Founded in 1951 to promote dialogue and cooperation in a world divided by the Cold War

Currently the world leading space advocacy body

Established to encourage cooperation, share knowledge, promote international development and ...

*Connecting @ll Space People*

- 71 Countries
- 407 Member Organizations
- 72 Universities
- 148 Industries
- 45 R&D
- 49 Space Agencies
- 6 Museums
- 87 Associations
- 13 Africa
- 16 Oceania
- 23 Latin America and the Caribbean
- 85 Asia
- 198 Europe

INTERNATIONAL ASTRONAUTICAL FEDERATION
For us, the people working in the space community, we believe that when we come together and collaborate as one planet Earth, we all learn, grow and connect with each other, to realize our fullest potential. Because all voices matter and every idea counts.

The International Astronautical Federation (IAF) was founded in 1951 to promote dialogue and cooperation in a world divided by the Cold War and since then it has become the world leading space advocacy body. This huge success lies in the core structure of the federation: the IAF is led by its members for the members. We are making a difference worldwide because we are connecting members from all over the world into one place: the IAF.

Following our motto “Connecting All Space People” and our vision of “A space-faring world cooperating for the benefit of humanity”, the Federation is advancing knowledge about space, and supporting the development and application of space assets by promoting global cooperation. For the past 70 years, the IAF has been actively encouraging the development of space activities for peaceful purposes and supporting the dissemination of scientific and technical information related to space.

All these achievements have been possible thanks to the incredible work and commitment of our members. To facilitate the connections among us, please scroll through this booklet. You will find out who is behind the greatest space federation of all leading space agencies, industries, research institutions, universities, societies, associations, institutes and museums worldwide.

Contact us and find out how to join us!
First of all, I would like to thank you for being an active member of the International Astronautical Federation. I believe that every member contributes directly to the growth and success of the IAF.

For people like us, who have dedicated their entire career to Space, the IAF has a fundamental importance, that is represented by our members, the backbone of this Federation. The IAF’s achievements in supporting international cooperation over the past seven decades have been exceptional and as of today the Federation continues to build one of the world’s largest networks of space experts and decision-makers.

This booklet is an appreciation to you, IAF members, who have helped to carve out the special place that the IAF has now. I hope that you are as proud as I am to be part of this community and I invite you to share your experience as members of the IAF all around you.

For my part, during my past experience as President of the IAF and also today as Honorary Ambassador, I have had the honour to represent this Federation and to see it grow over the years. I am now more eager than ever to work to ensure that our Federation receives the worldwide recognition and appreciation it deserves. I am looking forward to supporting the IAF at any meeting that I will be attending in my other capacities and I am thrilled to dedicate my energies to further elevate the IAF’s name and position in the international arena, with the support of all of you!

I hope that you will enjoy scrolling through this booklet!
It is my great pleasure, as the IAF Vice President for Global Membership Development, to present to you this brand-new publication from the International Astronautical Federation (IAF).

Since its founding in 1951 the IAF has put its best efforts in developing a network between space organizations all over the world, overcoming the walls and separations that were seemingly in place at the time.

While those days have passed, the need to guarantee a platform where strong relationships and collaborations between countries can flourish is still much needed.

Over the years, many different organizations have joined us in our shared goal, and become integral pillars of the Federation, which now counts more than 400 members from 71 different countries. The IAF Membership continues to grow every year, in line with our objective to bring space to all.

We have launched the Membership Handbook for this reason, giving every member further visibility of the community that they are a part of. We hope this will encourage and create further opportunity for our members and the general public to reach out to those listed and get in touch with every IAF member. Thus, offering an additional opportunity to get to know your potential partners better.

In addition to the opportunity to connect across our platforms, we provide a wide range of different benefits to all the IAF member organizations: from international visibility, to public acknowledgment of their achievements and success; from economic benefits, to the chance of truly shaping the conversation about space. Should you wish to receive further information, please, do not hesitate to get in touch with the IAF Secretariat.

We do hope that this new tool will support each one of you to gain even more in terms of networking opportunities, and we hope that with its distribution online and at our events you will gain access to new potential partners.
A9C Capital WLL – Business Consultants & Technology Advisors is a Bahrain-based company founded in 2008 by German businessmen and scientists.

The company focuses on bringing small and medium technology companies from all over the world and in particular from Europe together with partners and investors from the Gulf countries. The scope of work comprises Technology Advisory, Development and Management of Technology Projects and Private Equity Investments in technology firms.

One of technology sectors which A9C Capital is focusing on is aeronautics and astronautics. It is part of A9C Capital’s mission to bring substantial space activities into the Gulf region, both scientific and business activities.

ACCESS E.V.

Member since: 2012

Mail: welcome@access-technology.de
Web: http://www.access.rwth-aachen.de

Access is an independent research centre associated with the Technical University of Aachen (RWTH) in Germany. 50 engineers and scientists are pooling a diversity of individual skills to merge both scientific and technological know-how in materials and processes with a special focus on metallic materials and casting processes. Excellence in science demonstrated in application is the leitmotiv! High end products for turbo machinery are outstanding examples for this approach. Scientific expertise and technological skills are transferred into best practice examples.

ACCESSAEROSPACE LLC

Member since: 2018

Mail: info@accessaerospace.com
Web: https://accessaerospace.com/

AccessAerospace LLC is the online marketplace for spacecraft, launch vehicle hardware, components, and system software, as well as collectibles from past space missions.

AccessAerospace LLC provides a one-stop portal for sales and purchase of excess inventory, overruns, cancelled program space hardware, and needed parts for active space systems. It provides the community with a much-needed marketplace for space hardware salvage, tailored to aerospace professionals, universities, and collectors.

Most importantly, this marketplace has been structured in collaboration with experts in regulatory compliance - including ITAR and EAR - to help identify qualified buyers.

ADRIATIC AEROSPACE ASSOCIATION – A3

Member since: 2018

Mail: info@a3space.org
Web: https://a3space.org/

Adriatic Aerospace Association was established in December 2017 as a non-governmental, non-profit and independent association with the aims to:

- foster research and development in aerospace sector,
- catalyse project developments as regional point-of-contact,
- encourage and support capacity development and knowledge transfer through academic and professional education and counselling,
- regional cooperation.

The founding members are research institutes, university departments, technology companies and individual specialists in related fields of science and technology. The Association’s main objectives comprise facilitation of research and development of aerospace technologies, passenger and cargo transport, pilot training, aerospace facilities (airports and spaceports), capacity development, knowledge transfer, and business development in the field of aerospace technologies.
The Adriatic Aerospace Association extends a considerable capacity in related fields of technology and science, through expertise of its members, among them a company provider of complex tailor-made software solutions and all-around software support for the satellite industry. So far it delivered over 100 projects to the international market, the customers that include international space and global humanitarian agencies. Individual and corporate members of the Association have developed capacity in artificial intelligence, control systems, satellite navigation, space weather, data science for location intelligence. In research and development, the A3 members operate centres exploring and developing advanced graphene based materials, advanced energy storage elements, advanced materials for solar cell applications, and advanced materials for various types of sensors. The A3 technology experts work on satellite and rocket engine designs and manufacturing. Several A3 members are associated with NASA, Airbus and DLR thus providing the A3’s strong link with the leading organisations in the field of aerospace technologies. The segments of aerial traffic control systems, UAV development for targeted scenarios of utilisation, airport planning and aircraft structure simulation are covered by the A3’s aviation related experts. We have a good base of various experts to workout our plans and moderate numbers of firms that could realize them, which is an invitation for partnership on those projects.

**ADVANCED INSTRUMENTATION AND TECHNOLOGY CENTRE (AITC)**

*Member since: 2012*

*Mail: media@anu.edu.au*


The Advanced Instrumentation Technology Centre (AITC) is a new $25M precision manufacturing and test facility in Canberra, Australia. The AITC provides increased capability for Australia in the development of high performance instrumentation, precision manufacturing, rapid prototyping, and the test and evaluation of small spacecraft.

The AITC is creating a new national centre for the Australian space community, connecting researchers and industry partners and providing a state-of-the-art payload development and systems integration resource, including: High Bay Integration Hall; Cleanrooms (Class 10,000); Thermal Vacuum Chamber; Vibration and Shock Test; Electromagnetic Characteristics Test; Optical Test and Metrology and more.

The AITC is designing and building one of the first instruments that will be used with the Giant Magellan Telescope (GMT), the GMT Integral-Field Spectrograph (GMTIFS) and developing the Laser Tomography Adaptive Optics (L TAO) subsystem for the project.

The AITC was a consortium member in five successful Australian Space Research Program (ASRP) grants: Automated Laser Tracking of Space Debris; GRACE Follow-on Mission; Antarctic Broadband; The Australian Plasma Thruster Project and; The Greenhouse Gas Monitor project.

The AITC has a strong commitment to the development of a future technical workforce and provides training opportunities for professionals and students.

**AED CLUSTER PORTUGAL**

*Member since: 2009*

*Mail: proespaco@mail.telepac.pt*

*Web: [https://www.aedportugal.pt/en/](https://www.aedportugal.pt/en/)*

AED Cluster Portugal (AEDCP) is the Portuguese Cluster for the Aeronautics, Space and Defence Industries and was created in 2016, as a private non-for-profit organization. In 2017, we received the label of “Strategic National Competitiveness Cluster” for Aeronautics, Space and Defence from the Portuguese Government.

Involving already more than 70 entities established in Portugal, the Cluster gathers the main stakeholders from the three sectors, being able to act as an entry point and a one-stop-shop in Portugal, for all national and international players.

AED Cluster Portugal strategic objectives lie within four main building blocks- Funding and Regulatory, People and Competences, Innovation and Value, Markets and Opportunities -, with a clear mission to promote the advancement and consolidation of Portugal as an international reference on the Aeronautics, Space and Defence global industries.
AEROJET ROCKETDYNE
Member since: 2007
Mail: comments@aerojet.com
Web: http://www.aerojet.com/

Aerojet, a GenCorp Inc. (NYSE: GY) company, is a major space and defense contractor specialising in missile and space propulsion, and defense and armaments. Since the company was founded in 1942, it has led the way in the development of crucial technology and products that have kept America strong and furthered human’s exploration of space. Aerospace and Defense — includes the operations of Aerojet-General Corporation (Aerojet) which develops and manufactures propulsion systems for defense and space applications, armament systems for precision tactical weapon systems and munitions applications.

We are one of the largest providers of such propulsion systems in the United States (U.S.) and the only U.S. company that provides both solid and liquid propellant based systems. Primary customers served include major prime contractors to the U.S. government, the Department of Defense (DoD), and the National Aeronautics and Space Administration (NASA). (2008 Annual report). Solid rocket motors, liquid rocket engines, airbreathing propulsion, electric propulsion, warheads, fire suppression, speciality metals, composite structures.

Aerojet is a leader in the development and manufacture of aerospace propulsion systems; precision tactical weapon systems; and armament systems, including warhead and munitions applications. Aerojet is the second leading provider in both the solid and liquid propulsion market areas, as well as the number one provider in the tactical segment area of solid propulsion. Long recognised as a developer of new technology, Aerojet continues to meet emerging defense and aerospace propulsion needs and is well-positioned to benefit from the increased focus on and funding of defense and space programs. Aerojet’s capabilities include a full spectrum of aerospace and defense products.

AEROSPACE INDUSTRIES ASSOCIATION
Member since: 2019
Mail: info@aia-aerospace.org
Web: https://www.aia-aerospace.org/

AIA represents nearly 340 high-technology manufacturers and suppliers across every sector and tier of the Aerospace and Defense industry. Our agenda is driven directly by the CEOs and senior managers of our member companies. Together, we work to shape regulatory and legislative policies and create networking opportunities through meetings, international air shows and an extensive network of councils, committees and working groups.

AEROSPACE RESEARCH INSTITUTE
Member since: 2007
Mail: info@ari.ac.ir
Web: http://www.ari.ac.ir

The Aerospace Research Institute (ARI) of Iran, affiliated to the Ministry of Science, Research and Technology of Iran, was founded in 1999 in fulfillment of research duties of the ministry, and in response to national demand for research in the field of aerospace science and technology.

The principle objectives of ARI can be summarized as follow:

- Identification and introduction of aerospace technologies and cooperation with related national and international institutes and organizations to access the latest research achievements in the relevant fields
- Promotion of aerospace research activities and providing the appropriate bed to cooperate with national and international educational and research institutes to increase the quality of research activities.
AEXA AEROSPACE LLC

Member since: 2016
Mail: fernando@aexa.us
Web: http://www.aexa.us/

Aexa Aerospace LLC, a small business providing engineering services in telecommunications, software and propulsion.

Quality Management Systems Development: Perform gap analysis of space systems development quality management against AS9100C requirements. Develop and maintain processes that meet AS9100C requirements.

Materials Research in Space: Management and Operations Consultation to develop and maintain processes for managing principal investigator research assignments to the Materials International Space Station Experiment (MISSE), the first experiment mounted externally on the International Space Station (ISS). This research investigates the effects of long-term exposure of materials to the harsh space environment.

Telecommunications: Startup of satellite systems. To include defining scopes of work, acquisition needs and terminal requirements. As we did with the Mexsat system.

Software systems: Operation of software systems, artificial intelligence software, data mining, and cybersecurity.

Engineering Services: Requirements definition and analysis for the aerospace industry using trained and qualified engineers, like an EVA borescope, and EVA display.

International Collaboration: Worked with space agencies of 36 countries in the creation of the Mexican Space Agency. Developed other international collaboration programs, from educational to government uses, like the International Air and Space Program (IASP).

Small Propulsion Systems: On development of patented concepts in propulsion, such as the use of anti-matter energy to propel spacecraft, as well as the use of magnetic levitation systems for launching platforms.

AGENCE SPATIALE ALGÉRIENNE (ASAL)

Member since: 2002
Mail: info@asal.dz
Web: http://www.asal.dz/


L’Agence est l’instrument de conception et de mise en œuvre de la politique nationale de promotion et de développement de l’activité spatiale sur les plans technologique, scientifique et applicatif en vue et de contribuer au développement économique, social et culturel du pays et d’assurer la sécurité et le bien-être de la communauté nationale. Elle est dotée d’un conseil d’administration composé des représentants de 15 départements ministériels; d’un conseil scientifique composé d’experts dans les domaines des technologies spatiales.

AGENCIA ESPACIAL MEXICANA (AEM)

Member since: 2011
Web: http://www.aem.gob.mx/

The Agencia Espacial Mexicana’s objectives are to:

- Execute Mexico’s Space Policy through the elaboration and application of the National Space Activities Program, promote the effective development of space activities to widen the capacities of Mexico in the branches of education, industry, science and technology in space matters.
- Develop the scientific-technological capacity of Mexico through the binding together of the sectors involved in all the fields of space activities that make it possible to act autonomously in the field.
- Promote the development of space systems and the mediums, technology and infrastructure needed for consolidation and autonomy of this sector in Mexico.
• Facilitate the incorporation of the sectors related to this policy and particularly the participation of the production sector, in order that it acquires competitiveness in the markets of space goods and services.

• Promote an active international cooperation through agreements that are beneficial to space activities and that allow the active integration of Mexico to the international Space Community.

• Serve as an instrument of the head of the Mexican state in this sector, in order to strengthen sovereignty.

• See after the national interests and of security, through a strategy that puts together scientific and technological knowledge, efficiency, experience, and capacity to coordinate among the public entities of the Federal Public Administration.

• Guarantee and preserve the public interest and the protection of the population, as fundamentals of the development, security, peace and prevents the problems of national security in Mexico.

• Receive from public, private and social entities, proposals and recommendations in space areas for their study and consideration.

AGI
Member since: 2020
Web: https://www.agi.com/

AGI develops mission-level software for engineers, operators, and analysts working on complex land, sea, air, and space systems. Our modeling, analysis, and visualization tools, coupled with legendary customer support, help aerospace and defense organizations make critical decisions faster, more accurately, and in an operational context.

AGRUPACIÓN ASTRONÁUTICA ESPAÑOLA
Member since: 1951
Web:

AIRBUS DEFENCE AND SPACE GMBH
Member since: 2008
Mail: andrew.stroomer@airbus.com
Web: http://www.astrium.eds.net/en/space-company/Locations/portsmouth

Europe’s central location for manned spaceflight activities, this long-established space industry site is located in the north of Germany. It houses the development and integration under ESA contract of the Columbus Orbital Facility (COF), Europe’s major contribution to the International Space Station, and will be in charge of the Columbus operations. It furthermore serves as a development and production site for the Ariane 5 upper stages. Further core competencies are the development of re-entry systems and the development of reusable launch vehicles.

AIRBUS DEFENCE AND SPACE NETHERLANDS B.V.
Member since: 1987
Mail: info@dutchspace.nl
Web: http://www.dutchspace.nl/Default.asp?LangType=1033

Airbus Defence and Space Netherlands B.V. is the main player of the Dutch space industry. Over the last thirty years the company has built up a comprehensive package of expertise, services and products in the context of its space activities in segments like earth observation, telecommunication, space science and space infrastructure. Airbus Defence and Space Netherlands B.V. applies its capabilities and technologies in non-space segments as well, like defense and civil industry. Airbus Defence and Space Netherlands B.V. is Europe’s leading independent solar array manufacturer for spacecraft. The solar array program ranges from telecommunication and science to earth observation applications.
Airbus Defence and Space is a division of Airbus group responsible for defense and aerospace products and services. Airbus Defence and Space was formed in January 2014 from the former EADS divisions Airbus Military, Astrium and Cassidian.

Airbus Defence and Space is present in dozens of countries on all continents.

The Alma Mater Studiorum, the oldest university in the Western world, paves the way for innovation through an increasingly rich programme catalogue, cutting-edge research and a constant and increasingly broad international perspective.

Since its origins in 1088, Alma Mater has been student-centred hosting prominent figures from science and the arts. Based in five campuses (Bologna, Cesena, Forlì, Ravenna, Rimini), with a branch in Buenos Aires, it offers a teaching catalogue diversified and tailored to the needs of present-day society: over 200 degree programmes among its 33 Departments and 11 Schools are offered to over 81,000 students. 5,000 graduates are enrolled in PhDs and 3rd cycle programmes.

As a comprehensive research university Alma Mater invests in the multidisciplinary cross-cultural approach and in the inseparable connection between research and teaching. One of the most active universities leading and participating in European research and academic cooperation projects, Bologna has formed knowledge alliances with industry and public/private organizations. It is a hub of international networks. Beyond its close European links, it enjoys multiple connections with America, Africa, Asia and Australia.

Formed in 1954, the American Astronautical Society (AAS) is the premier independent scientific and technical group in the United States exclusively dedicated to the advancement of space science and exploration.

We strongly support the U.S. Space Exploration Policy, and are members of the Coalition for Space Exploration and the Space Exploration Alliance. We are also committed to strengthening the global space programme through cooperation with international space organisations.
We strive to fulfill these goals through service to our members: engineers, scientists, administrators, institutions and corporations on the cutting edge of the nation’s space activities. In addition, many of us support these activities as military space specialists, physicians, lawyers, educators, historians, journalists, artists and other professionals.

The AAS has long been recognised for the excellence of its national meetings, technical meetings, symposia and publications as well as for the impact these have had on shaping the U.S. space programme. Members have opportunities to meet with leaders in their field and in related disciplines, exchange information and ideas, discuss career aspirations and expand their horizons.

The AAS has materially aided our nation in addressing future challenges by sponsoring professional, scientific and engineering meetings and by maintaining an effective publications programme. The strong and active participation of corporate members, together with the support of major elements of the space industry, have enabled the Society to remain at the forefront of advancing the astronautical sciences.

AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS (AIAA)

Member since: 1952
Mail: custserv@aiaa.org
Web: http://www.aiaa.org/

Created in 1963 by the merger of the American Rocket Society (founded in 1930 as the American Interplanetary Society), and the Institute of the Aerospace Sciences (established in 1933 as the Institute of the Aeronautical Sciences), the American Institute of Aeronautics and Astronautics (AIAA) is more than 30,000 engineers and scientists from 88 countries dedicated to the global aerospace profession. AIAA convenes five yearly forums, publishes books, technical journals, and Aerospace America, hosts a collection of 150,000 technical papers, develops and maintains standards, honors and celebrates achievement, and advocates on policy issues. AIAA serves aerospace professionals around the world—who are shaping the future of aerospace—by providing the tools, insights, and collaborative exchanges to advance the state of the art in engineering and science for aviation, space, and defense.

ANDØYA SPACE CENTER

Member since: 2000
Mail: info@andoyaspace.no
Web: http://www.rocketrange.no/

Andøya Space Center is located on the island Andøya, 2 degrees north of the Arctic Circle, in northern Norway. Andøya has its own airport capable of handling all sizes of aircrafts. Several daily connections to Tromsø and Bodø makes it convenient getting to/from Oslo.

Andøya Space Center supports sounding rocket and balloon operations both at Andøya and at Svalbard, and is host to a large array of ground based scientific instruments. Andøya Space Center also owns and operates the ALOMAR lidar observatory located at the top of the nearby mountain – Ramnan (380 m above sea level). Their clients include ESA, NASA, JAXA as well as national and international universities and institutes.

The range employs electronic, explosive, and safety experts among other specialists and an administration. Andøya Space Center is a limited company owned 90% by the Department of Trade and Industry, and 10% by Kongsberg Defence Systems. Andøya Space Center is a ISO 9001:2008 certified company.

ARIANEGROUP SAS

Member since: 2017
Web: https://www.ariane.group/fr/

ArianeGroup SAS is mainly active in all activities linked directly or not with the design, development, manufacturing and sales of launchers, of ground infrastructures, of command and control systems (C3I), of propulsive systems for satellites or for space vehicles or of launchers subsystems, products or equipment for civil and military application.
Arianespace was founded in 1980 as the world’s first satellites launch company. Its shareholders are French space agency CNES, Astrium and all the European space companies, representing 10 European countries. On 1 October 2012, the company had 315 employees, at corporate headquarters in Evry, at the Guiana Space Center (CSG), launch site for Ariane 5, Soyuz and Vega, and at local offices in Washington DC, Singapore and Tokyo. Since its creation, Arianespace has signed contracts with 80 customers and carried out 210 Ariane launches, launching more than half of the commercial satellites now in service worldwide, 28 Soyuz launches (3 at CSG and 25 at Baikonur via its subsidiary, Starsem) and the first launch of Vega. In 2011, Arianespace posted revenues of 1,013 M€.

The purpose of the association is the procurement and implementation of basic and applied research and development activities, especially in the following areas:

- Philosophical research
- Legal research
- Engineering / technical research

The association is mainly active in the three areas mentioned above. Philosophical research extends in particular to the field of philosophical consideration with regard to extraterrestrial life in relation to new human life forms on and outside planet Earth. Research and action ethics in relation to religion and society. Research and development of technical and socio-economic influences on the individual by the aerospace industry. The jurisprudential research extends in particular to the field of possible and necessary regulations of research, technology, science and society. Development of new social models and contract constructs.

The mission of the Asher Space Research Institute (ASRI) is to advance education, science, technology and engineering in all space related fields.

The ASRI operates with a broad national perspective. It fosters interdisciplinary work, and collaboration of Israeli researchers from all universities and agencies as well as industry. The ASRI also establishes collaborative projects with other countries.

The ASRI was established in 1984. Its members are professors in five academic departments of the Technion (Physics, Aerospace, Mechanical and Electrical Engineering and Computer Sciences). It has a technical staff involved in the Research and Development of small satellites. The Institute is managed by a Director, under the guidance of a Management Committee, whose members are the Vice President for Research of the Technion, the Deans of Physics and Aerospace Engineering and the Institute Director.
L’Association Aéronautique et Astronautique de France est la Société Savante française, carrefour potentiel des compétences qui a la mission de :

- Rassembler des personnes physiques et morales concernées par les sciences et techniques de l’Aéronautique et de l’Astronautique, pour des raisons professionnelles ou pour des raisons personnelles de curiosité, de culture, de passion – Distinguer parmi ses membres les meilleurs spécialistes au niveau international
- Favoriser des contacts fréquents avec d’autres membres, dans sa spécialité ou hors de sa spécialité, tout particulièrement pour les plus jeunes
- Développer une importante source d’informations spécialisées
- Constituer une tribune qui permette à ses membres de faire connaître leur point de vue et leurs travaux
- Représenter l’ensemble de ses membres auprès d’autres sociétés scientifiques et techniques françaises ou étrangères, auprès des fédérations aérospatiales.

Son activité est en grande partie liée à celle de l’industrie et de la recherche, c’est-à-dire en France à celle des industries aéronautiques, spatiales et des hautes technologies associées. L’AAAF est aussi en relation étroite avec les services et organismes d’État. Cependant, elle offre pour la genèse et la diffusion des idées une voie distincte de l’industrie et des instances gouvernementales, celle d’une société savante. Par les moyens d’expression offerts à ses membres, qu’ils soient ingénieurs, techniciens, chercheurs ou étudiants, l’AAAF leur permet de faire connaître leurs travaux, leurs points de vue, leurs productions ou leurs aspirations.
ASSOCIAZIONE ITALIANA DI AERONAUTICA E ASTRONAUTICA (AIDAA)
Member since: 1951
Mail: info@aidaa.it
Web: http://www.aidaa.it/

ASTRONAUTIC TECHNOLOGY SDN BHD
Member since: 2000
Mail: info@atsb.my
Web: http://www.atsb.my

ATSB®, a wholly owned company by the Malaysian government under the Minister of Finance Inc. supervised by Ministry of Science, Technology and Innovation with the mandate primarily to develop space and satellites technology focusing in research and development employing advanced and innovative technologies for the space industry. Perpetual effort with synergy from partners both locally and abroad for commercialisation pursued with unique selling proposition to gain competitive advantage that provides value-added applications for our customers globally. ATSB® aspires to be at the forefront of space and related technology development whilst creating value for the advancement of society.

ASTRONAUTICAL SOCIETY OF INDIA
Member since: 1958
Mail: asi@leos.gov.in
Web: http://www.asindia.org

The Astronautical Society of India (ASI) was set up in 1990 to foster the development of astronautics in the country. ASI is engaged in the dissemination of technical and other information related to astronautics by conducting technical meetings, bringing out technical publications and organising exhibitions. The society is also playing an active role to promote the interests of other developing countries in the field of astronautics through the International Astronautical Federation, Paris, in which the ASI is a voting member. ASI has, on its roll, eminent personalities in the field of astronautics as Honorary Fellows/Fellows. A Programme Council consisting of elected Honorary Fellows/Fellows with Chairman, Space Commission, as its Ex-officio Chairman, oversees the functioning of the Society.

An Executive Council consisting of 9 members including the President and Vice President, Executive Secretary and Treasurer, elected by the General Body, looks after the day-to-day administration of the society. The Aryabhata Award and the four ASI awards are instituted by ASI, and also four ASI-ISRO awards, Best Women Scientist award, Young Scientist award and Team achievement awards are instituted by ASI and ISRO jointly are aimed at recognizing the talented Indian individuals who have made significant contributions in fostering astronautics in India.
Astrosat is a ‘satellite as a service’ company focusing on delivering space-based services primarily to the government and large scale private sector organizations. Their prime focus centers around the RAPID delivery platform from which they deliver Earth Observation based products that assist in decision making during and post natural and economic disaster events. Their prime clients for this service are currently in South East Asia and Central America, but the service is set to expand into many more regions and territories.

Their other prime focus for the technology is in its use for large scale multi-national organizations to gain enhanced situational awareness that improve their own products and services. Their clients in this area range from large scale commodities and infrastructure operators, to the energy and security sectors.

Their products have one prime aim – to make their end-user clients more effective and efficient at what they do.

Astroscale

ASTROSAT LIMITED
Member since: 2016
Web: https://www.astrosat.space/

Astroscale is a Singapore based private space company, which mission is to address the growing threat of space debris by incubating Active Debris Removal (ADR) solutions and on-orbit services, and at the same time by raising public awareness to space environmental issues. In order to make space more approachable for global citizens, the company actively participates in different public outreach events, provides technological support and the global alliance necessary for private companies to be involved in space missions.

AuSpace Pty Ltd.

AUSPACE PTY LTD.
Member since: 2016
Mail:
Web:

AuSpace is a systems integrator with a Machine to Machine (M2M) communications specialisation, focused on providing a platform for organisational assurance and productivity efficiencies, through enabling systems for the integrated management of lone workers, vehicles and other assets.

Australian Space Agency

AUSTRALIAN SPACE AGENCY
Member since: 2011
Mail: enquiries@space.gov.au
Web: http://www.space.gov.au

The Australian Government established the Australian Space Agency (the Agency) as an ongoing entity on 1 July 2018 to effect long-term transformation and growth of Australia’s space industry.

The Agency is working to transform and grow a globally respected Australian space industry to lift the broader economy, and inspire and improve the lives of Australians.

Space offers huge economic and job opportunities, with new technologies also improving life here on Earth. Inspiring the next generation to take up STEM activities, grow career pathways and collaborate across industry, government and academia fuels our goal to triple the size of Australia’s space industry to $12 million dollars and create up to 20,000 new Australian jobs by 2030.

The Agency is the front door for Australia’s international engagement on civil space and operates as the national priority setting mechanism for the civil space sector. The Agency ensures that Australia’s civil space activities contribute to productivity and employment across the Australian economy, secure new knowledge and capability, and inspire all Australians.

The Agency is responsible for whole-of-government coordination of civil space matters and is the primary source of advice to the Australian Government on civil space policy. Under this broad mandate, the Agency has six primary responsibilities:
• Providing national policy and strategic advice on civil space sector
• Coordinating Australia’s domestic civil space sector activities.
• Supporting the growth of Australia’s space industry and the use of space across the broader economy.
• Leading international civil space engagement.
• Administering space activities legislation and delivering on our international obligations.
• Inspiring the Australian community and the next generation of space entrepreneurs.

To help grow the economy, the Agency will focus on areas of advantage for Australia including:
• Communication technologies and ground stations
• Space situational awareness
• Earth Observations
• Position, Navigation and Timing (e.g. GPS)
• Remote asset management
• R&D and leapfrog technologies
• Future areas like space medicine and space service

AUSTRIAN RESEARCH PROMOTION AGENCY

Member since: 1977
Mail: office@ffg.at
Web: http://www.ffg.at/

The Austrian Research Promotion Agency (FFG) is the national funding agency for industrial research and development in Austria. As a “one-stop shop” offering a diversified and targeted programme portfolio, the FFG gives Austrian businesses and research facilities quick and uncomplicated access to research funding. The FFG was founded on 1 September 2004 (pursuant to the FFG Act on establishing a research promotion agency, Federal Law Gazette I No. 73/2004).

The FFG is wholly owned by the Republic of Austria, represented by the Federal Ministry for Transport, Innovation and Technology (bmvi) and the Federal Ministry of Economy, Family and Youth (BMWFJ). As a provider of funding services, however, the FFG also works for other national and international institutions.

AUSTROSPACE

Member since: 2014
Web: http://www.austrospace.at/

AUSTROSPACE, the association of Austrian Space Industries and research Associations, is a non-profit organization focusing on:

Comprehensive information about Austrian space activities

Representation of common interests of Austrian suppliers and users of Space technologies vis-à-vis Austrian authorities and international organizations.

The members of AUSTROSPACE account for the predominant part of Austrian contributions to space programs and cover a broad spectrum of space technologies and applications in the areas of telecommunications, navigation, earth observation, meteorology, space transportation, and space science.

AXIOM SPACE, LLC

Member since: 2017
Web: https://www.axiomspace.com/

Axiom’s international commercial space station will stimulate growth of the low Earth orbit (LEO) user community by providing additional and expanded services at ISS and allowing a seamless transition to the Axiom station when ISS is retired. This Axiom Space commercial initiative will allow NASA to realize its mandate to transition the multibillion dollar LEO market to the private sector.

Axiom’s primary offerings under this program, both aboard the station and on Earth’s surface will include:
* National Human Spaceflight Programs
* Space Tourism for Private Citizens
* On-Orbit Microgravity Research and Manufacturing
Azercosmos, the national satellite operator of Azerbaijan, established with the mission to connect people around the world, provides satellite-delivered telecommunication and Earth observation services to its customers in the public and private sectors.

Azercosmos operates 3 satellites. The first, Azerspace-1, is a telecommunication satellite positioned at 46° East longitude and has a wide coverage of Europe, Africa, the Middle East, and Central Asia. Manufactured by Orbital Sciences Corporation and launched by Arianespace, Azerspace-1 is equipped with 36 transponders: 24 in C-band and 12 in Ku-band.

Under the terms of a strategic partnership with Airbus DS, in 2014, Azercosmos took over the rights to operate and commercialize SPOT-7/Azersky, a high resolution optical Earth observation satellite.

To enhance the coverage area and spectrum of services, in 2018, Azercosmos launched its second telecommunication satellite Azerspace-2. The satellite, manufactured by SSL and launched by Arianespace, is positioned in geostationary orbit at 45° East longitude.

To conduct scientific research in the field of space and astronautics, a Research and Development Center functions within Azercosmos. The Center develops various software for the satellite operations, conducts research on automatic recognition of objects and changes through systems built on neural networks, artificial intelligence solutions and related systems.

Azercosmos annually implements the Stimulation of Earth Observation for Sustainable Development project. Within this project, both independent researchers and organizations are provided with satellite imagery obtained via Azersky to carry out their scientific research.

To identify innovative startup projects and products in space and related industries, Azercosmos conducts the NewSpace Business Accelerator Program that provides technological, industrial, and business mentoring and offers seed funding for early-stage space startups.

Azercosmos was one of the partners to hold an International Innovation Contest ActInSpace Hackathon, organized by CNES and ESA, in Baku in 2018. The representatives of the agency were participating in the competition as mentors, experts and the members of the Jury. Furthermore, one of the startup teams got a chance to do an internship at the Research and Development Center of Azercosmos.

To share its experience and raise awareness for satellite projects in the country, Azercosmos, together with the Ministry of Education of the Republic of Azerbaijan, annually holds the CanSat Azerbaijan model satellite competition. The first rocket modeling festival in the country – Rocketry Azerbaijan, implemented within CanSat competition in April 2019, will be held by agency annually as well. Moreover, in October 2019, Azercosmos is planning to hold the NASA Space Apps Challenge in Azerbaijan, aiming to engage coders, scientists, designers, technologists and space enthusiasts in developing innovative solutions to NASA’s toughest challenges.
BMSTU has 19 departments providing full-time education. University provides postgraduate and doctorate programs and has two affiliated secondary schools. More than 19,000 students study in BMSTU and specialties cover all range of modern machine and instrument building. More than 320 doctors of science (Russian degree higher than PhD) and 2000 candidates of science (similar to PhD) teach and do research in BMSTU. Main parts of the University are eight scientific and educational divisions. Each of them consists of scientific and educational branch. Several branch departments also exist, they deal with particular fields of industry. They are based on big factories and organizations, situated in Moscow, Moscow suburbs (Reutov, Krasnogorsk and Korolev) and in Kaluga. BMSTU has unique experience of teaching hearing-impaired students since 1934.

Beihang University (formerly Beijing Institute of Aeronautics) or BUAA for short, was founded on 25 October 1952 out of the merger of the aeronautical departments of Tsinghua University, Beiyang University, Amoy (Xiamen) University, Sichuan University, Yunnan University, Northwest Institute of Technology, College of Engineering, North China University, and Southwest Aeronautical Institute.

Situated in the capital in the center of Zhongguancun Science Park, next to China’s National Olympic Center, with an area of over 100 hectares, BUAA is China’s first university of aeronautical and astronautical engineering. Since its founding BUAA has been one of the key universities given priority for development.

In the new century and millennium, BUAA was officially listed in China’s Action Plan for the Revitalization of Education in the 21st Century. Over the past 50 years BUAA has provided about 80,000 professionals of high caliber in various disciplines for the country. At present, the university comprises 17 schools and 6 departments, covering such diverse fields as science, technology, liberal arts, law, economy, management, philosophy, foreign languages and education. Total faculty and staff number more than 3300, including 10 academicians of either the Chinese Academy of Sciences or the Chinese Academy of Engineering Sciences, over 1400 full or associate professors, and 290 supervisors of doctorate programs.

BUAA has a total enrolment of over 26,000, including more than 1300 doctorate candidates, over 5000 master candidates, more than 14,000 in 4 or 2 year undergraduate programs, and about 300 overseas students. It has 42 research institutes or interdisciplinary research centers, 11 key disciplines of the national level, and 89 laboratories (including 4 national key laboratories, 5 national specialized laboratories, and 12 provincial or ministrial-level key laboratories.)

In recent years BUAA has ranked among the foremost in China in terms of funding for scientific research. The university is equipped with all ancillary facilities. The library, with an area of over 24,000 m², has a collection of over 1.2 million books. BUAA’s sports facilities include a modern gymnasium and a sports ground with sophisticated equipment. BUAA has become one of the China’s important bases for scientific and technological innovation and quality education of high-level personnel.

bavAIRia e.V. is responsible for the management of the Bavarian Cluster Aerospace comprising about 300 companies and institutions. It is engaged in the fields of Aeronautics, Space & Space Applications. Our focus:

- Satellite navigation, earth observation, satellite communication, space technologies
- Space-based as well as integrated services and applications
- We offer you: • our platforms, facilitating interaction among different actors.
- • our contacts, providing access to our networks and supporting international cooperation.
- • our know-how in enabling knowledge and technology transfer.

We are committed, resourceful, enthusiastic, innovative and experienced and can also provide customized support for issues related to aerospace.

bavAIRia e.V. is your partner in Bavaria’s aerospace environment.
The celebration of BUAA’s 50 eventful years signifies an even more promising future. BUAA has evolved into an open, multi-disciplined, research-oriented university of engineering science and technology with an emphasis on aeronautical and astronautical engineering. At present the university is being developed with the joint efforts of the Commission of Science, Technology and Industry for National Defense, the Ministry of Education, the Municipal Government of Beijing, and the Chinese Academy of Engineering Sciences. Conscious of its role in invigorating China through science and education and pursuing its traditional style of “hard work, simple living, diligent learning, all-round development and courageous innovation,” BUAA is deepening the reform in education and striving to realize its goal of becoming a “top-rate university in China, well-known throughout the world.”

BEIJING FUTURESPACE
SPACE TECHNOLOGY
INSTITUTE

Member since: 2020
Mail: contact@futurespace.com
Web: https://www.futureaerospace.com/en/

In 2015, Futurespace initiated the first space VC fund in China and has invested in numerous new space start-ups covering the entire space value chain. Throughout the years, drawing on our expert knowledge and industry resources, Futurespace has become a leading new space industry group company in China, providing comprehensive industry research, strategic consulting, incubation and investing, and organizing annual international space conference to facilitate the growth of the new space industry.

BEIJING INFINITE
EDUCATION INC.

Member since: 2019
Mail: service@itccc.org.cn

The International Teenager Competition and Communication Center (ITCCC) aims to introduce and develop high-quality educational products to foster students’ innovative abilities and skills in order to prepare them for the increasingly competitive world in the 21st century.

Every year approximately 20,000 students participate in ITCCC’s programmes. Our programmes in China include Botball Robotics Competition, RoboRAVE Robotics Competition, Future City, Future Space Scholars Meet, etc. Among them the most important programme is Future Space Scholars Meet.

Future Space Scholars Meet is an Aerospace Industry Simulation Programme for global teenagers supported by Belt & Road Aerospace Innovation Alliance, CSTNet, RCSSTEAP and ITCCC. It aims to promote aerospace education and elevate teenagers’ interest in deep space exploration.

Launched on April 24th, 2018, the 1st Future Space Scholars Meet (FSSM) was held on December 1st – 2nd. More than 400 teenagers from all over China gathered in Beijing to show their designs. This year they have worked on three different design tasks including CubeSat Payload Design, Lunar Habitat Design and Space Settlement Design, in the forms of paper, poster, physical model and presentation.

Through these activities, we are hoping to set up a bridge of communication and cooperation, promote aerospace education and enhance cross-cultural understandings among teenagers.

BEIJING INTERSTELLAR GLORY
SPACE TECHNOLOGY CO., LTD

Member since: 2020
Mail: ispace@i-space.com.cn
Web: http://www.i-space.com.cn/

The company has achieved three successful launches in less than two years. The first flight of our company was a suborbital rocket, the Hyperbola-1S, which was launched in 5 April 2018. This is the first rocket that was launched a private rocket company in China.
The second flight was a commercial sub-orbital rocket, Hyberbola-1Z, which was launched in 5 September 2018 from Jiuquan Satellite Launch Center, carrying three cubic satellites. The third flight was Hyberbola-1 Y1 which sent 2 satellites into orbit in 25 July 2019. This launch mission makes Beijing Interstellar Glory Space Technology Co., Ltd the first Chinese private company that send satellites into orbit successfully with high precision. At the same time, the company has already completed the 200s-full-system test of a reusable liquid oxygen/methane rocket engine in July 2019. Five more launch missions are planned in 2020, and intended contracts have been signed.

The company will develop medium and heavy reusable launch vehicles in the near future, provide launching services to global satellite customers.

Smart Satellite has signed a sales order with customer to launch a 6U satellite at the middle of year 2019 and the production is moving on smoothly now. The optical satellite is used for earth observation providing customer with tailored photo and video from space.

Meanwhile Smart Satellite is working on Synthetic Aperture Radar (SAR) satellite, whose earth observation data can be widely used for detecting shape changes of land, building, railway and bridge etc. at millimeter level. The planned Smart radar satellite constellation is going to change the way we look at our world from space.

BEIJING SMART SATELLITE TECHNOLOGY CO., LTD.

Member since: 2019
Web: http://www.smartsatellite.com/?l=en

About Us

1. SpaceD in an effort to promote public understanding of space
Beijing SpaceD Aerospace Application & Science Education Co., Ltd. is a company focusing on space science & technology education, outreach and satellite application. Working with space R&D teams and using various computer technologies, the company is aiming at promoting public understanding of space and technology in China and worldwide.

2. SpaceD works in diversified public-related space contexts
—Popular applications of micro-satellites
In large scale emergencies like earthquakes, we cooperate with media to cover news stories with first-scene satellite images.
Integrating flying satellites and user terminals, we work on building dynamic space science education systems in schools.
—Space science and technology education
We provide software and hardware systems for museums and science centers to simulate space activities.
Carefully designed space courses and activities help enrich school curriculum and family events.
—Space science communication
We’ve developed accounts of space stories on different social media platforms.
The Space Salon we organize offers a window for the public to learn space science, technology as well as events.

3. We Believe
The essence of science and technology is a way of life.
The aim of science education is not to make people complicated, but to restore human simplicity.
Romanticism, heroism and idealism acquired from space science and technology are more important than knowledge itself.
BEIJING SUNWISE SPACE TECHNOLOGY LTD.

Member since: 2012
Mail: sunwisespace@vip.sina.com
Web: http://www.sunwisespace.com/en/index.php?m=content&c=index&a=lists&catid=70

Beijing Sunwise Space Technology Ltd. is mainly involved in the research, development, manufacturing and testing of spacecraft attitude and orbit control system, propulsion system, spacecraft Guidance Navigation Control system and their components.

BEN GURION UNIVERSITY OF THE NEGEV

Member since: 2020
Web: https://in.bgu.ac.il/en/pages/default.aspx

Beijing Sunwise Space Technology Ltd. is mainly involved in the research, development, manufacturing and testing of spacecraft attitude and orbit control system, propulsion system, spacecraft Guidance Navigation Control system and their components.

BELGIAN FEDERAL SCIENCE POLICY OFFICE (BELSPO)

Member since: 2010
Mail: www@belspo.be
Web: http://www.belspo.be/

Helping to progress towards the Barcelona objective (devoting 3% of the GDP to research and development), participating in job creation and well-being through innovation, optimising the running of the Belgian research area, fighting against climate change: such are the major stakes Belgium has to face.

With its 2,800 employees, the Federal Science Policy department contributes significantly to meeting these objectives. Through the major research programmes we manage, we also offer the government reliable, validated data, allowing it to take decisions with full knowledge of the facts in areas such as sustainable development, the fight against climate change, biodiversity, energy, health, mobility and the information society.

We also manage the Belgian contribution to the European Space Agency. Since Belgium is the fifth net contributor to the ESA, this participation is strategic for our country and crucial for our companies. At the same time, we offer R&D aid to companies with the desire to participate in various AIRBUS programmes, which is essential to their positioning in the ruthless battle raging in this sector on a global level.

The 10 federal scientific Institutes offer scientists an exceptional framework and research materials. They also house artistic and historical collections, which are visited by more than 1.2 million people every year. BELNET, the Belgian national research network, provides high-speed internet access to Belgian universities, colleges, research centres and public services. STIS completes the system by offering an information brokerage service to the scientific community, the economic and social world and public services.

The Federal Science Policy also co-ordinates the research effort lead by all the country’s authorities and is responsible for introducing our researchers into international research networks. In this sense, it lies at the heart of the Belgian research space and represents a major centre in the European research space. The Federal Science Policy alone represents almost 30% of the entire Belgian public budget in terms of research.

The Federal Science Policy is also a network of prestigious institutions such as the Academia Belgica in Rome, the Biermans-Lapôtre Foundation in Paris, the Junfraujoch in the Alps, the Académie Royale des Sciences d’Outre-Mer, the Royal Belgian Film Archive, the Euro Space Center and the Institut Von Karman. Through these infrastructures, the Federal Science Policy offers our researchers an international reputation.
Our research group conducts experiments seeking to answer one of humanity’s oldest questions: are we alone in the universe as intelligent, technologically capable, life. There is perhaps no other basic science question with a more profound link to the global human exploration of space. We seek to engender dialogue, exchange ideas and build collaborations around the question of the existence of extraterrestrial life with the international astronautics community.

beSpace is mainly active in space education, providing aerospace related services and conducting research. beSpace is managing the Master of Space Engineering study programme (www.mse.tu-berlin.de) in close co-operation with TU Berlin. The company conducts summer and winter courses in hands-on CanSat design. beSpace has offered satellite operations support for international customers and the German Aerospace Center (DLR). Investors and partners use beSpace for systems engineering support when conducting projects and feasibility studies.

The primary activities of Black Engine Aerospace (BEA) are the development and the production of rocket engines on basis of ceramic carbon. Therefore, cooperation and licence contracts with the German space Center (DLR) in Stuttgart have been installed. BEA is a spin off by the DLR Stuttgart.

The ceramic carbon combustion chamber was originally developed and tested by Markus Ortelt, project manager DLR Stuttgart who is also managing partner of BEA.

Blue Origin’s mission is to build innovative space systems to enable millions of people to one day live and work in space. As a vertically integrated space technology organization, Blue Origin excels in rocket propulsion, space craft and reusable rockets.

The Brazilian Space Agency (AEB) is a civilian authority within the purview of the Executive Office of the President of Brazil, established by law on 10 February 1994.
It is in charge of overseeing Brazilian space activities and fostering cooperation, both nationally and internationally, for the furthering of the country’s goals in space. The Agency is called upon to coordinate the major elements of the Brazilian activities which are presently carried out by other institutions, constituting the so called National System for the Development of Space Activities – SINDAE.

The National Institute for Space Research (INPE), under the Ministry of Science and Technology, is in charge of projects devoted to the development of satellites and related technologies, as well as R&D activities in the fields of Space Applications, particularly Earth Observation, and Space and Atmospheric Sciences.

The Institute of Aeronautics and Space (IAE), under the Ministry of Aeronautics, is responsible for the development of satellite launchers and sounding rockets. This Ministry is also responsible for the development of a fully operational launch range at the Alcântara Launch Center (CLA), and for running the Barreira do Inferno Launch Center.

Other participants in the programme are the Brazilian universities and private sector. The first is being brought to participate both as proponent of R&D projects and as scientific and technical consultant; the second has been contracted to develop and supply systems, equipment and services.

In order to fulfill its role, the AEB has the legal mandate to formulate and carry out the Brazilian National Policy on the Development of Space Activities (PNDAE) and the Brazilian National Space Activities Program (PNAE). The Brazilian National Space Program – PNAE – was formally approved on August, 1996. Covering a 10 year period, it organises the country’s space activities into major programs intended to pursue the objectives of PNDAE. In doing so, it takes into account the history and the achievements of Brazil’s space activities being developed since the 60’s, the country’s present capabilities, and the guidelines set by the National Policy.


Satellites and Payloads
- Development and construction of four small data collection satellites. The first one, SCD-1, was launched in 1993 and remains operational. The data collection service will be increased with the launching of SCD-2 and SCD-3 until 2000.
- Since 1988 China and Brazil are cooperating in a program to develop two remote sensing satellites, the CBERS (China – Brazil Earth Resources Satellite). Those satellites are designed for global coverage using optical cameras, with characteristics similar to those of Landsat and Spot. The first one is scheduled for launch in 1998. Presently the parties are also studying the extension of the program to include two more satellites.
- SACI is a micro-satellite being developed to carry four experiments conceived by Brazilian scientists and their foreign partners. It shall be launched with CBERS-1, as a piggyback. Other scientific satellites are expected to follow.
- Two small earth observation satellites, SSR-1 and SSR-2, projected to operate in equatorial circular orbit at an altitude of 900 Km, are under development and scheduled for launch in the years 2000 and 2003. – The concept of an equatorial low earth orbit satellite constellation, aimed basically towards providing low cost communications to remote areas around the Equator, was approved in 1994. Since then the project evolved, was detailed and properly notified to ITU. The strategy for its implementation is presently being re-analysed.
- As a result of the cooperation agreement signed between NASA and AEB, a Brazilian CCD remote sensing camera is scheduled for two experimental flights on board of the Space Shuttle. Also, Brazil is developing a humidity sensor to integrate the payload of NASA’s EOS-PM1 satellite, part of the EOS programme.
- Several other international cooperation alternatives are under consideration.

International Space Station
- According to a governmental agreement signed between Brazil and the USA, AEB will be responsible for the development and provision to NASA of equipment which are part of NASA’s contribution to the ISS program. In exchange, AEB will receive rights from NASA’s allocation to utilise the ISS.

Launchers
- Since the early seventies Brazil has been undertaking a long term launcher program which started with the development of a successful family of sounding rockets named SOND. The sounding rocket subprogram continues and is now benefiting from technologies developed for the satellite launcher subprogramme.
- The technology developed for the sounding rockets was the basis for the satellite launcher subprogram. The first flight test of the Brazilian small satellite launcher VLS-1 was performed on November 2, 1997. Three other qualification launchings are planned for the coming years.
- A smaller launcher, VLM, is also planned for the near future, as an alternative for the launching of micro-satellites.
- The extensive and valuable space infrastructure the country has been able to develop, which besides launching centers includes integration and test facilities, satellite and missions control centers, ground stations, observatories and research laboratories, shall be properly maintained, upgraded and expanded to meet the needs of the national programme.
Space Applications

- Brazil’s geographic and economic characteristics are such that there is a great potential to employ space technology to meet national needs. Those include the country’s continental size, its under-populated land borders, its huge coastline, its tropical forest regions and the enormous areas characterized by difficult access and sparse population distribution, besides the extensive natural resources still to be surveyed in its territory. Therefore, space applications are directed towards the solution of concrete national problems, in the fields of earth observation (agriculture, environment, natural resources and territorial organization), meteorology, oceanography, communications, navigation and geodesy.

Budget

- The budget for the Brazilian space activities has been growing steadily on recent years and is expected to keep on this pattern as it is a long term governmental policy to substantially increase the country’s investments on science and technology.
- For 1998 the expected budget is around US$ 100 million for projects, plus another US 70 million for salaries and the maintenance of general facilities. It shall be provided mostly by the Federal Government through Brazilian Space Agency, the Ministry of Science and Technology and the Ministry of Aeronautics.
- The recent budget has focused mostly on the development of satellites (37%), space infrastructure (32%), and launchers (19%).

BULGARIAN AEROSPACE AGENCY

Member since: 1995
Mail: basa@basaaviation.com
Web: http://www.calpoly.edu/

The Bulgarian Aerospace Agency (BASA) is a non-profit organization with government participation.

The Agency was established in 1993 in order to promote the national policy in the field of aerospace, coordinate the efforts of the government, science and industry for the sake of the sophistication and utilization of aerospace technologies and to represent the Republic of Bulgaria to national, foreign and international government and non-government institutions, in accordance with the competent government bodies.

BASA is a voting member of the International Astronautical Federation (IAF) since 1995.
A leader in engineering education, the College of Engineering promotes “project-based learning” to link theory with hands-on practice. Graduates are well prepared to enter graduate school or the engineering profession. In fact, Cal Poly engineers are highly sought by industry because they are known to “have two feet on the ground and two hands on the problem.”

Canadensys Aerospace Corporation is a Canadian-owned and managed space systems and services company, incorporated under the laws of Ontario. With a focus on accessible space, the company is founded on heritage and expertise spanning a number of Canada’s historic space achievements of the last 3 decades, blended with micro-and nano-space technologies and modern, commercial business approaches to space programme and mission development.

Leveraging the performance available from today’s smaller systems and applying modern, commercial business models to space development, Canadensys is dedicated to doing its part in providing more affordable missions, to more people and in more accessible ways to ensure everyone can truly participate and share in the knowledge, advancement, economic return and sheer adventure of global space exploration. Offerings span missions, systems, instruments and subsystems in support of science and exploration initiatives to Earth Orbit, Moon, Mars and beyond. Canadensys is deeply engaged in the area of lunar exploration with a particular emphasis on affordable robust approaches to long duration operations on the lunar surface. The company also has a minor portion of its activities addressing terrestrial markets, with spin-offs from its space business. Approximately 30% of its activities support government customers (CSA, NASA, ESA, defence) and 70% support commercial customers. Revenues are equally divided between export and domestic customers.

The Canadian Aeronautics and Space Institute (CASI) is a non-profit professional scientific and technical organisation devoted to the advancement of the art, science and engineering of aeronautics, astronautics and associated technologies in Canada.

It provides a focus for communications and networking among the aeronautics and space community in Canada, and assists members in developing skills, exchanging information, and sharing talents in their areas of interest.

It promotes Canadian competence and international competitiveness in aeronautics and space and their applications, and fosters national pride and international esteem for Canada’s accomplishments in these areas.

The origin of CASI dates back to 1954 when the Montreal based Institute of Aircraft Technicians, the Ottawa Aeronautical Society, and the Canadian sections of the U.S. Institute of Aeronautical Sciences amalgamated to form the Canadian Aeronautical Institute (CAI). In 1962 the Canadian Astronautical Society in Toronto and the Montreal based Astronautical Society of Canada merged with the CAI to become the Canadian Aeronautics and Space Institute. The Institute consists of 15 Branches that serve about 1,600 members in major cities across Canada, some hosted by universities and colleges. Sections cater to special interest groups, such as Aerodynamics, Aircraft Design and Development, Astronautics, Flight Mechanics and Operations, Propulsion, Structure and Materials. Constituent Societies serve members specializing in technologies such as Air Cushion Technology, Navigation, Remote Sensing.

CASI holds conferences, workshops and symposia each year which draw delegates from around the world. It has an extensive publications program, publishing two scientific journals that focus on the work and accomplishments of Canadian scientists and researchers. CASI’s official journal, Canadian Aeronautics and Space Journal, has been published quarterly since 1954. The Canadian Journal of Remote Sensing is the official journal of the Canadian Remote Sensing Society. CASI also publishes proceedings of its conferences and symposia, and keeps its members informed of Institute activities with the CASI Log.
Each year CASI seeks to honour outstanding achievement in Canadian aviation and aerospace by conferring a variety of awards and distinctions. One of these is the Trans-Canada (McKee) Trophy, which was established in 1927 by J. Dalzell McKee, and has been administered by CASI since 1971. It is the oldest and most prestigious award in Canadian aviation. Indeed, the original inductees to Canada’s Aviation Hall of Fame in 1974 included all the recipients of this award to that date. CASI also presents other major awards annually. The McCurdy Award was first presented in 1954 to commemorate the many engineering and other contributions made by John A.D. McCurdy, who flew the Silver Dart at Baddeck, Nova Scotia in 1909 during the first stages of the development of an aviation industry in North America. It is presented for outstanding achievement in the science and creative aspects of engineering relating to aeronautics and space research. The C.D. Howe Award was introduced in 1966 in honour of The Right Honourable C.D. Howe, long-time Member of Parliament and Minister of Transport. The award is presented for achievements in the fields of planning and policy making, and overall leadership in Canadian aeronautics and space activities. The Romeo Vachon Award was introduced in 1969 by CASI in memory of one of Canada’s outstanding bush pilots. It is presented for an outstanding display of initiative, ingenuity, and practical skills in the solution of a particular problem or series of problems in aeronautics and space activities in Canada. The Alouette Award was introduced in 1995 to recognize an outstanding contribution to advancement in Canadian space technology, application, science or engineering, and may be awarded to an individual or a group. The contribution must be recognized as a Canadian-led space endeavour or as a significant Canadian contribution to an international program. The Council further recognizes the contributions of exceptional individuals by election to Fellow of CASI, as well as the appointment of Honourary Fellows.

The Canadian Space Agency directs its resources and activities through four key programmes:

- Earth Observation
- Space Science and Exploration
- Satellite Communications
- Space Awareness and Learning

The President and Chief Executive Officer directs the Programs and activities of the Agency through an Executive Committee made up of senior officers responsible for core and corporate functions. The Agency’s organizational structure reflects the global environment. Many space activities are becoming more service-oriented, with a focus on the needs of end-users and the integration of the technology in terrestrial applications.

CANADIAN SPACE AGENCY

Member since: 1970
Mail: promo@asc-csa.gc.ca
Web: http://www.asc-csa.gc.ca/index.html

Established in March 1989, the Canadian Space Agency (CSA) was created through an Act of Parliament, proclaimed in December 1990. The Agency has a status equivalent to that of a Department of the Government of Canada and reports to Parliament through the Minister of Industry. The CSA has aligned its Programs and activities with the Science and Technology Strategy and supports the priorities of the Government of Canada through the delivery of its strategic outcome.

The Canadian Space Society is a federally-incorporated non-profit Canadian corporation and charity.

Inspired by the old L5 Society and other space-activist groups, its principle objective is to sponsor and promote the involvement of Canadians in the development of Space. This objective will allow us to grow in cooperation, rather than in competition, with other space development organizations (such as the National Space Society and the British Interplanetary Society), while meeting a real need for an effective Canadian space-development advocacy group.

In order to help carry out our principle objective, our Constitution provides for the following additional goals:

- to provide meeting and working places to Society members for the purposes of discussion, presentation and development of space and space-related technologies;
- to provide professional development for those in the space industry or interested in entering the space industry;
- to sponsor, promote and engage in activities designed to promote increased knowledge of space and space-related technologies among Society members, and the general public;
- to pursue the manufacture, printing, publication, and distribution of space-related materials and products.

CANADIAN SPACE SOCIETY

Member since: 2011
Mail: president@css.ca
Web: http://www.css.ca/

The CSS is a federally-incorporated non-profit Canadian corporation and charity.
Center of space exploration, Ministry of Education (referred to as "COSE") is supported by Chongqing University and has 28 key domestic universities as its participating institutions, such as Beijing University, Tsinghua University, Beijing University of Aeronautics and Astronautics, Nanjing University, Chongqing University, Tongji University, Zhajiang University, Southeast University, Shangdong University, Sichuan University and so on. Its main work is to coordinate research on deep space exploration field among universities, and is dedicated to the research and popularization of deep space exploration and actively promote application and development of space just as IAF.

COSE integrates the resources of colleges and universities and undertake the research tasks of deep space detection technologies and projects, so as to serve the Ministry of Science and Technology, the State Science, Technology and Industry for National Defense, General armaments department and other departments and enterprises such as China Aerospace Science and Technology Corporation and so on, as well as to make contributions to the development of deep space detection of China;

COSE explores the mechanism of graduate student education and cultivate applied professional high-level talents. It will strengthen the construction of related disciplines of deep space detection, establish the disciplines such as the mechanical structure, environmental science and engineering (space environment), aerospace strategy and so on.

COSE tracks the development trend in the aerospace field, and promote the integration of enterprises, education and research.

COSE will work on the popularization of deep space exploration; invite both domestic and foreign well-known experts to give lectures on a regular basis, so as to improve the aerospace science literacy of students and citizens.

The Central American Association for Aeronautics and Space (ACAE) is a non-profit organization belonging to the field of science, technology and innovation, which aims to position Costa Rica and the Central American region on the map of the aerospace sector. The association was born in Costa Rica of the initiative of a group of professionals in the new paradigm of technological development that has been brewing in Central America in recent years.

Our mission is to promote and develop the Central American talent in the aerospace field, and our vision to be the entity of reference leading the active participation of Central America in this global endeavour.

ACAE in Costa Rica has 4 main lines of action: Industry, Political advisory, Technological projects and Outreach.

The Central Research Institute for Machine Building, Federal State Unitary Enterprise is a head scientific and research institution of the Federal Space Agency. For over 60 years the Institute has been participating in development of substantially all launch vehicles (LV), manned spacecraft (SC), orbital stations and unmanned SC.
The Institute fulfills:

- Studies and formulation of guidelines and priorities of the national space activity and rocket and space technology (RST) development;
- Theoretical and experimental studies of aerogasdynamics, heat transfer, LV and SC structural strength and dynamics;
- Control of ISS RS, Soyuz and Progress SC, scientific, societal and economy-oriented SC;
- RST quality, reliability, and safety support operations;
- Studies of the GLONASS system buildup lines;
- Studies of impact of NES man-made space debris.

TSNIIMASH has close scientific and technical connections with leading foreign organizations involved in space activity (the USA, China, France, India, Japan and other countries).

**CENTRE FOR MECHANICAL AND AEROSPACE SCIENCE AND TECHNOLOGIES (C-MAST)**

Member since: 2011

Mail: cast@ubi.pt

Web: http://www.aerospace.ubi.pt

The research unit “Centre for Mechanical Aerospace Science and Technologies” (C-MAST) was created in 1994 by a small group of six aerospace engineers. Now we became a Research Center developing studies in Energy, Mechanical and Aerospace Engineering with a wide spectrum of areas, from Astrodynamics to Technological Forecasting.

We are involved in high-level international collaboration, scientific networks, and prestigious professional societies, also aiming to intensify and promote investigation and collaboration with the industry in these domains in Portugal, to improve the quality of teaching/learning in the involved institutions, to qualify high-level specialists, and to develop outreach activities. With these goals in view, the activities of the Centre are multidisciplinary and combine scientific, technological, economic and social aspects.

**CENTRE NATIONAL DE LA CARTOGRAPHIE ET DE LA TÉLÉDÉTECTION (CNCT)**

Member since: 1996

Mail: cnt@defense.tn

Web: http://www.cnct.gov.ma/

The National Remote Sensing Centre: a public institution in the core of geographical information. Since the beginning of 2004, the CNCT engaged a strategic step going in parallel with the widening of CNCT’s attributions to topography and cartography (basic and thematic). Our center wants to be within the reach of all the community operating in the field of geographical sciences. It reflects the ambitious program undertaken by the Centre, which envisages the continuation of research on the erosion, the water resources, the coastal zone, the effects of the drought and desertification, taking care that orientations thus identified converge with the national priority programs.

**CENTRE NATIONAL D’ÉTUDES SPATIALES (CNES)**

Member since: 1981

Web: http://www.cnes.fr/

Founded in 1961, the Centre National d’Etudes Spatiales (CNES) is the government agency responsible for shaping and implementing France’s space policy in Europe. Its task is to invent the space systems of the future, bring space technologies to maturity and guarantee France’s independent access to space.

CNES is a pivotal player in Europe’s space programme, and a major source of initiatives and proposals that aim to maintain France and Europe’s competitive edge. It conceives and executes space programmes with its partners in the scientific community and industry, and is closely involved in many international cooperation programmes — the key to any far-reaching space policy.
The agency’s more-than 2,400-strong workforce constitutes an exceptional pool of talent, with some 1,800 engineers and executives, 35% of whom are women. Through its ability to innovate and its forward-looking vision, CNES is helping to foster new technologies that will benefit society as a whole, focusing on:

- access to space-civil applications of space
- sustainable development
- science and technology research
- security and defence.

**CENTRE ROYAL DE TÉLÉDÉTECTION SPATIALE**

Member since: 1996


The Royal Centre for Remote Sensing (CRTS) is the national institution responsible for the promotion, use and development of remote sensing applications in Morocco. CRTS coordinates and carries out the national programme of remote sensing in collaboration with ministerial departments, private operators and universities.

CRTS uses operational systems to collect, produce and analyze data from Earth observation satellites and other sources. It also runs the national archiving facilities. CRTS provides its expertise in remote sensing to national and regional organisations, ranging from private sector companies to government and non-government institutions, involved in projects for resources management and environmental assessment.

With an experienced and dynamic team and high-performance equipment, CRTS offers services for:

- Projects realisation and methodology definition
- Satellite data acquisition and distribution
- Consultancy and technical assistance
- Information system conception and realization

**ACTION TO PROMOTE INTERNATIONAL COOPERATION**

CRTS is deploying efforts to promote technology transfer and development of cooperation at the international level. Several actions are conducted under different forms:

- Memoranda of understanding between CRTS and its international counterparts
- Participation to a wide range of regional and international programmes (AFRICOVER, COPINE, RAMSES, CAMELEO, RICAMARE, etc.)
- Membership in international associations and committees (COPUOS, IAF, SA, EURISY, ISU, etc.)
- Participation of CRTS staff in the activities of international agencies and organisations, as members of advisory committees, consultants, etc.
- Organization of international conferences dedicated to regional problems – Work with United-Nations organizations such as: UNDP, FAO, UNEP, IOC/UNESCO, OOSA, etc.

**TRAINING TO CONTRIBUTE TO SUSTAINABLE DEVELOPMENT**

One of the missions of CRTS is to encourage the use of satellite remote sensing through the training of professionals and decision makers from different disciplines and at various levels. To fulfil these objectives, CRTS undertakes the following actions:

- Developing technical solutions through training sessions either for initiation or performance enhancement
- Developing project and/or specific training modules in cooperation with regional and international organizations (ESA, FAO, EC, UNDP, ...)
- Developing actions and programmes of R&D in collaboration with national and international universities and regional centers. These actions concern topics such as: land cover, land use changes, climate change, desertification, oceanography, etc.

**INFORMATIONS TO INCREASE AWARENESS**

A variety of information actions at various levels and with various orientations and forms, is undertaken by the CRTS to sensitize scientists, decision makers, administrators and youth to the social and economic benefits of space science and technology. Such actions consist of:

- Organisation of seminars, exhibitions, round tables, conferences, etc.
- Creation of a National Committee on remote sensing to inform users and to define the needs
- Publication of a newsletter on space activities
- Publication of a multidisciplinary, technical and scientific journal, “GEOOBDERVATEUR”, focused on themes concerning developing countries.
CIDA-E was created in 1975, as a state organisation with the following objectives:

- to study and to promote the study of aeronautic and space issues;
- to disseminate the results of its researches and studies;
- to advice and collaborate with the Uruguayan Air Force, the Civil Aviation Authority and other public and private organisations linked with aerospace issues.

In addition the Center has promoted the approval and ratification of several aeronautic and space treaties:

- it has set up Uruguay’s position in these areas in many international organisations (COPUOS, CEA, ITU, ICAO, etc.) and under its auspices, Uruguay became a Member of COPUOS;
- it has published more than a hundred articles and it issues an annual review of worldwide circulation containing aeronautic and space articles written by national and foreign experts;
- it organises regularly academic activities and participates in several national and international meetings (ICAO, IAF, IISL, LACAC, ALADA, etc.);
- it is member of IAF and IISL and it keeps cooperation relationships with many other institutes and organisations (INDAE, ALADA, Instituto Iberoamericano de Derecho Aeronáutico y Espacial y de la Aviación Comercial, etc.).

China HEAD Aerospace Group (HEAD) is a private company founded in 2007 and headquartered in Beijing, China with subsidiaries and joint laboratories located in Shanghai, Hong Kong, the Netherlands and France.

HEAD is a reliable and proven business partner based on its successful collaboration experience to assist international companies to commercialize their space products in China. Over the last 10 years, HEAD contributed to more than 100 space related missions in Chinese space programs, such as Lunar Exploration, Manned Space, Navigation, Telecommunications, Remote Sensing, etc., based on its international partnership.

With its global vision and approach, HEAD is transforming its positioning to become a commercial satellite operator by investing in its own small AIS/IoT satellite constellation “SkyWalker”. The HEAD-1 satellite as part of the constellation was successfully launched in November 2017. In addition to its own constellation, through a strategic partnership with the Chinese national Earth observation operators, HEAD has access to a wide portfolio of Chinese civilian on-orbit Earth observation (EO) satellite. Through a data fusion approach of EO and AIS data, HEAD will provide commercial value-added services to various sectors including maritime, IoT, agriculture, finance, etc.

The Chinese Society of Astronautics (CSA) was founded in October 1979 and formally registered in Beijing, China; it is a non-governmental and non-profit academic organisation and corporate aggregate. CSA includes 30 professional committees, 169 institutional members and 18338 individuals with an interest in space matters.

The purposes of the CSA are to expedite the development and popularisation of space science and technology with astronautical professionals and technicians.
CIRA ITALIAN AEROSPACE RESEARCH CENTRE

Member since: 2006
Web: http://www.cira.it/en/

CIRA was created in 1984 to manage PRORA, the Italian Aerospace Research Program, and uphold Italy’s leadership in Aeronautics and Space. CIRA is a company with public and private sector shareholders. The participation of research bodies, local government and aeronautics and space industries sharing a common goal has led to the creation of unique test facilities, unmatched anywhere in the world, and of air and space flying labs.

CIRA is located in a 180-hectar area in the immediate vicinity of Capua, in the province of Caserta, north of Naples. Its has a staff of 320 people, most of which are engaged in research activity within domestic and international programmes.

COLEGIO FEDERADO DE INGENIEROS Y DE ARQUITECTOS DE COSTA RICA (CFIA)

Member since: 2019
Web: http://cfia.or.cr/

The Colegio Federado de Ingenieros y Arquitectos de Costa Rica (CFIA) is a professional society, with its own legal status and equity, and has been vested with the rights, obligations, powers, and attributions granted by the law.

It is an independent body that is not subject or subordinated to any state institutions and has jurisdiction throughout the national territory.

CFIA is the organization responsible for controlling and regulating professional practice in engineering and architecture, giving the license to professionals to practice the profession in which they are registered.

Specifically in the aerospace area, CFIA has approximately 10 years giving technical support in the development of projects in science and technology in aerospace topics in Costa Rica and the Central American region, for example the first Central American satellite. Much of the work is focused in training and capacity building. Educating young students and children in this field is one of the main aims of the organization as well as the search for new professional opportunities and their linkage with the aerospace sector.

Being the professional association in Costa Rica in engineering and architecture, it is a government consultation entity in technical matters and collaborator in the creation of public policies.

COLOMBIAN SPACE AGENCY

Member since: 2018
Web: http://agenciaespacialdecolombia.org/

The Space Agency of Colombia is a foundation with the social purpose of promoting the development.

COLORADO CENTER FOR ASTRODYNAMICS RESEARCH, UNIVERSITY OF COLORADO

Member since: 2014
Web: http://ccar.colorado.edu/

The Colorado Center for Astrodynamics Research (CCAR) is dedicated to the study of astrodynamics and the application of satellites to science, navigation, and remote sensing of the Earth and planets. Hosted by the Department of Aerospace Engineering Sciences in the College of Engineering and Applied Sciences, CCAR was established in 1985 as a key component of the University of Colorado at Boulder’s emphasis on space science. CCAR brings together a multidisciplinary group of faculty, staff, and students to enhance our understanding of the Earth and the solar system through satellite missions and observations.
Research emphasis areas include astrodynamics, which involves orbital and attitude motion of Earth satellites, interplanetary spacecraft, and planetary bodies, global navigation satellite systems (GNSS) used for orbit determination, remote sensing, and vehicle navigation, and remote sensing of the Earth’s surface, gravity field, oceans, atmosphere and space.

As a specialised agency of the Argentine State, CONAE is the only government body to understand, design, execute, control, manage and administer space projects and entrepreneurships throughout the country. It represents the Nation’s civil research and development capabilities in space activities. In view of the wide scope of applications to be considered when generating Information Cycles, the activities and projects to be undertaken by CONAE are required to be relevant from a socio-economical point of view, and should enable to:

- develop and apply advanced technological knowledge;
- enhance economic and human resources;
- build-up International cooperation on a partnership basis;
- conduct oneself as a “space architect”, granting a privilege on knowledge over execution;
- conceive the whole Space Program as an investment project.

Cosmoexport Aerospace Research Agency was founded on October 3, 2002. The company promotes a wide range of aerospace activities including carrying out research and development of project feasibility studies for implementation of aerospace technologies; promotion of the independent expertise of the aerospace studies; marketing and sales of products and services in the aerospace and related areas in different regions of the world; science-consuming product delivery and technology transfer services for Russian and other countries’ customers including provision of necessary coordination with Russian authorities; guaranteed continuous support of the delivered technical systems; comprehensive training programs both in Russia and customer’s country to guarantee continuity in aerospace systems operation and maintenance.

The company promotes non-commercial activities by popularization of aerospace education and assistance in dissemination of aerospace knowledge in Russia and abroad.

The company has licenses and other packages of documents issued by Federal Space Agency and other Russian state entities and required for above mentioned activities including aerospace activity.
The Council of European Aerospace Societies (CEAS) is an International Non-Profit Organization, with the aim to develop a framework within which the major European Aerospace Societies can work together. It was established as a legal entity conferred under Belgium Law on 1st January 2007, as the result of a slow evolution of the ‘Confederation’ of European Aerospace Societies which was born fifteen years earlier, in 1992, with three nations only at that time: France, Germany and the UK.

It currently comprises 12 Full Member Societies, 4 Corporate Members, 8 Societies having signed a Memorandum of Understanding (MoU) with CEAS.

The CEAS is governed by a Board of Trustees, with representatives from each of the Member Societies. Its Head Office is located in Belgium: c/o DLR – Rue du Trône, 98 – 1050 Brussels.

www.ceas.org

Since January 2018, the CEAS has closely been associated with six European Aerospace Science and Technology Research Associations within the ‘AEROSPACE EUROPE’ platform which aims to coordinate the calendar of the various conferences and to rationalize the information dissemination.

CEAS publishes the quarterly AEROSPACE EUROPE Bulletin which aims to provide the European aerospace community with high-standard information concerning current activities and preparation for the future.

CSIRO ASTRONOMY & SPACE SCIENCE
Member since: 1986

CSIRO, the Commonwealth Scientific and Industrial Research Organisation, is Australia's national science agency and one of the largest and most diverse research agencies in the world.

Mail: enquiries@csiro.au
Web: http://www.csiro.au/

CSL (CENTRE SPATIAL DE LIÈGE)
Member since: 1988

CSL is among the world-leading institutes for space technology research and testing. Specialised in optics, most of the CSL activities are focussed on applications and payloads involving optical elements, detectors, metrology and space-testing equipments.

Being a Research Center of the University of Liège, CSL is in direct contact with networks of various competencies, making it an efficient partner for a wide range of research and technology projects.

Being also deeply involved with industrial partnerships, CSL offers a set of various services for space industry but also for local and European industry, using the equipments and the know-how acquired for space activities. Ranging from pure R&D consultancy to customised development projects, or testing of equipments, CSL is your potential partner for a lot of applications.
CSL is also hosting academic researchers, with several PhDs, internships, trainings and associated students. CSL is located in the Liege Science Park, next to the University campus.

The scope of activities and researches of CSL is divided in 3 main fields:

- space testing for European Space Agency and space industry,
- optical instruments development,
- technological developments.

CSL, previously known as “IAL Space”, is born in the ‘60s within the Astrophysics department of the University of Liège. A group of researchers has been dedicated to observations from space, under the lead of Prof A. Monfils. The first experiments were developed with sounding rockets launched from Sardinia and North of Sweden for comet and auroral observations. Then IAL Space participated to the first scientific spacecraft of the European Space Agency, TD1. It has been launched in 1972 with a strong participation of IAL Space on the S2-68 telescope. These activities initiated the development of calibration facilities to test optical hardware under vacuum in thermal conditions. Then IAL Space participated to the testing and calibration of many ambitious scientific programs, such as GIOTTO, HIPARCOS, ISO, XMM-Newton, Herschel, Planck, etc.

Besides the test activities, thanks to the Belgian participation to Prodex, CSL has been involved in the development of optical payloads. Starting with EIT/SOHO in the early ‘90s, CSL participated to the development of other world-leading instruments: FUV/IMAGE, OMC/INTERAL, OM/XMM-Newton, Secchi/STEREO, PACS/Herschel; UVS/JUNO, etc. Since the early 2000’s, CSL is developing technological applications derived from the know-how of space projects and tuned to industry needs or market needs. The start of these activities was funded by the Walloon Region.

Today, CSL is offering many services and support for consultancy in a very wide field of applications, supported by regional, federal and European programmes.

Technology field:

- Space Instruments
- Remote Sensing
- Space Environmental Tests
- Solar Arrays
- Ground Support Equipment
- Optical Metrology
- Lasers
- Solar Applicaons

Products & Services

- Vibrations
- Microfabrication
- Surface & nano-engineering
- Smart sensors
- Optical design
- Climatic Chamber
- Cleanliness
- Teaching and formation
- Design of clean rooms

CURTIN UNIVERSITY

Member since: 2013

Mail: p.nicholls@curtin.edu.au
Web: http://www.curtin.edu

Curtin University is part of the Australian Technology University network and is Western Australia’s largest and most multi-cultural university. We have a strong commitment to international engagement with Australia’s third largest international student population. Curtin University is a key player in the International Square Kilometre Array (SKA) project through leadership of the Murchison Widefield Array (MWA) pathfinder project.

CVA (COMMUNITY OF ARIANE CITIES)

Member since: 2012

Mail: cva@ariane-cities.com
Web: http://www.villes-ariane.org/

The Community of Ariane Cities – CVA – was founded in 1998 and registered in France as a non-profit association, with the aim of strengthening the cooperation among cities and industrial organisations involved in European space transportation programmes, and informing citizens about the benefits of European space transportation activities and about French Guiana as the home to Europe’s Spaceport.
CVA organises programmes with member cities, their universities, educational authorities, schools and industrial companies. The joint programmes are of technical, cultural, educational and outreach nature, stressing the importance of intercultural cooperation, and helping to build longstanding relationships among citizens, especially the younger generations.

**CYPRUS ASTRONAUTICAL SOCIETY**

Member since: 1961  
Mail: cyprus-astronautical-society@space.org.cy  

**CYPRUS SPACE EXPLORATION ORGANISATION (CSEO)**

Member since: 2016  
Web: [https://www.spaceexploration.org.cy/#/Home](https://www.spaceexploration.org.cy/#/Home)

The Cyprus Space Exploration Organisation (CSEO) is a non-profit organisation of public benefit, promoting and advancing space exploration and astronomy in Cyprus and around the world.

It was founded in 2012, with the goal of “Launching Cyprus into the Space Era” and building the next generation of scientists, that would see Cyprus as a niche player in global space exploration initiatives, and would build an international collaboration with other space-faring nations in scientific, space and planetary missions. CSEO’s International Council comprises some of the world’s most distinguished individuals that are highly decorated for their contribution to space exploration and astronomy. CSEO’s foresight includes the establishment of an International Space Centre in Cyprus, space sciences and exploration, R&D, incubators, observatory, space discovery missions, earth observation, and collaboration with other international space entities.

Today, CSEO has multiple international awards in space innovation, and a thriving ecosystem of over 75 corporate members, a global network of space ambassadors via “CSEO International”, and over 700 registered researchers, scientists, and educators.

CSEO is internationally institutionalized and/or represents in Cyprus:

- The International Astronomical Union (IAU)
- The International Committee on Space Research (COSPAR)
- The International Astronautical Federation (IAF)
- The Copernicus Academy Network of EU Commission, as a Founding Member
- The Moon Village Association (MVA)

CSEO based in Cyprus, presents a meeting point between space fairing nations; a steppingstone where space for peaceful purposes, employing technology and commerce can grow and mature.

CSEO’s motto is – Non lucror, Exposita Scientia, ad Astra – “Not for money, for discovering knowledge, approaching the heavens.”

**CZECH SPACE ALLIANCE**

Member since: 2010  
Mail: petr@czechspace.eu  
Web: [http://www.czechspace.eu](http://www.czechspace.eu)

The Czech Space Alliance (CSA) is an industrial association of, and for, the Czech space industry, with proven skills and track record in aerospace business and with broad international client base.

The alliance was established in 2006 under the auspices of CzechTrade, the export promotion agency of the Ministry of Industry and Trade. During the process leading to the Czech accession to the ESA convention in 2008, it formalised its statutes and became registered as a legal entity.

Its focus is on fostering successful participation of the members in competitive international space tenders, with major emphasis on ESA. The alliance comprises 17 companies from a spectrum of technology disciplines [see members] and some 300 man years of experience in space projects.
The Czech Space Office was founded in November 2003 as a private non-profit organisation, when the Czech Republic became ESA’s cooperating state. The CSO provides support to Czech science, education, R&D and business sectors and serves as a contact point towards the international space community. The CSO carries out a broad range of consulting and networking activities at national as well as international level. It also represents the Czech Republic at international events and in various European space organisations.

The CSO believes that the space has an enormous potential to improve our lives. This potential can be explored most effectively by the cooperation with international partners. For such a small country like the Czech Republic, an international cooperation is the most efficient approach how to benefit from the space science and technology and therefore the CSO establishes relations with international and particularly European space community. The CSO takes every opportunity to show the current and potential benefits of the space technology to national economy and society.

D-Orbit is a service provider for the traditional and new space sectors, with capabilities in satellite manufacturing, launch, deployment, satellite operations, end-of-life strategies and solutions, space propulsion and related critical software. Its products and services cover the entire lifecycle of a space mission, including mission analysis and design, engineering, manufacturing, integration, testing, launch, and end-of-life decommissioning.

Cultivate talents with higher academic qualifications and promote development of science, technology and culture. Education for academic qualifications of Philosophy, Law, Pedagogy, Science, Economics, Literature, Engineering, Management, undergraduate, postgraduate, master and doctoral students. Postdoctoral training. Scientific research, continuing education, professional training, academic exchange and scientific and technological consultation.
Danish Aerospace Company (DAC) is a high-tech company operating in the area of advanced medical instrumentation and other engineering fields primarily within space applications. Our products are based on many years of specialized research and development. These consist of developing, integrating, and applying new as well as established medical technologies to the challenges of functioning and remaining reliable in space. These products and services bring the potential of space research and experience from space operations down to Earth for the benefit of all Mankind.

Danish Astronautical Society was founded on 20 September 1949. The Society is devoted to the peaceful use of space, and its prime focus is to spread knowledge and information about spaceflight and space science. The Danish Astronautical Society participated in founding the International Astronautical Federation in 1951.

The prime focus of the Danish Astronautical Society is to spread knowledge and information about spaceflight and space science. The society arranges public meetings, lectures, company visits, portrait meetings and exhibitions. It brings together people interested in space and issues press information. Since 1989 the society has issued the journal Dansk Rumfart™.

Elecnor Deimos is the technology company of Elecnor Group which operates in the Aerospace, Automation and Remote Control, Information Systems, Telecommunication Network, Security and Technological Infrastructure Development.

With more than 500 employees, Elecnor Deimos provides technological solutions for the following markets Aeronautics, Aerospace, Defense, Transport, Energy and Environment, Telecommunications and Security.

The Company’s know how and the high degree of specialisation gives Elecnor Deimos the flexibility to meet customer needs. The Company acknowledges plus its quality principles and environmental commitment on sustainable projects development, appoint Elecnor Deimos as a trusted and reliable partner for high-tech projects.
DELFT UNIVERSITY OF TECHNOLOGY

Member since: 2011
Mail: J.L.Mulder@tudelft.nl
Web: http://tudelft.nl/

TU Delft’s mission is to make a significant contribution towards a sustainable society for the twenty-first century by conducting groundbreaking scientific and technological research which is acknowledged as world-class, by training scientists and engineers with a genuine commitment to society and by helping to translate knowledge into technological innovations and activity with both economic and social value.

DENEL SPACETEQ

Member since: 2013
Mail: SanushaR@denel.co.za
Web: http://www.spaceteq.co.za

Denel Dynamics has proved itself as an innovative leader in advanced systems technology. Its core business covers tactical missiles, precision-guided weapons, Unmanned Aerial Vehicles (UAVs) and integrated system solutions. The company has recently diversified into a number of non-defense areas, currently it includes Space where it is intended to supply the RSA Governments’ Earth Observation satellites.

Known for its forward-thinking approach to providing solutions for clients — its track record reflects that most clients start and continue their business journey with Denel Dynamics as it continues to break new grounds to develop, upgrade and integrate world-class products.

DEPARTMENT OF SPACE STUDIES, UNIVERSITY OF NORTH DAKOTA

Member since: 2010
Mail: info@space.edu
Web: https://aero.und.edu/space/

The goal of the faculty and staff is to guide, inform, stimulate, and present with a variety of educational experiences to prepare people for placement in a space-related field. The Department offers formal courses, seminars, discussions, and field trips to enrich graduates of the Masters of Science in Space Studies.

DEREUM LABS S.A. DE C.V.

Member since: 2019
Web: http://dereumlabs.com/

In the upcoming decades, we will create a space economy formed by the Earth, Moon and Mars. This endeavour will require resources, industry and services, some of which we already use on Earth thanks to the expertise of large industries.

Dereum Labs democratizes access to space data, taking Earth industries to space thanks to our Mission as a Service (MaaS) model, by providing On-surface Payload Transportation, Data Science and Mission Design services based on our robot infrastructure.
Deutsches Zentrum für Luft- und Raumfahrt E.V. (DLR)

Member since: 1985

Web: http://www.dlr.de/

DLR, the German Aerospace Center, is Germany’s national research centre for aeronautics and space. Its research and development work in aeronautics, space, energy, transport, defence and security is integrated into national and international cooperative ventures.

As Germany’s Space Agency, DLR is tasked with the planning and implementation of Germany’s space programme. In addition, two project management agencies have been established to promote DLR’s research. DLR conducts research into Earth and the Solar System, it delivers important data for the preservation of our environment and develops environment-friendly technologies to enhance power supply, mobility, communication and security. DLR’s research portfolio ranges from basic research to the development of products for tomorrow.

Deutsche Gesellschaft für Luft- und Raumfahrt, Lilienthal-Oberth e.V. (DGLR)

Member since: 1951

Mail: info@dglr.de
Web: http://www.dglr.de/

Oldest German institution to be action and information forum for all people that are professionally or privately involved with aero- and astronautics. Organised to support scientific-technical advances of all aspects of aero and astronautics, it has following mission:

1. Development of perspectives for aero and astronautics
2. Support of scientific, technical and technological projects
3. Advancement of education
4. Public outreach

DIGANTARA RESEARCH AND TECHNOLOGIES PRIVATE LIMITED

Member since: 2019

Mail: teamdigantare@gmail.com
Web: http://www.digantara.co.in/

An Indian Space Engineering Company specialized in the development of aerospace technologies with a mission to secure long-term spaceflight safety by developing space debris tracking and monitoring services. Our team of Space Enthusiasts is committed in securing low Earth orbit operations. Digantara mainly focuses on Research and Technology applications in the area of Space Debris, Mapping & Analysis Services, Collision Avoidance and Orbit Determination. Our comprehensive approach to orbital services incorporates the business model, technologies, and space regulation and law solutions that contribute to a more sustainable space environment.

Digantara is a technology based company and we believe that a revolution in the space technology is what it takes to change the world we live in. In the field of Small Satellites and CubeSat Development, Digantara offers cost effective and highly reliable solutions. We have also expanded our operation by providing Small Satellites Components, Avionics, Manufacturing of Satellite Bus and Mission Support to partnered Space Agencies in the International Space Community.
DISRUPTING SPACE LLC

Member since: 2019

Mail: disruptingspace@gmail.com
Web: https://www.disruptingspace.com/

We specialize in transferring information from the space industry to all other industries and vice-versa. For any target group, whether veteran in the space industry or a novice in a non-space field, we have developed a unique non-traditional method of operations and its implementation will allow us to turn any non-space idea, research, or project into a space related one, turning established ideas into something unique. We organize and execute research missions that bring together cross-industry and cross-disciplinary partners to enhance our knowledge and to produce new solutions for the benefit of mankind. In addition, we are implementing educational initiatives such as talk tours to increase the knowledge and involvement of the public in the space industry as well as trainings aimed at the young generation with or without space background wanting to get more involved in the space field.

DNIPROPETROVSK NATIONAL UNIVERSITY

Member since: 2013

Web: http://www.dnu.dp.ua/en

Oles Honchar Dnipropetrovsk National University is one of the leading establishments of higher education in Ukraine. It was founded in 1918, and has 63 agreements with higher education institutes and research centers from many countries of Europe, Asia, the USA, and Canada.

THE FACULTY OF PHYSICS AND TECHNOLOGY of Dnipropetrovsk National University was created in 1951 for specialist education in the field of space-rocket engineering.

The total number of students in the Faculty is about 1250. The annual admittance is 185 students. The teaching is executed by 140 teachers, between them 25 Professors and 75 Associated Professors.

DNIPROTEKHSERVICE, SPF, LLC.

Member since: 2012

Mail: root@dts.dp.ua
Web: http://www.dts.dp.ua

Dneprotechservice, Ltd is a group uniting several machine building enterprises of Ukraine. Design, manufacture, sale and servicing of equipment, machinery and equipment for mining and metall processing complex and the industry.

DTU SPACE, DANISH NATIONAL SPACE INSTITUTE

Member since: 2013

Mail: lene@space.dtu.dk
Web: http://www.space.dtu.dk/english

DTU Space, National Space Institute, is Denmark’s national space institute.

DTU Space is the only research organization in Denmark with the basic funding and mandate to carry out space research. Although space research is also conducted at other universities and organizations, these activities primarily rely on funding from research agencies and other external funding sources.
Through national and international cooperation, DTU Space leverages its research capabilities to create new knowledge and technology of value for Danish research infrastructure, industry, and society at large. DTU Space’s scientific competences further give it the ability to provide qualified advice to national and international agencies and organizations, and also forms the basis for educating researchers and engineers in both basic and specialized disciplines.

DTU Space’s mission is to create and expand knowledge about Earth and space physics as well as related space technologies in order to:

- Foster scientific results within Earth and space physics of a high international standard.
- Provide space-related technological research of a high international standard.
- Increase student motivation to enter technical and scientific disciplines.
- Offer added value, growth and synergies in the high-tech end of Danish industry and business through the exchange of knowledge and technology.
- Offer research-based consultancy to agencies and authorities regarding space science and technology, the environment, climate, geographic infrastructure, transport and security in Denmark.

The common denominator in DTU Space’s research activities is the application of satellites for studying Earth and space physics and the development of systems, methods and instruments, which support these activities.

DTU Space is characterized by a close-knit interplay between engineering disciplines and natural science. The scientific challenges require development of new technologies, and the technological research opens up new scientific opportunities.

The combination of the technical and scientific competencies enables DTU Space to deliver unique end-to-end solutions within selected areas, i.e. to both develop the necessary instrumentation and process the collected data to scientific results.

The space division at Dynetics, Inc. headquartered in Huntsville, Ala., provides flexible flight hardware development from low-cost prototypes through complete human-rated solutions. Dynetics Space Division’s capabilities include propulsion systems, small satellite development, mechanical and propulsion testing, system integration and assembly, mission design and vehicle sizing and vehicle structure design and manufacturing.

DYNETICS
Member since: 2019
Web: https://www.dynetics.com/

ECOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE (EPFL)
Member since: 2003
Mail: webmaster@epfl.ch
Web: http://www.epfl.ch/

EPFL is Europe’s most cosmopolitan technical university. It receives students, professors and staff from over 120 nationalities. With both a Swiss and international calling, it is therefore guided by a constant wish to open up, its missions of teaching, research and partnership impact various circles: universities and engineering schools, developing and emerging countries, secondary schools and gymnasiums, industry and economy, political circles and the general public.

ECUADORIAN CIVILIAN SPACE AGENCY (EXA)
Member since: 2008
Mail: rp@exa.ec
Web: http://exa.ec/exa-en.htm

EXA is the Ecuadorian Civilian Space Agency, founded on 1 November 2007 in Guayaquil, Ecuador as a civilian independent organism in charge of the administration and execution of the Ecuadorian Civilian Space Programme, conduct scientific research on planetary and space sciences and to push forward the development of science in the educational system in the country.

EXA is the first space agency in the history of Ecuador, it has its own astronaut, the ASA/T Ronnie Nader, who is the Director of the Space Operations Division and is also the Honorary Chairman of the Directorate Board of EXA. His state of service is active, his position is of Mission Specialist and his function is Mission Commander.

EXA is backed up by the Ecuadorian State through the Ecuadorian Air Force with whom EXA maintains a close relationship, not only of work for the benefit of Ecuador, but also of mutual respect and friendship.
In less than a year of existence, EXA has achieved key goals and historical milestones for Ecuador: The first Latin-American microgravity plane, developed with its own science and technology alongside the Ecuadorian Air Force, the Guinness World Record for the youngest human being ever to fly in microgravity, the RIM-G, a system allowing almost any person to fly microgravity without being sick, opening the door for thousands of Ecuadorians to the marvels of 0G and to a new set of research opportunities. EXA jointly operates with the Ecuadorian Air Force the Ecuadorian Micro Gravity flight Program EXA manages and executes the Ecuadorian Civilian Space Program planned initially for 10 years of duration and 3 phases of manned and unmanned space flights, including the first Ecuadorian astronaut in space, the first Ecuadorian satellite and a manned landing in the moon.

EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

Member since: 2016

Web: https://erau.edu/

Embry-Riddle’s Commercial Space Operations (CSO) program acts as a provider of undergraduate education in spaceflight operations, planning, analysis, and support. Students in the CSO program develop competencies in a number of disciplines, including aerospace safety, space policy, technology, systems engineering, and flight operations. The program blends these competencies together into a cohesive package within the context of the modern commercial spaceflight sector. Additionally, the program engages in cutting-edge research in spaceflight simulation, space traffic control, spaceflight physiology, and a number of other topics.

EMXYS (EMBEDDED INSTRUMENTS AND SYSTEMS S.L)

Member since: 2012

Mail: sales@emxys.com
Web: EMXYS (Embedded Instruments and Systems S.L)

emxys is an innovative company that designs, develops and produces embedded instruments, data acquisition and control systems for Space applications, both scientific and industrial, providing specialized cost effective services in R&D. emxys is located in Elche (Spain) very near the Mediterranean Sea in a Spanish region of very high industrial and technological growth. emxys applies its know-how to research and development projects mostly on the following fields:

- Space
- Science
- Medical
- Defence

Collaboration agreements with strategic partners offer the customers a unique interface to draw complex problems concerning control and data acquisition where wireless communication, embedded technologies and software performance are the keys to success.

ENDUROSAT AD

Member since: 2019

Web: https://www.endurosat.com/

EnduroSat designs and engineers high-end affordable satellites for business applications and science missions. Our NanoSats have unmatched price/performance and industry-shortest delivery time. The company is focused on the development of next generation space systems for satellite constellations. The unique online CubeSat store / https://www.endurosat.com/ has complete NanoSat systems catalogue and industry’s first satellite configurator. EnduroSat provides end-to-end solutions for space missions. Our current customers include leading space companies and World-class research programs.
Engineers Australia is the national forum for the advancement of engineering and the professional development of our members. With more than 95,000 members embracing all disciplines of the engineering team, Engineers Australia is the largest and most diverse professional body for engineers in Australia.

Enterprise Estonia (EAS), established in 2000, promotes business and regional development in Estonia. It is one of the largest institutions within the national support system for entrepreneurship, providing financial assistance, advisory, cooperation opportunities and training for entrepreneurs, research establishments, public and third sector.

- Enterprise Estonia operates in the following areas:
- Increased sustainability and accelerated growth of startup companies,
- Improved export and product development capability of Estonian companies,
- Greater impact of foreign direct investments on the Estonian economy,
- Increased tourism export and the development of domestic tourism,
- Promotion of regional development and civil society.

Pursuant to the accession of Estonia to the European Union, Enterprise Estonia became one of the implementing units of the European Union structural funds in Estonia.

Today, most of the EAS programs and grants offered are co-financed from the EU structural funds. In the 2007-2013 financing period of the European Union, 13 billion kroons (830 million euros), out of more than 53 billion kroons (3.4 milliard euros) of structural assistance for Estonia, will be applied by Enterprise Estonia.

EOS Data Analytics is an automated cloud-based GIS analysis service. EOS uses a combination of satellite imagery, geospatial data, customer workflow information, and consumer behaviour principles to make the deepest and the most comprehensive GIS analysis. People and companies from different industries can fully meet their GIS requirements by using EOS Data Analytics’ service. Our solutions, powered by proprietary algorithms, provide users with information in a decision-making form. Our analytics help companies to see a complete picture of the current situation and make fast and accurate decisions. EOS uses a multitude of algorithms to process any kind of imagery for any purpose, so that it can be easily integrated into any third-party application from any industry. Our team represents a balanced mix of experienced developers, scientists and successful business people who create, develop and integrate solutions according to customers’ urgent needs and strict requirements.

All our products are created in partnership with industry professionals who fully understand market requirements and expectations.

EUMETSAT is the European operational satellite agency for monitoring weather, climate and the environment. EUMETSAT operates a system of meteorological satellites monitoring the atmosphere and ocean and land surfaces which deliver weather and climate-related satellite data, images and products- 24 hours a day, 365 days a year. This information is supplied to the National Meteorological Services of the organisation’s Member and Cooperating States in Europe, as well as other users worldwide.

EUMETSAT has an extended ground system to control its satellites and handle the data they collect.
Protecting human life and property

The frequent, highly reliable and superb-quality data and images delivered by the EUMETSAT system of meteorological satellites help to enhance and safeguard the daily lives of European citizens. They aid meteorologists in identifying and monitoring the development of potentially dangerous weather situations and in issuing timely forecasts and warnings to emergency services and local authorities, helping to mitigate the effects of severe weather and protecting human life and property. This information is also critical to the safety of air travel, shipping and road traffic, and to the daily business of farming, construction and many other industries.

EURISY
Member since: 1995
Mail: eurisy@eurisy.org
Web: http://www.eurisy.org/

Eurisy is a European non-profit association of over 30 governmental space offices and space agencies, international organisations, research institutions, and private businesses involved or interested in space-related activities. Eurisy was created in 1989 under French law, on the initiative of its founder President, the late Hubert Curien.

Take the EURISY Survey: Operational uses of satellite-based services in the public sector

The survey is aimed at public authorities using satellite-based services- whether local, regional or national. It does not request technical details, but seeks non-technical information on what motivated the adoption of the services, their cost, the challenges for the user, and the benefits observed.

EURO SPACE CENTER
Member since: 2012
Mail: info@euspacecenter.be
Web: http://www.euspacecenter.be/

The Euro Space Center was created by IDElux (Intercommunale d’Equipement Economique de la Province de Luxembourg), a cooperative company including the 44 municipalities of the province plus the province itself.

The Euro Space Center is a place meant to enable people to discover space, its exploration and its consequences on our everyday life. Since the day it opened in June 1991, the Euro Space Center has obtained a certain fame in the space and socio-educational fields. For young people, the general public, the press and the specialized circles (educational or industrial), it has become a reference as far as the divulgation of space technologies and sciences in Belgium are concerned.

Moreover, its educational programs for schools have received the recognition of the Ministers in charge of Education who, for several years, have sent teachers on secondment to lead the so-called “space classes.” Furthermore, the astronaut camps and the space initiation programs make the Euro Space Center a unique center of its kind in Europe. Finally, various leading companies specialized in high technology have chosen the ESC as a shop window for their products thanks to its high tech environment.

EUROCONSULT
Member since: 2007
Web: http://www.euroconsult-ec.com

Euroconsult is the leading international consulting and analyst firm specialized in satellite applications, communications, and digital broadcasting. Euroconsult’s analysts provide strategic, financial and regulatory assessment for space-related activities.

We provide this expertise to clients through three specific activities:

- Customized consulting projects, designed to respond to clients’ specific needs
- Research reports and other strategic decision making-tools
- Summits, bringing together the industry’s leaders
EUCASS, the European Conference for AeroSpace Sciences, was created by European scientists and engineers to improve the vitality of their scientific communication, the quality of their technical activities and to stimulate exchanges between researchers and industry end-users worldwide. On 6 July 2006, it became a non-profit association under Belgian law. It is a member of the International Astronautical Federation.

GSA Mission Statement

The GSA’s mission is to support European Union objectives and achieve the highest return on the European Global Satellite Navigation Systems (GNSS), Galileo and EGNOS, investment, in terms of benefits to users and economic growth and competitiveness, by:

Designing and enabling services that fully respond to user needs, while continuously improving the European GNSS services and Infrastructure,

Managing the provision of quality services that ensure user satisfaction in the most cost-efficient manner,

Engaging market stakeholders to develop innovative and effective applications, value-added services and user technology that promote the achievement of full European GNSS adoption,

Ensuring that European GNSS services and operations are thoroughly secure, safe and accessible

CERN, the European Organization for Nuclear Research, is the world’s leading laboratory for particle physics. It provides a unique range of particle accelerator facilities enabling research at the forefront of human knowledge. Its business is fundamental physics, finding out what the universe is made of and how it works. Founded in 1954, CERN now has 22 Member States as well as other nations from around the globe contributing to and participating in its research programmes. The Laboratory has become a prime example of international collaboration, uniting people from all over the world to push the frontiers of science and technology for the benefit of all.

Within CERN, the Knowledge Transfer Group aims to engage with experts in science, technology and industry in order to create opportunities for the transfer of CERN’s technology and know-how. The ultimate goal is to accelerate innovation and maximise the global positive impact of CERN on society in several application fields.

Aerospace is a field in which CERN is playing a critical and increasingly recognised role from both the scientific and the technological point of view. This domain is considered as highly strategic by many of CERN’s institutional and industrial partners in the Member States and beyond. Both space missions and underground accelerator and detector infrastructures have to deal with extremely harsh environments, posing stringent technological requirements that often overlap. In addition, the exploration of the smallest and largest structures of the Universe requires instruments and data exploitation systems capable of the highest achievable performances. CERN’s technologies, facilities and know-how have concrete applications in space, and the KT Group is committed to exploring synergies and establishing partnerships with institutional, research and commercial organisations active in the aerospace sector.
The European Space Agency (ESA) is Europe’s gateway to space. Its mission is to shape the development of Europe’s space capability and ensure that investment in space continues to deliver benefits to the citizens of Europe and the world. ESA is an international organisation with 20 Member States. By coordinating the financial and intellectual resources of its members, it can undertake programmes and activities far beyond the scope of any single European country.

European Test Services (ETS) is maintaining and providing test facility services to European industry by managing and operating the environmental test centre of the European Space Agency (ESA) located in Noordwijk, Netherlands.

European Test Services (ETS) is active in mechanical testing, EMC testing, thermal vacuum testing, altitude simulation and more. In addition to the test services, ETS also provides test-related engineering and consultancy services.

Besides testing of spacecraft and space applications, ETS has also become a major supplier of testing services to railway-, marine- and power/electricity industry.

The European Space Policy Institute (ESPI) provides decision-makers with an informed view on mid- to longterm issues relevant to Europe’s space activities. In this context, ESPI acts as an independent platform for developing positions and strategies.

Eurospace is the trade association of the European Space Industry. It is a non-profit European organisation created in 1961. Eurospace member companies today represent 90% of the total turnover of the European Space Industry. Eurospace fosters the development of space activities in Europe and promotes a better understanding of space industry related issues and problems.
**Academic Education in Aviation, Space Sciences, Aeronautical and Satellite Engineering.**

With 12 faculties, 4 institutes, 2 vocational schools, 1 conservatory, coordination offices, 7 applied Research Centers.

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**FEDERAL AVIATION ADMINISTRATION OFFICE OF COMMERCIAL SPACE TRANSPORTATION (FAA/AST)**

Member since: 2008

Web: [http://ast.faa.gov](http://ast.faa.gov)

The Office of Commercial Space Transportation (AST) was established in 1984 as part of the Office of the Secretary of Transportation within the Department of Transportation (DOT). In November 1995, AST was transferred to the Federal Aviation Administration (FAA) as the FAA’s only space-related line of business. AST was established to:

- Regulate the U.S. commercial space transportation industry, to ensure compliance with international obligations of the United States of America, and to protect the public health and safety, safety of property, and national security and foreign policy interests of the United States of America,
- Encourage, facilitate, and promote commercial space launches and reentries by the private sector,
- Recommend appropriate changes in Federal statutes, treaties, regulations, policies, plans, and procedures, and
- Facilitate the strengthening and expansion of the United States of America space transportation infrastructure.

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**FINNISH ASTRONAUTICAL SOCIETY**

Member since: 1964

Mail: johtokunta@sats-saff.fi

Finnish Astronautical Society [Suomen avaruustutkimusseura, SATS (Finnish), Sällskapet för astronautisk forskning i Finland, SAFF (Swedish)] is an ideological association, which aims to advance space research, space activities and public knowledge of space engineering in Finland.

The society was founded in 1959. The main activities include arranging and taking part in space related events, model rocketry and hybrid rocket activities. The society co-operates with other space related institutions and societies in Finland.

The membership magazine “Avaruusluotain” [Space probe] has four issues per year and is mailed to the members. The magazine includes articles on current Finnish space activities and research, event reports, hobby activities, and historical reviews. Although the magazine is mainly in Finnish, it also has some articles in Swedish. The membership is available for any person interested in space activities. Currently the society has got 8 company members.

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**FIREFLY**

Member since: 2018

Web: [https://fireflyspace.com/](https://fireflyspace.com/)

Firefly Aerospace is developing a family of launch vehicles to provide industry-leading affordability, convenience and reliability for dedicated light to medium lift launches. Firefly’s Alpha and Beta vehicles utilize common technologies, manufacturing infrastructure and launch capabilities, providing LEO launch solutions for up to one and four metric tons of payload respectively. Alpha and Beta will provide the space industry with access to frequent launches at the lowest cost/kg, enabling ambitious commercial and exploration missions from LEO to the Moon. Headquartered in Cedar Park, TX, Firefly has additional presence in Washington, D.C., Dnipro, Ukraine, and Tokyo, Japan.
FLINDERS UNIVERSITY

Member since: 2014

Web: http://www.flinders.edu.au/

Department of Archaeology: research and teaching in Space archaeology and heritage.

Flinders Centre for Nanoscale Science and Technology: aerospace materials research

National Research Centre Airborne Research Australia: research and consulting in Earth observation and remote sensing

Centre for Science Education in the 21st Century: space and space science education programs

Department of International Tourism: research in space tourism

FONDAZIONE E. AMALDI

Member since: 2020

Mail: info@fondazioneamaldi.it
Web: https://www.fondazioneamaldi.it/

Fondazione E. Amaldi is the new Italian model for applied research, technology transfer and the promotion and support of the national scientific heritage. Born in 2017 from the will of the Italian Space Agency (ASI) and from the Hypatia Research Consortium, it aims to offer a new way of interpreting applied science.

Our mission is to support and promote scientific research aimed at technology transfer, focusing in particular on the space sector. We consider space a fundamental tool for the economic development of Italy, and therefore an exceptional source of innovation and improvement for the Country.

Our vision is to represent a scalable example of an innovation accelerator best practice and a creative force of networks between enlightened private companies and the public sector.

Within the Fondazione E. Amaldi there are 6 departments:

1. Business Applications: The Business Application Department aims at facilitating and promoting start-ups and SMEs, which make use of space technologies, in developing their business models and accessing the opportunities of alternative finance, both public and private.

2. Advance Manufacturing: The Advance Manufacturing Department takes care of the study and the optimization of the Powder Bed Fusion (PBF) additive productive process, i.e. the layer-by-layer fusion of metal powder.

3. Life Sciences: The Life Sciences Department is mainly focused on the design, development and characterization of devices suitable for a technology transfer process in the field of life sciences.

4. EO and Telecoms: The EO and Telecoms Department develops algorithms for information extraction from EO data.

5. Electronics and New Materials: The Electronics and New Materials Department deals with thin-film technologies and the development of complex materials through the use of PED (Pulsed Electron Deposition) technologies and sputtering.

6. Finance for Innovation: The Finance for Innovation Department offers a portfolio of opportunities that harmonize technology and finance supporting entrepreneurs, SMEs and companies in accessing blended finance coming from the European Union and European Space Agency initiatives and form Business Angels, Venture Capitalist and Corporates.

FRAUNHOFER SPACE ALLIANCE

Member since: 2018

Web: https://www.int.fraunhofer.de/

Weather forecasts, navigation, real-time transmission for satellite TV or global Internet access- space industry applications and services have become an indispensable part of daily life, underpinning the importance of space technology for a modern industrialized society.

In the Fraunhofer Space Alliance, the institutes pool their technological expertise in order to provide the industry and funding agencies such as the European Space Agency (ESA) and the European Commission with a central contact.

Fraunhofer acts as systems provider, developing a wide range of top-quality components, integrating them into an overall system and delivering that system to the customer. The sheer technological variety of the participating institutes enables the Fraunhofer Space Alliance to offer its customers a unique range of services. Its business units are Communication and Navigation, Materials and Processes, Energy and Electronics, Surfaces and Optical Systems, Protection Technology and Reliability and Sensor Systems and Analysis.
FUNDACION PARA EL DESARROLLO DE LAS CIENCIAS LA SOCIEDAD Y EL ESTADO (FUNDECISE)

Member since: 2020

Mail: aerospace.ce@gmail.com
Web: https://fundecise.com/

To develop the knowledge society using the science, Innovation, R&D Research and Development, education, International Cooperation, create new business opportunities for people, Human rights, social and economic development, international relations in the Republic of Costa Rica and Central America.

FUTURE SPACE LEADERS FOUNDATION

Member since: 2013

Mail: contact@futurespaceleaders.org
Web: http://www.futurespaceleaders.org/

The Future Space Leaders Foundation was established in 2012 to:

- Advance learning and professional enrichment of young space professionals and future leaders pursuing careers in the fields of space and satellites.

- Stimulate the professional growth and enhancement of future space professionals and to foster international cooperation and interaction among current leaders in the space field with graduate students and young professionals seeking to pursue careers in the fields of space and satellites.

- Assist graduate students and young professionals in attending space and satellite industry conferences and events through scholarships covering legitimate travel and registration related expenses.

- Organize fundraising activities and solicit donations to build scholarship funds for the purposes stated in section 3.3.

- Cooperate with the International Astronautical Foundation ("IAF") and other nonprofit organizations in supporting and encouraging the participation of graduate students and young professionals in space and satellite related conferences by establishing and administering scholarships, awards and organizing special events.

- Improve international understanding of civil, national security and commercial space activities.

- Work with other nonprofit and commercial entities in the space and satellite related fields to organize events and activities that seek to further the goals of the Foundation.
G.A.U.S.S. SRL

Member since: 2014
Web: http://www.gaussteam.com/

G.A.U.S.S. Srl- The company business is mainly related to the design and realization of microsatellites, which are also intended as CubeSat, Pocketqube and releasing platforms. The main project of the Company is called UniSat. In the frame of the UniSat program, 3 satellites have been launched starting from -2000. In the most recent launches, UniSat was also a platform and it was able to release 4 CubeSats, thus letting G.A.U.S.S. being a small satellites launch provider. G.A-U.S.S. activities include also structural design, realization and integration of the main subsystems and payloads and all the ground segment operations.

The scientific and educational mission of the company is also very important: several experiments are boarded on the microsatellites, ranging from space debris observation instruments to space biomedicine.

GEO-INFORMATICS AND SPACE TECHNOLOGY DEVELOPMENT AGENCY (GISTDA)

Member since: 2010
Mail: info@gistda.or.th
Web: http://www.gistda.or.th/

Thailand has been involved in satellite remote sensing since the launch of NASA ERTS-1 Programme in 1971 through Thailand Remote Sensing Programme (TRSP) under the National Research Council of Thailand (NRCT). In 1979, TRSP was elevated to become one of the NRCT’s division, namely Thailand Remote Sensing Center (TRSC).

TRSC serviced and promoted utilisation of remote sensing data for management of natural resources and environment in Thailand. In 1982, Thailand Ground Receiving Station was set up as first of its kind in Southeast Asia. Then TRSC became satellite data distributor to users worldwide. The available satellite data are such as LANDSAT, SPOT, NOAA, ERS and MOS. In 1993, GIS Coordinating and Promotion Section was founded under the Information Center of Ministry of Science, Technology and Environment (MOSTE) in order to promote the use of GIS technology and to coordinate among users with an attempt to set up GIS standards and GIS Index Database for data exchange at national level.

In order to enhance the utilisation in remote sensing and GIS, Geo-Informatics and Space Technology Development Agency (Public Organisation): GISTDA was established on 3 November 2000 as a public organisation which assumes all responsibilities and activities for space technology and geo-informatics applications.

The THailand Earth Observation Satellite (THEOS) is the first operational earth observation satellite of Thailand. The THEOS program was developed by GISTDA, EADS Astrium, the prime contractor, initiated work on the satellite in 2004. On 1 October 2008, THEOS was successfully launched by Dnepr launcher from Yasny, Russia. Today, GISTDA is developing a worldwide network of distributors to allow the users to use and access to all GISTDA products.

GERMAN AEROSPACE INDUSTRIES ASSOCIATION (BDLI)

Member since: 2013
Mail: hess@bdli.de
Web: http://www.bdli.de/en/

The German Aerospace Industries Association (Bundesverband der Deutschen Luft- und Raumfahrtindustrie e.V.- BDLI) with more than 200 members represents the interests of an industrial sector, which owing to international technology leadership and worldwide success has become a significant driver of economic growth in Germany. Combining almost all strategic key technologies, the German aerospace industry with a directly employed labor force of around 100,700, achieves an annual turnover of currently Euro 28.4 billion. Communication with political institutions, authorities, associations and foreign representations in Germany is a major task of the BDLI, as well as a variety of services in Germany and abroad for its members.

The BDLI is responsible for organizing the ILA Berlin Air Show International Aerospace Exhibition. The BDLI is officially accredited to the German Bundestag where it performs specific, legally embodied tasks. The BDLI is a member of the European umbrella organization ASD, Aerospace and Defence Industries Association of Europe, and the Federation of German Industries (Bundesverband der Deutschen Industrie- BDI).
GIFAS
Member since: 2008
Mail: infogifas@gifas.asso.fr
Web: https://www.gifas.asso.fr/

GIFAS, the French aerospace industries association, has more than 300 members, from major prime contractors and system suppliers to small specialist companies. They cover the full spectrum of skills from the design, development and production of aerospace systems and equipment to maintenance and operation. Activities extend from civil and military aircraft and helicopters to engines, missiles and armament, satellites and launch vehicles, plus aerospace, defence and security major systems, equipment, subassemblies and associated software. GIFAS, has three main objectives: to represent and co-ordinate, to analyse and defend trade interests, to promote and train.

GK LAUNCH SERVICES - JOINT-STOCK COMPANY
Member since: 2020
Mail: info@gklaunch.ru
Web: http://gklaunch.ru/en/

GK Launch Services is an operator of Soyuz-2 commercial launches from the Russian space ports, which was established to keep up with the growing international demand for satellite launches and to keep pace with the global satellite launch market. The company was established by the decision of State Space Corporation “Roscosmos” to conclude and implement commercial contracts for the launch of spacecraft using Soyuz-2 family launch vehicles from Russian spaceports. GK Launch Services is a joint venture of GLAVKOSMOS, a subsidiary of ROSCOSMOS State Space Corporation, and private INTERNATIONAL SPACE COMPANY KOSMOTRAS. Established in 2017.

GLOBAL STUDENT COMMERCIAL SPACE SOCIETY (GSCSS)
Member since: 2014
Web: http://gscss.org/

The Global Student Commercial Space Society’s (GSCSS) mission is to captivate and engage STEAM (science, technology, engineering, arts, and math) focused high school / gymnasium students to become advocates for the development of commercial and private space, empowering those students as catalysts for, and future leaders of, a permanent private human presence in space.

Founded by a current high school student attending gymnasium in Finland, the GSCSS will serve as a way of connecting like-minded youth from across the globe to discuss, and promote, their shared vision of the robust, commercially based, and economically viable human settlement of space.

To accomplish this, the GSCSS will publish a semi-annual journal of articles and artworks sourced globally, written and created by international high school students. Using a panel of experts from National Space Agendas, universities, and the private space sector, submissions will be evaluated for inclusion in each semi-annual Journal. Feedback and encouragement will be provided to each student regardless of their ultimate selection for publication. As the Society grows, other events will be developed in partnership with likeminded organizations internationally.
Our goal is to support our client's processes by dint of technologically advanced solutions, providing integrated systems, specialised products and services covering the whole life cycle. These range from consultancy and engineering services up to the development of software and hardware, the integration of turnkey systems and operational backup.

GMV is a privately owned technological business group with an international presence. Founded in 1984, GMV offers its solutions, services and products in very diverse sectors: Aeronautics, Banking and Finances, Space, Defense, Health, Security, Transportation, Telecommunications, and Information Technology for Public Administration and large corporations.

In the global world we live in, the individual and complex needs of our clients are usually met with technological products, solutions and services that are constantly evolving and that were not originally designed with the clients’ specific needs in mind, but rather to cater to the common denominator in a global market.

The leadership position that GMV has attained in these sectors is based on an in-depth knowledge of client needs, which allows us to deliver solutions specifically tailored to their individual requirements. GMV offers clients the best solution, fully adapted to their own requirements and including all the support necessary to achieve optimum results at a suitable price. At GMV, our employees, operating model and cultural values focus on meeting the very needs of each individual client.

GomSpace is an entrepreneurial company incorporated in 2007. The company is based on the experience gained by the entrepreneurs while doing research and development at the University of Aalborg in Denmark.

The entrepreneurs were the driving force behind the first European Cubesat, called AAU-Cubesat, which was launched in June 2003 and has since been involved with a number of other university/educational satellite projects including AAUSAT-II, SSETI-Express and Baumanetz before setting up the company to start commercialisation of the results.

GomSpace has significant and broad expertise within small satellite technology and concepts with focus on integrated solutions. We do electronic and software engineering with focus on developing cost-effective and reliable solutions for small satellite systems. Another significant area of expertise is Model Based Control and Estimation. We take part in the full development cycle of a control system: instrumentation, mathematical modelling, algorithm development and verification, implementation, and continuing support.

This knowledge is applied in space related projects as well as non-space related projects. The market for pico- and nano- satellite solutions is still in its infancy, like the microsat market of the eighties. GomSpace is determined to introduce solutions and systems that will unlock the technological potential and commercial opportunities.

Graz University of Technology is an important university in the international research and education network of engineering and science. It is rich in tradition and future oriented in equal measure, with a claim to excellence in its top fields. Based on scientific bachelor’s programmes, it concentrates on research-oriented master’s and PhD programmes.
Graz University of Technology produces top performers and managers much in demand and contributes to the sustainable development of society, economy and environment in a responsible way. In its areas of excellence, Graz University of Technology counts among the top 10 European universities. It cultivates a well-balanced relationship between basic and applied research. Its expertise makes it a preferred co-operation partner of industry and business.

The master’s and PhD programmes of Graz University of Technology are very much in demand internationally. Graz University of Technology is significantly increasing the achievement potential and attractiveness of Styria as a location for technology, science and education, and sees itself as a gateway to Southeastern Europe.

Its family and women-friendly orientation and its diversity management make it a desirable employer. Graz University of Technology has a strong alumni network for mutual support and advancement.

GUMUSH AEROSPACE & DEFENSE

Member since: 2013
Mail: suerm@gumush.com.tr
Web: https://gumush.com.tr/

GUMUSH Aerospace & Defense’s primary activities are focused on, Pico to Nano satellite design, subsystem design, space mission’s consulting, satellite simulations (structural, thermal, orbit, electronics and RF), qualification tests & certification for satellites, orbit design and ground station works. It can be detailed as, Space Systems- [Power systems, solar panels, battery systems, on-board computers, communication subsystem, spacecraft structures, space-wire and space-borne GPS systems], Thermal & Orbit & RF Design- [Trajectory design and optimization, orbit thermal analyses, thermal design, sensitivity analyses, thermal vacuum chamber tests, antenna design & placement], Structural Design- [Quasi-static, frequency response analyses, shock, acoustic, heat transfer, modal, vibration tests and analyses] and Software Development- [Embedded software, spacecraft software, ACS analyses and image processing].

HE SPACE

Member since: 2008
Mail: jobs@hespace.com
Web: https://www.hespace.com

HE Space is an international contracting services company dedicated to the space sector. We support your business by matching your needs with available space talents. Our company is well-known for providing customized services to the European space market since 1982. HE Space collaborates with institutional space organizations, major space companies, and New Space start-ups.

We care about the employees, improve their professional and personal development as well as their work-life balance. HE Space is an active member of the worldwide space family and is growing constantly. We stand out in the business with a fast response to requests and a database full of space qualified candidates. Our company provides high quality staff who can quickly contribute to projects.

HERMANN-OBERTH-RAUMFAHRT MUSEUM E.V.

Member since: 2014
Web: http://www.oberth-museum.org/

Museum dedicated to life, work and effectively of Space pioneer Hermann Oberth. Museum has its main focus at beginning era of the German and international space flight movement in the 1920s and 1930s.
Hermes Engineering focuses on R&D on electronic devices. We are specializing in test and development and of PCBAs for satellites, launch vehicles and communication devices. We are also doing the assembly of the PCBAs after development.

High Technology Unit (UAT) Faculty of Engineering- UNAM

Member since: 2018
Web: http://www.ingenieria.unam.mx/EN/

The High Technology Unit (UAT) of the school of engineering, National and Autonomous University of Mexico (UNAM), founded in 1792, has pioneered the development of all the fields of engineering in the american continent.

Mission: To become a high technology development center where highly trained human resources are prepared in the areas of aerospace and automotive engineering, through teaching, research and technological innovation activities. To train students specialized in the management of the Ground Space Station, mechanical vibrations, EMC and the thermo-vacuum chamber operation, which allows to test Nano and microsatellites of different sizes.

Vision: To become a worldwide reference for higher education institutions, excelling in the delivery of top quality training courses in the disciplines of Automotive and Aerospace Engineering and building a strong sense of social, ecological and true human values. The above will facilitate the development of innovative solutions that satisfy the needs of both public and private sectors.

Hong Kong Aerospace Technology Group

Member since: 2019
Mail: info@hkatg.com
Web: http://www.hkatg.com/

Micro satellite manufacture
Satellite data receiving and processing
Satellite remote sensing applications
Satellite navigation applications
Satellite communication applications.

Hungarian Astronautical Society (MANT)

Member since: 1959
Mail: mant@mant.hu
Web: http://www.mant.hu/

The HAS (Hungarian Astronautical Society, abbreviated as MANT in Hungarian) is a civil organisation that gathers Hungarian space researchers, users of space technology and everyone who is interested in the interdisciplinary and state-of-the-art uses and research of outer space.

Our aim is to raise public awareness about space exploration and uses. We also provide an opportunity for space enthusiasts to meet, exchange ideas and work together. HAS, through its members from various fields of science, organises conferences, youth forums, summer space camps, issues periodicals, releases media material and holds lectures about space research and connected scientific fields. Since 1959, HAS is a member of the International Astronautical Federation (IAF).
IABG INDUSTRIEANLAGEN-BETRIEBSGESELLSCHAFT MBH

Member since: 2011
Mail: info@iabg.de
Web: http://www.astrium.eads.net/

IABG was founded as a central analysis and testing organisation for the aeronautics industry and the Ministry of Defence in 1961 as part of an initiative by the German government. Today, it is a leading European technology and science service provider.

We employ approx. 1,000 highly qualified employees at 12 locations in Germany and the EU. The service offering of IABG includes analytical, technical and operational solutions in the following areas:

- Automotive
- InfoCom
- Mobility, Energy & Environment
- Aeronautics
- Space
- Defence & Security.

IABG is managed by its owners, is vendor neutral and represents only the interests of its customers, which include national and international companies as well as the public sector.

We have more than 50 years of experience in developing, assessing and successfully implementing new technologies for the benefit of our customers. In doing this, we leverage the synergies that arise from the combination of various competencies within the company.

INCOMSPACE

Member since: 2017
Mail: 
Web: 

Innovation in Communications and Space is a startup effort that was born out of experience and knowledge in the Telecommunications and space sectors. We work with our strategic partners to support development of projects to fulfil their dreams and goals for the future. Our commitment is to deliver the best in-depth knowledge of the Latin American region to the rest of the world for the Space and Communications sector, acting as the best initial point of contact to explore new possibilities, expand new markets or promote new products. We currently are supporting various initiatives based in Mexico focused on contributing in the development of the aerospace and telecommunications sectors. From this strong base we have the potential to involve other Latin American stakeholders to support your initiatives worldwide.

IHI AEROSPACE CO, LTD.

Member since: 1998
Web: https://www.ihi.co.jp/ia/en/

INDIAN SPACE RESEARCH ORGANISATION (ISRO)

Member since: 1989
Mail: dir.ppr@isro.gov.in
Web: http://www.isro.org/

Space activities in the country started during early 1960s with the scientific investigation of upper atmosphere and ionosphere over the magnetic equator that passes over Thumba near Thiruvananthapuram using small sounding rockets Realising the immense potential of space technology for national development, Dr. Vikram Sarabhai, the visionary leader envisioned that this powerful technology could play a meaningful role in national development and solving the problems of common man.

Thus, Indian Space programme born in the church beginning, space activities in the country, concentrated on achieving self reliance and developing capability to build and launch communication satellites for television broadcast, telecommunications and meteorological applications, remote sensing satellites for management of natural resources.
The objective of ISRO is to develop space technology and its application to various national tasks. Accordingly, Indian Space Research Organisation (ISRO) has successfully operationalised two major satellite systems namely Indian National Satellites (INSAT) for communication services and Indian Remote Sensing (IRS) satellites for management of natural resources, also, Polar Satellite Launch Vehicle (PSLV) for launching IRS type of satellites and Geostationary Satellite Launch Vehicle (GSLV) for launching INSAT type of satellites.

The Space Commission formulates the policies and oversees the implementation of the Indian space programme to promote the development and application of space science and technology for the socio-economic benefit of the country. DOS implements these programmes through, mainly Indian Space Research Organisation (ISRO), Physical Research Laboratory (PRL), National Atmospheric Research Laboratory (NARL), North Eastern-Space Applications Centre (NE-SAC) and Semi-Conductor Laboratory (SCL). The Antrix Corporation, established in 1992 as a government owned company, markets the space products and services.

INDONESIAN NATIONAL INSTITUTE OF AERONAUTICS AND SPACE (LAPAN)

Member since: 1974
Web: http://www.lapan.go.id/

INFO STELLAR

Member since: 2018
Web: https://www.infostellar.net/

Infostellar is a satellite communications infrastructure provider developing a quick and flexible ground station network called StellarStation. By lowering barriers to entry in the ground segment, Infostellar empowers newspace startups to build better missions and improve the quality of their service. Founded in 2016, Infostellar is headquartered in Tokyo, Japan.

For more information, visit https://www.infostellar.net/.

INGENIARS S.R.L.

Member since: 2020
Mail: administration@ingeniars.com
Web: https://www.ingeniars.com/

IngeniArs is specialized in design and development of innovative high-tech electronic/informatics systems in the domains of Aerospace, Telemedicine, Cybersecurity and Artificial Intelligence. For the Aerospace field, we develop and offer products/services mainly related to Communication/networking protocols, for on board spacecraft among the different acquisition instruments and subsystems for processing (i.e., SpaceWire, SpaceFibre, Wizardlink etc.), and for downlink telemetry communications with ground segment stations (i.e., CCSDS 131.2-B etc.). Our products portfolio includes intellectual properties (IP-core) implementable on space-qualified hardware technologies (FPGA, ASIC) and test-equipments in order to simplify systems validation during the development phase.

IngeniArs was founded in 2014 as University of Pisa spin-off company. We had several major achievements over the years, such as winning the European Commissions’ Horizon 2020 SME Instruments Phase 1 and 2 programmes. We are running projects with the ESA as prime contractor and we have established partnerships and business collaborations with major companies leaders in the sector (e.g. Microchip, Xilinx).

INSTITUT FRANÇAIS D’HISTOIRE DE L’ESPACE

Member since: 2000
Mail: contact.ifhe@orange.fr
Web: http://ifhe.free.fr/
The ISAE group has now achieved a size and reputation enabling it to bring together a group of schools, called the ISAE group, around the excellence of its training courses (SUPAERO, ENSICA, Masters, Ph.Ds) and its highly reputed brand.

ENSMA (National School of Higher Education in Aero mechanics and techniques), based in Poitiers since 1948 and highly reputed for its top grade engineering training and internationally-renowned research, has decided to join the ISAE group.

The vocation of the ISAE group is to bring together French higher education institutions in aerospace under a single banner, in order to extend the influence of these institutions both nationally and internationally, and to promote aerospace engineer training.

By officially confirming its membership of the ISAE group on 12 May 2011, ENSMA will keep its independence and legal personality, but has opted to share the same common values and objectives with the ISAE, focusing on three major orientations:

- superior training with the adoption of a teaching model that blends high-level scientific knowledge with contemporary socio-economic realities and personal self-realization of students,
- research with the development of a strong education-research relationship enabling future engineers to develop their creativity and their taste for innovation,
- international openness through partnerships in European and international networks and programs, enabling exchanges at engineering student, lecturer or researcher levels.

The creation of the ISAE group has already received support from institutions (GIFAS, 3AF-Association Aéronautique et Astronautique de France, the Air and Space Academy, the Aerospace Valley competitiveness cluster), local stakeholders (Midi-Pyrénées region, Poitou-Charentes region) and industrials.

The main areas of IBMP’s activities are as follows:

- Space biology, physiology and medicine; environmental, sports, extreme, aviation, high-altitude physiology and medicine; gravitational physiology; biological, physical-chemical and combined life support systems; cellular physiology; biotechnology; psychophysiology, engineering psychology and ergonomics; radiation biology; magnetobiology; exobiology
- Biomedical support of space missions, including environmental and radiation safety
- High-pressure and diving medicine; artificial breathing mixtures; hygiene and epidemiology in enclosed habitats
- Functional capabilities and mechanisms of adaptation to various environmental effects; physiology of healthy individuals; medical problems of hazardous occupations
- Application of research results into clinical medicine and national economy;
- Telemedicine
- Research to support manned exploration missions to other celestial bodies in the solar system.

iQPS Inc. is a Japanese Space start-up established in 2005 by Dr. Yasaka who also served as a Vice President of IAF during 2008 and 2012, and two other space specialists. With a mission to develop the space industry in Kyushu island, which is located in the South West of Japan, iQPS Inc. develops a high-quality radar (SAR: Synthetic Aperture Radar) satellite and aiming to contribute to the development of the world by establishing 36 satellites constellation which enables to observe a particular location anywhere in the world in around 10 minutes.
By combining AI with accumulated observation data, iQPS Inc. drives optimization of the society through global-scale insight. iQPS Inc. launched its first 1m resolution 100kg SAR satellite from Satish Dhawan Space Center in India on December 2019.

INSTITUTE OF EXPERIMENTAL AND APPLIED PHYSICS, CZECH TECHNICAL UNIVERSITY IN PRAGUE

Member since: 2020

Institute of Experimental and Applied Physics, Czech Technical University in Prague, was founded in 2002 as a scientific-academic unit of the CTU oriented toward fundamental experimental and theoretical research in subatomic physics and applications in different scientific and technical fields. The scientific program includes particle physics (cooperation with CERN), research in deep underground laboratories (dark matter, neutrino physics), structure of atomic nuclei, and detection of cosmic radiation. Research activities are based on development of progressive detection techniques (pixel semiconductor detectors within collaboration Medipix, scintillation detectors, spectrometric and imaging systems etc.). Applications are mainly dedicated to biomedicine, hadron therapy or material study (X-ray and neutron tomography).

Regarding the space oriented research of radiation fields along orbits of satellites and of cosmic rays, IEAP CTU developed integrated systems with pixel detectors (providing composition and spectral characteristics of mixed fields of radiation in energy range from keV to TeV) for different missions such as PROBA-V (ESA), radiation monitors for ISS (NASA, in collaboration with the University of Houston) or RISESAT (JAXA).

INSTITUTE OF SPACE TECHNOLOGY (IST)

Member since: 2014
Mail: info@ist.edu.pk
Web: http://www.ist.edu.pk/

The Islamabad Institute of Space Technology is a degree awarding academic body that is providing the state-of the-art education, R&D, human resource development and training that will enable graduate as well as undergraduate students to acquire hands-on experience in aeronautics and astronautics.

INSTITUTO DE AERONÁUTICA E ESPAÇO (IAE)

Member since: 2007
Mail: comunicaiae@iae.cta.br
Web: http://www.iae.cta.br/

INSTITUTO NACIONAL DE PESQUISAS ESPACIAIS (INPE)

Member since: 1988
Web: http://www.inpe.br/
INSTITUTO NACIONAL DE TÉCNICA AEROESPACIAL (INTA)

Member since: 1953

Mail: relaciones.institucionales@inta.es
Web: http://www.inta.es/

INTA is the Public Research Organization specialised in aerospace research and technology development.

Among its main functions it is worth mentioning:

- The acquisition, maintenance and continuous improvement of all those technologies that can be applied to the aerospace field.
- Performing all types of tests to check, approve and certify materials, components, equipment items, subsystems and systems that have an aerospace application.
- To provide technical assessment and services to official bodies and agencies, and also to industrial or technological companies.
- To act as a technological centre for the Ministry of Defence.

INTERNATIONAL ASSOCIATION FOR THE ADVANCEMENT OF SPACE SAFETY

Member since: 2004

Mail: spacesafety@iaass.org
Web: http://www.iaass.org/

The International Association for the Advancement of Space Safety, legally established 16 April 2004 in the Netherlands, is a non-profit organisation dedicated to furthering international cooperation and scientific advancement in the field of space systems safety. The IAASS membership is open to anyone having a professional interest in space safety.

Goals

- Advance the science and application of Space Safety
- Improve the communication, dissemination of knowledge and cooperation between interested groups and individuals in this field and related fields
- Improve understanding and awareness of the Space Safety discipline
- Promote and improve the development of Space Safety professionals and standards
- Advocate the establishment of safety laws, rules, and regulatory bodies at national and international levels for the civil use of space

INSTITUTO TECNOLÓGICO DE COSTA RICA (TEC)

Member since: 2017

Web: https://www.tec.ac.cr/

The Costa Rica Institute of Technology is an autonomous, public founded institution, dedicated to teaching, research and extension in the technology area and related activities, with purposes of the development of Costa Rica

INTERNATIONAL INSTITUTE OF SPACE COMMERCE

Member since: 2011

Web: http://www.iisc.im/

The International Institute of Space Commerce, or simply ‘the Institute’, has been established on the Isle of Man through a partnership between the International Space University (ISU) and the Manx Government.

The Institute’s mission is to become the leading think-tank in the study of the economics of space. It is intended to be the intellectual home for the Industry and Space Academia around the world for which it shall perform studies, evaluations and provide services to all interested parties with the ultimate aim to promote and enhance world’s space commerce to the general public.
The vision is for the Institute to act as a resource for all, being an international and non-partisan ‘Think Tank’ drawing upon new ideas and solutions to existing and future problems the space industry faces by drawing together experts from academia, government, the media, business, international and non-governmental organisations, most notably those from the ISU and its extended network of people and resources. The aim of the Institute is to broaden the professional perspective and personal understanding of all those involved in the study, formulation, execution, and criticism of Space Commerce.

The Institute is a Not for Profit Foundation and has been located at the International Business School (IBS) on the Isle of Man to capitalize on the Isle of Man’s growing importance and position in the world’s space industry.

INTERNATIONAL LUNAR OBSERVATORY ASSOCIATION

Member since: 2011
Mail: info@iloa.org
Web: http://www.iloa.org/

The Primary Goal of the ILO Mission is to Expand Human Understanding of the Cosmos Through Observation from Our Moon.

The ILOA is an interglobal enterprise incorporated in Hawaii as a 501©(3) non-profit to help realise the multifunctional ILO- to advance human knowledge of the Cosmos through observation from our Moon, and to participate in lunar base build-out. The ILOA also since 2008 has co-sponsored with its Space Age Publishing Company affiliate an international series of Galaxy Forums and a Lunar Commercial Communications Workshop.

INTERNATIONAL PEACE ALLIANCE (SPACE)

Member since: 2020
Mail: CIIC@ciic-bj.com.cn
Web: http://spacetu.org.cn/

International Symposium on the Peaceful Use of Space Technology (Health)

Under the theme of the peaceful use of space technology in life science and the development of the greater health industry, the International Symposium on the Peaceful Use of Space Technology (Health) provides a non-governmental platform for international exchanges and cooperation, while promoting discussions on the application of space technology in the medical field. Leaders and renowned experts from China, US, Russia, and Europe attend the Symposium which is held every year in China.

International Research and Innovation Institute

The International Research and Innovation Institute is a center of excellence fostering innovation around the globe. It aims to bridge research, innovation and entrepreneurship for the benefit of mankind. It positively impacts society by designing solutions for the world’s most complex business and social challenges.

INTERNATIONAL SPACE CENTER - SPACE PARK ISRAEL ASHDOD

Member since: 2014
Mail: 
Web: 

The International Space Center- Ashdod — a Center were studies and R&D takes place, where an exchange of ideas between scientists and students from all over the world occurs, who want to promote, explore and develop new technologies internationally in many areas; where the promotion of exploration, and the development of new research programs, organized workshops and scientific collaborations with international science and space communities shall be promoted and thrive.
INTERNATIONAL SPACE UNIVERSITY (ISU)

Member since: 1988
Web: https://www.isunet.edu/

The International Space University is a private non-profit institution, formally recognised as an institute of higher education in France by the French Ministry of Education (decree MENS0400386A of 27 February 2004).

It specialises in providing graduate-level training to the future leaders of the emerging global space community at its Central Campus in Strasbourg, France, and at locations around the world. In its two-month Space Studies Program and one-year Masters program, ISU offers its students a unique Core Curriculum covering all disciplines related to space programs and enterprises, space science, space engineering, systems engineering, space policy and law, business and management, and space and society. Both programs also involve an intense student research Team Project providing international graduate students and young space professionals the opportunity to solve complex problems by working together in an intercultural environment.

Since its founding in 1987, ISU has graduated more than 3300 students from over 100 countries. Together with hundreds of ISU faculty and lecturers from around the world, ISU alumni comprise an extremely effective network of space professionals and leaders that actively facilitates individual career growth, professional activities and international space cooperation.

INTERNATIONALER FÖRDERKREIS FÜR RAUMFAHRT- HERMANN OBERTH- WERNHER VON BRAUN E.V.

Member since: 1971
Mail: robert@schmucker.de
Web: http://www.ifr-raumfahrt-gesellschaft.de/

The IFR is forwarding and passing on the ideas and visions of the astronautical pioneers Hermann Oberth, Wernher von Braun and Eugen Sänger, in order to generally promote the dissemination and public acceptance of spaceflight.

 Honouring distinguished persons of great merit in the areas of politics, science and economy is an essential constituent of the IFR efforts. Hence, the IFR awards the Hermann Oberth medal, the Wernher von Braun medal, the Hermann Oberth honorary ring and the Wernher von Braun honorary ring for outstanding merits in the field of spaceflight.

The Hermann Oberth junior staff price is awarded to relevant merits of young engineers and scientists within the frame of the world-wide annual IAF conference. The IFR pays attention to activities with and for the young and upcoming generation also in non-academic areas. In this respect should be mentioned: The intention of a “summer academy”, support given to activities of model rocket sports clubs, cultivation of the idea of a museum, as well as maintenance of and care for historically conscious documentation.

The IFR organizes annually an astronautical conference designed for the general public, presenting top level experts from all fields of astronautics: economy, legal issues, medicine and environmental aspects, science, technology, politics and management etc. The objective is to present to the interested citizens, as far as possible, a clear, unbiased and actual picture of astronautics, its potential chances and trends, but also to present a true picture of its limits as given by mother nature and technologies.

The IFR understands its role as representative of the full range of international and not only regional activities and interests. The IFR, by tradition, is obliged to the progress of mankind, to peace and understanding among nations, contributing its share by its activities.

The IFR is a non-profit organisation.

INTERSPUTNIK INTERNATIONAL ORGANIZATION OF SPACE COMMUNICATIONS

Member since: 2014
Web: http://www.intersputnik.com/
Founded on November 15, 1971 under the Agreement on the Establishment of the Intersputnik International System and Organization of Space Communications, the Intersputnik International Organization of Space Communications (Intersputnik) is an intergovernmental satellite organization headquartered in Moscow, Russia.

Intersputnik can be joined by the Government of any state, which shares the principles of its activity.

Presently, Intersputnik has twenty six member countries, which represent virtually all geographic regions from Central America to South-East Asia, and from Europe to Africa. The Governments of the Intersputnik member countries appointed twenty four Signatories from among national telecommunications organizations and telecommunications administrations.

Intersputnik’s mission is to contribute to the consolidation and expansion of economic, scientific, technological and cultural relations using satellite telecommunications, video and audio broadcasting, and to support cooperation and coordination of the efforts of the member countries aimed at designing, procuring, operating and expanding an international satellite telecommunications system.

INVAP S.E.

Member since: 2010

Web: http://www.invap.com.ar/

INVAP is a company devoted to the design and construction of complex technological systems, with more than 30 years of history in the domestic market and more than twenty in the international scene.

Its mission is to develop state-of-the-art technology in different industrial, scientific and applied research fields, thus creating “technological packages” with high added value, to meet domestic requirements or to be exported to international markets. With its long expertise in the design, implementation and administration of highly complex multidisciplinary projects, INVAP is able to create products and services to meet the client’s needs, fulfilling all the stages of a project: from the initial technical advice to the delivery of turnkey plants.

Its main activities are focused in the following areas: Nuclear, Aerospace, Government & Defense and Industrial and Medical Equipment.

INVAP has designed and built several research and radioisotope production reactors worldwide, low orbit Earth observation satellites, industrial plants, radar systems and radiotherapy centers, among other developments.

Domestically, INVAP holds a close relationship with the Argentine Commission of Atomic Energy (CNEA) and the Argentine Space Commission (CONAE), institutions with which it has jointly accomplished major projects. Internationally, the company is related to numerous organizations, such as the US National Aeronautics and Space Administration (NASA), the International Atomic Energy Agency (IAEA), the Australian Nuclear Science and Technology Organization (ANSTO) and the Egyptian Atomic Energy Authority (AEA).

About 80% of INVAP’s staff is comprised of highly qualified technicians and professionals, organized in dynamic structures that may easily adapt to form working groups for the various projects developed by the company.


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The Iranian Space Agency is responsible for all peaceful activities undertaken by all relevant authorities in the area of space science and technology. This agency is focal point and representatives of the government of Islamic Republic of Iran in all international space-related organizations and forums. The main duties of the agency include designing and manufacturing research and operational satellites, and developing and expanding space applications across the country.

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IRANIAN SPACE AGENCY

Member since: 2013

Mail: int@isa.ir
Web: http://www.isa.ir/index.php

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The Iranian Space Agency is responsible for all peaceful activities undertaken by all relevant authorities in the area of space science and technology. This agency is focal point and representatives of the government of Islamic Republic of Iran in all international space-related organizations and forums. The main duties of the agency include designing and manufacturing research and operational satellites, and developing and expanding space applications across the country.
ISPACE, INC

Member since: 2017
Web: https://ispace-inc.com/

ispacespace is a space robotics company focused on developing miniaturized technology to discover, map, and utilize resources in space. ispace designs, manufactures, and manages robotics for Team HAKUTO, a front running Google Lunar XPRIZE team. ispace and Team HAKUTO are sending the first privately developed micro-rover to the Moon by March 2018 in an attempt to win the $20M XPRIZE and conduct preliminary prospecting activities.

ISRAEL AEROSPACE INDUSTRIES LTD.

Member since: 2000
Mail: corpmsg@iai.co.il
Web: https://www.iai.co.il/

Israel Aerospace Industries (IAI) is a globally recognized leader in development and production of military and commercial aerospace and defense systems. IAI has accumulated nearly half a century of experience in creating and supplying advanced systems for the Israel Ministry of Defense and for many demanding customers worldwide.

IAI is the largest aerospace & defense company and the largest industrial exporter in Israel. IAI strives to be a world leader in all of its main areas of activity.

IAI provides unique system-of-systems solutions for a broad spectrum of needs in space, air, land, sea and homeland defense, including:

- Business jets
- Unmanned air vehicles (UAV),
- Radars, mission aircraft and AEW aircraft
- EW, ELINT/ESM, SIGINT and COMINT/COMJAM
- Anti-Tactical Ballistic Missiles (ATBM)
- Missiles and smart weapons
- Satellites, ground stations and space launchers
- Upgrading of military aircraft and helicopters
- Maintenance and conversion of commercial aircraft, including conversion to aerial refueling
- Navigation systems, EO payloads, communications and many other technologies, products and services.

IAI’s invests substantially in research and development, including investments in green tech products

ISRAEL SPACE AGENCY

Member since: 1996
Web: http://www.most.gov.il/index.php/en/israel_space_agency

ISTANBUL TECHNICAL UNIVERSITY

Member since: 2011
Mail: intoffice@itu.edu.tr
Web: http://www.itu.edu.tr/

Having 239 year prominent history, a contemporary education environment and an impressive faculty, Istanbul Technical University has been distinguished in Turkey with its engineering and architecture education. Istanbul Technical University had undertaken the leadership in the Ottoman Empire reformation movements and had invaluable influence on the reconstruction, modernization and administration of our nation during the Republican Period of Turkey.

ITU graduate engineers and architects had devoted tremendous effort on building the infrastructure in the cities and villages of Turkey, such as, bridges, factories, buildings, power plants, telecommunication networks.
Istanbul Technical University is a state university that defines the professions of engineering and architecture in Turkey that provides a modern education environment to the students while possessing its conventional structure. ITU educates its students as the future pioneers in engineering and architecture not only in national but also in international environments by establishing strong relations with international institutions.

ITALIAN SPACE AGENCY (ASI)

Member since: 1989

Mail: urp@asi.it
Web: http://www.asi.it/

The Italian Space Agency, created in 1988, coordinates the Italian efforts in space. The ASI range of activities goes from space science to earth observation, telecommunications, navigation and launchers development.

Italy is the third country in terms of contribution in the European Space Agency and participates in the EU program as Galileo and GMES. ASI has a long tradition experience in space scientific missions at ESA level and in cooperation with NASA. Indeed, ASI has significantly contributed to space exploration embarking many scientific payloads aboard NASA and ESA satellites for discovering the secrets of Mars, Jupiter, Saturn and Venus and for the study of cosmology.

Other scientific payloads have been carried out for the astrophysical study of high energy and black matter as AMS on board the ISS. Italy is the first European country in terms of investment involved in the ISS through ESA participation and with a NASA agreement.

In 20 years five Italian astronauts flew with Italian and ESA flag. Two new astronauts will fly in 2013 (Luca Parmitano) and 2014 (Samantha Cristoforetti). ASI developed the first four COSMO-SkyMed satellites of a space radar system for Earth Observation, able to collect 1800 data per day and to ensure rapid intervention in crisis-stricken areas and measure the effects of climate change. ASI is deeply engaged in international bilateral cooperation with many partners in the five continents. At multilateral governmental level Italy is member of the UNCOPUOS and GEO. ASI is member of CEOS, IADC, ICG, ESPI, EURISY and IAF.


JAPAN AEROSPACE EXPLORATION AGENCY (JAXA)

Member since: 2003

Web: http://www.jaxa.jp/index_e.html

Japan Aerospace Exploration Agency (JAXA) was established in October 2003 by merging the National Space Development Agency, Institute of Space and Aeronautical Science and National Aeronautics Laboratory. JAXA functions as the space agency of Japan, to implement a range of activities covering basic research, development and utilisation.

With about 1,500 staff, JAXA carries out the following main activities:

- Promoting satellite utilization to enhance the quality of life,
- Advancing scientific knowledge of the universe and the origin of life,
- Exploring the Moon and planets, to broaden the horizon of human activity,
- Ensuring the operation of the ISS and promoting space environment utilisation to create new opportunities for the society. Developing rocket technologies, to respond to diversifying launch needs,
- Advancing engineering research, to pursue aviation safety and environmentally-friendly technologies,
- Pursuing fundamental engineering research, to carry out autonomous space activities.

JAXA has also offices and centers to undertake educational activities and to pursue collaborations with industry and academia. JAXA has its offices and centers throughout the country, including those in Tokyo, Tsukuba, Sagamihara as well as space centers with launch sites in Kagoshima. There are also overseas offices, in Washington, D.C., Houston, Bangkok, Paris and Moscow.
The business operations of Japan Manned Space Systems Corporation (JAMSS) is classified into following four areas. The first is the operation of and user support for “Kibo”, the experiment module run by Japan at the International Space Station (ISS). We take care of training for astronauts staying in “Kibo”, ground-based management and engineering support, total back-up for experiments aboard “Kibo”, and support for the operation of the “Kounotori” vehicle that ferries supplies to the International Space Station.

The second is satellite development, management and utilization. We develop and manage satellites, and provide engineer support for new uses of satellites to monitor the earth, prevent and from disasters.

The third is safety and product assurance. We perform detailed evaluations of the safety, reliability and maintainability of parts and equipment to be taken in space, and make recommendations as appropriate.

The fourth is new business development. We are working on research and development projects, in order to help human live comfort ability in space, for the forthcoming manned space missions, and also to make space technology useful in daily life.

Further progress of the aerospace engineering is expected as a leading field of the science and technology. More than sixty years after the world war, aerospace industry in Japan has made a progress to proceed in our own foot. With this progress, our society has actively conducted international exchanges and cooperation with the other societies in Japan as well as enhancement of our journals. It is difficult to obtain the cutting-edge information in the wide field of aerospace engineering. However, our society has 15 authorised technical committees covering various technical fields to select the principal topics for the conferences and the journals.

Its mission is to provide the opportunity to present and report the fundamental and applied researches, exchange their knowledge, and provide the information to enhance and promote the researches in aerospace field and contribute to further advancement of academia in Japan.

Main Activities
- Issue of journals
- Conferences and technical tours
- Contract for research and investigation
- JSASS Award
- Students Awards
- Recommendation of candidates to win science and technology grants
JOANNEUM RESEARCH
Member since: 2011
Mail: pr@joanneum.at
Web: http://www.joanneum.at/

JOANNEUM RESEARCH is a professional innovation and technology provider with a track record of 30 years in cutting-edge research at international level. It focuses on applied research and technology development, thus playing a key role in technology and knowledge transfer in Styria.

JSC GLAVKOSMOS
Member since: 2014
Mail: mail@glavkosmos.ru
Web: https://www.glavkosmos.com/en/

JSC Glavkosmos is responsible for fulfilling auxiliary works to provide for coordination at outer economic activity of the Federal Space Agency (ROSCOSMOS), to implement international contacts, stipulating preparatory and auxiliary ground works.

JSC NPO ENERGOMASH
Member since: 2012
Mail: energo@online.ru
Web: http://engine.space/eng/dejatelnost/engines/

NPO ENERGOMASH named after academian Valentin Petrovich Glushko, known earlier as GDL-OKB (Gasdynamic laboratory- Experimental Design Bureau)- the leading Russian enterprise on development of powerful liquid propellant rocket engines (LPRE).

The liquid propellant rocket engines developed in NPO ENERGOMASH reliably put into orbit practically all domestic space objects, since the first artificial satellite of the Earth, the first spacecraft with the man onboard, up to “Mir” orbital station and “Energiya” super-power rocket with “Buran” space plane. Accumulated by NPO ENERGOMASH huge experience of creation of liquid propellant rocket engines, possession of unique technologies has provided a favorable basis for cooperation with the various aerospace organizations and companies of all world.

JSC SRC PROGRESS
Member since: 2009
Mail: mail@samspace.ru
Web: http://www.samspace.ru/ENG/

JSC SRC Progress is a leading Russian enterprise on development, manufacturing and operation of middle-class launch vehicles and automatic spacecraft for remote sensing of the Earth for scientific purposes. Under TsSKB-Progress development there were launched 1740 LV and 980 SC.
Wyle provides a wide range of engineering and trusted agent services to a broad spectrum of government and industry organizations. Today, Wyle is recognized as a leading provider of specialized engineering, scientific, and technical services to the Department of Defense, NASA, and a variety of commercial customers. With 4,800 highly specialized and dedicated employees at 50-plus primary facilities nationwide, the company generates annual revenues of approximately $1.2 billion from its core customers, the Department of Defense, NASA, and the nation’s leading aerospace contractors.

KENYA NATIONAL SPACE AGENCY

Member since: 2013
Mail: njorokim2@yahoo.com

The activities of KNSA are:

1. conduct research, co-ordinate research-based services and update the Kenya space science policy to reflect the current trends in the use of space science and technology,
2. initiate training aimed at ensuring adequate transfer of space technology and its application,
3. provide leadership in the implementation of all capacity building programmes on space science and technology,
4. promote peaceful uses of space science applications including but not limited to satellite earth observations, navigation, telecommunication and disaster management,
5. provide leadership in the implementation of the space science and technology strategic planning

The newly-established Khalifa University of Science and Technology (KU) combines the Masdar Institute of Science and Technology (MO, the Khalifa University of Science, Technology and Research (KUSTAR) and the Petroleum Institute (PI) into one world-class, research-intensive institution, seamlessly integrating research and education to produce world leaders and critical thinkers in applied science and engineering. Khalifa University endeavours to be a leader among research intensive universities of the 21st century, while catalyzing the growth of Abu Dhabi and the UAE’s rapidly developing knowledge economy.

KHRUNICHEV STATE RESEARCH & PRODUCTION SPACE CENTER

Member since: 1998
Mail: proton@khrunichev.com

The newly-established Khalifa University of Science and Technology (KU) combines the Masdar Institute of Science and Technology (MO, the Khalifa University of Science, Technology and Research (KUSTAR) and the Petroleum Institute (PI) into one world-class, research-intensive institution, seamlessly integrating research and education to produce world leaders and critical thinkers in applied science and engineering. Khalifa University endeavours to be a leader among research intensive universities of the 21st century, while catalyzing the growth of Abu Dhabi and the UAE’s rapidly developing knowledge economy.
KING ABDULAZIZ CITY FOR SCIENCE & TECHNOLOGY (KACST)

Member since: 1990
Mail: int_coop@kacst.edu.sa
Web: http://www.kacst.edu.sa/en/Pages/default.aspx

KACST is both the Saudi Arabian national science agency and its national laboratories. The science agency function involves science and technology policy making, data collection, funding of external research, and services such as the patent office.

Main Responsibilities:

1. Propose a national policy for the development of science and technology and develop strategies and plans necessary to implement them.
2. Coordinate with government agencies, scientific institutions and research centers in the Kingdom to enhance research and exchange information and expertise.
3. Conduct applied research and provide advice to the government on science and technology matters.
4. Support scientific research and technology development.
5. Foster national innovation and technology transfer between research institutes and the industry.
6. Foster international cooperation in science and technology.

Associated Institute: SPACE RESEARCH INSTITUTE

Kongsberg Satellite Services AS (KSAT) is a commercial Norwegian company, uniquely positioned to provide ground station and earth observation services for polar orbiting satellites. With three interconnected polar ground stations, Tromsø at 69°N, Svalbard (SvalSat) at 78°N and Antarctic TrollSat Station at 72°S, and a growing mid-latitude network, KSAT operates over 60 antennas optimally positioned for access to polar orbits.

KOREA AEROSPACE INDUSTRIES

Member since: 2016
Web: http://m.koreaaero.com/english/

Korea Aerospace Industries (KAI), the only integrated aerospace manufacturer in the Republic of Korea (ROK), has been established in October 1999 in compliance with National Desires for strategic encouragement of Aerospace Industries in Korea which are the future superior-technology and high-yield industry. Since its establishment with clear vision to become one of the top fifteen aerospace companies by 2020, KAI has endeavoured to develop Korea’s aerospace industry by securing advanced aerospace technologies, promoting related industries and developing indigenous satellite and launch vehicle products, all of which led to significant achievements in its pursuit. KAI has greatly contributed for more than 70% localization of Korea multipurpose satellite program (KOMPSAT series) being promoted as part of the national space effort. As the Korea’s representative aerospace system integrator, KAI will perform its roles and responsibility to lead domestic suppliers and material producers so that we can all meet our national aerospace vision of becoming top eight aerospace country by 2020 and responsible for the nation’s defence and aerospace development.
KOREA AEROSPACE RESEARCH INSTITUTE

Member since: 1992
Mail: webmaster@kari.re.kr
Web: http://www.kari.re.kr/english/

KOREA ASSOCIATION FOR SPACE TECHNOLOGY PROMOTION (KASP)

Member since: 2016
Web: http://www.kasp.or.kr/

The Korea Association for Space Technology Promotion (KASP) main goals are:

Seeking a cooperative development through sharing information and cooperation between the members.

Policy proposal for government to develop space technology and industry.

Achieving assigned duties from government in relation to space technology and industry.

Publicity related to space technology and industry

Holding a society and seminar, forum to develop space technology and industry.

Collecting information of domestic and foreign related to space technology and industry.

International cooperation project

Education for professional manpower training in field of space industry.

KOREA ASTRONOMY AND SPACE SCIENCE INSTITUTE

Member since: 2006
Mail: webmaster@kasi.re.kr
Web: http://www.kasi.re.kr/english/

Korea Astronomy and Space Science Institute (KASI) is the national astronomy research institute of Korea established in 1974. KASI has opened the history of Korean modern astronomy via the establishment of Sobaeksan Optical Astronomy Observatory, expanded the observational wavelength range to the radio via the establishment of Taeduk Radio Astronomy Observatory, and made a stepping stone to jump into the future astronomy via the establishment of Bohyunsan Optical Astronomy Observatory.

KASI has wide variety of research areas like optical, radio, theoretical and observational astronomy researches and is expanding its area through astronomical researches in space. Doing both pure scientific researches on the Universe and developments of space-related techniques, we are leading the space science era of 21st century.

Utilizing the brilliant astronomical history of Korea which has lasted for a few thousand years, modern astronomical facilities and instruments, and new scientific products, KASI will activate Korean astronomical research activities and jump to become one of the top-class astronomy research institutes in the world. We hope to have good relationship and cooperation with other institutes and nations.
**KYIV POLYTECHNIC INSTITUTE (NTUU KPI)**

Member since: 2013  
**Mail:** ndch@kpi.ua  
**Web:** http://inter.kpi.ua/

The National Technical University of Ukraine, ‘Kyiv Polytechnic Institute’ is one of the oldest and largest technical universities in Europe. It was founded in 1898. NTUU KPI is famous for its academic excellence and leading innovative research. NTUU KPI ranks first nationally, and is world recognized in the number of graduate academic and research programs in the top ten in their field. 40 500 students study at 29 University Colleges. NTUU KPI has drawn 1 500 students from all over the world.

Since 2011 the team of researchers and students from NTUU “KPI” have been developing the first in Ukraine 1 Unit CubeSat- “PolyItan-1”.

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**KYUSHU INSTITUTE OF TECHNOLOGY**

Member since: 2011  
**Mail:** kok-ryugaku@jimu.kyutech.ac.jp  
**Web:** http://www.kyutech.ac.jp/english/

Since the foundation of the Kyushu Institute of Technology, our fundamental principle has been “to instill a deep knowledge of science and engineering in high caliber students.” For more than 100 years, we have devoted ourselves to creating new technologies and industries, and to train “global engineers” with advanced technology in order to make them global leaders in their fields. The missions of all universities, as institutions of higher education, are education, research, and social responsibility. Since Kyutech became a Japanese National University Corporation in 2004, we have enhanced our activities to become a university with global standards built on impeccable quality.

Education at Kyutech is renowned both for our historic achievements in the advancement of industry and for a lot of programs selected by governments. Among these programs, our Initiatives for Attractive Education in Graduate Schools, Support Program for Contemporary Educational Needs, Progressive Education Program for IT Specialist Training, and University Education Internationalization Promotion Program are particularly highly evaluated. We constantly seek to improve our education programs to produce innovative students to lead in the 21st century.

Kyutech’s research programs are a special point of pride, and we have established strategic research centers as a world-leading technology hub. We pursue cutting-edge technologies and studies in the environmental, IT, aerospace, biotechnology, semiconductor, and mold & die fields. Kyutech has taken the initiative to nurture human resources for future generations through youth education, particularly through the Science Education Center and through the reeducation of highly skilled engineers.

Moreover, Kyutech can rightly claim its place as a preeminent university that has made major contributions to industry by actively working on industry- academia-government collaboration, the utilization of intellectual property, and international collaboration in research.
Land Space Technology Corporation Ltd. (referred to as ‘Land Space’ hereinafter) is a Chinese private aerospace enterprise engaged in the R&D and operations of launch vehicles. Focusing on small and medium scale commercial aerospace application market, Land Space is devoted to the development of Liquid-fuel Rocket Engines (LREs) and low-cost commercial launch vehicles with independent intellectual property rights. Land Space could complete the system and unit design, manufacture, test and delivery with highly-integrated design and innovation capability by a first-class technical team, to provide the global market with standardized launch service solutions. Land Space always considers the technical innovation and market-orientation as the core development task, and is confident to become a beneficial supplement of China Aerospace, to continuously boost its future development.

Leviathan Space Industries is developing the first private Spaceport in Latin America, with the goal of creating a space ecosystem that will facilitate inclusive and economical access to space to the region.

Libre Space Foundation (LSF) is a non-profit organization developing and supporting open-source technologies for Space. LSF is devoted to promoting knowledge and research as well as making Space and Space exploration accessible to everyone. It does so through a number of projects it runs which encourage knowledge, scientific research and innovative ideas about Space Tech. The projects are all open-source, strictly adhering to open development methodologies and governed by openness and transparency.
The projects range from the creation of the first-ever open-source Cubesat to Machine Learning for satellites and even the creation of a worldwide network of satellite ground stations, the SatNOGS project. LSF is also active in upstream space projects like deployers (PICOBUS), satellite missions (UPSAT, QUBIKs) and satellite components (SatNOGS COMMS). LSF shares its vision with a diverse community of contributors and supporters from around the world.

LIQUIFER SYSTEMS GROUP

Member since: 2020
Web: https://liquifer.com/

LIQUIFER Systems Group is a trans-disciplinary group of experts committed to innovative research and product development with space and terrestrial applications. Architecture, Science and Technology coalesce in the creation of concepts, scenarios, prototypes, systems, and products for future living and working on earth and in space. LIQUIFER Research & Development projects are generally supported by the European Union and the European Space Agency (ESA). LIQUIFER has collaborated with over fifty partners, including governmental agencies, universities, research institutions, and large and small businesses. The focus is on the advancement of knowledge for bringing humankind beyond what is known. Whether the aim is delivering humankind to unknown frontiers within our solar system, or finding strategies for more sustainable living on earth, LIQUIFER Systems Group understands that the efforts are connected and focussed towards the same goal – to improve life, and to advance knowledge through the combined efforts of Architecture, Science and Technology.

LITHUANIAN MUSEUM OF ETHNOCOSMOLOGY

Member since: 2019
Mail: info@entokosmomuziejus.lt
Web: http://www.etnokosmomuziejus.lt/en/

The Museum of Ethnocosmology selects, accumulates, systematizes, preserves, researches ethnocosmological information and provides it to the visitors.

Ethnocosmological information may be the following: ethnographic material therein texts, songs, rites, symbols, scientific works and science achievements (astronomy, astronautics, cosmology), space exploration technologies and the results of space programmes, audio, video or photo materials, heavenly sight through the telescope, artworks, philosophical and religious texts, etc.

We have day and night time programmes, 80 and 40 cm telescopes for public observations, educational programmes, events (for example our Museum participating at International Asteroid Day). We have about 40 000 visitors per year.

LITHUANIAN SPACE ASSOCIATION (LSA)

Member since: 2010
Mail: info@space-lt.eu
Web: http://www.space-lt.eu/

The Museum of Ethnocosmology selects, accumulates, systematizes, preserves, researches ethnocosmological information and provides it to the visitors.

Ethnocosmological information may be the following: ethnographic material therein texts, songs, rites, symbols, scientific works and science achievements (astronomy, astronautics, cosmology), space exploration technologies and the results of space programmes, audio, video or photo materials, heavenly sight through the telescope, artworks, philosophical and religious texts, etc.
LOCKHEED MARTIN CORPORATION

Member since: 1981

Web: http://www.lockheedmartin.com/

Headquartered in Bethesda, MD, Lockheed Martin is a global security and aerospace company that employs about 120,000 people worldwide and is principally engaged in the research, design, development, manufacture, integration and sustainment of advanced technology systems, products and services.

LUXEMBOURG SPACE AGENCY

Member since: 2019

Mail: info@space-agency.lu
Web: https://space-agency.public.lu/en.html

Among its core activities, the agency:
- Implements the national space economic development strategy and policy,
- Drives and leads the SpaceResources.lu initiative,
- Manages international relations in space industry-related matters,
- Represents Luxembourg within the European Space Agency (ESA) and space-related programmes of the European Union,
- Contributes to and supports United Nations activities relating to space matters, especially with regard to the SpaceResources.lu initiative,
- Manages national space research and development programmes,
- Acts as a focal point for public and private stakeholders in all matters relating to development of the space sector.

MALAYSIAN SPACE AGENCY (MYSA)

Member since: 2012

Mail: mysa_hq@mysa.gov.my

ANGKASA is the agency mandated by the government to develop the space sector for the nation. Through the National Space Policy, the country is envisioning to have the capability and capacity to capitalize space as a strategic sector for national well-being towards achieving Vision 2020 and beyond. With that, the agency is geared to develop the country’s potential in the space sector to support the economic growth and social development, and strengthening the national security.

MARS PLANET

Member since: 2018

Mail: info@marsplanet.org
Web: https://www.marsplanet.org/

Mars Planet: working to the human exploration of Mars

Mars Planet is an international cultural organization with headquarters in Italy which promotes the research and industrial applications connected to the human exploration of Mars and space. It is the Italian chapter of the Mars Society and also develops technologies to be applied both in space industry and in other sectors.

Mars Planet actively engages with small, medium and big enterprises in research related to Mars exploration, in order to support the creation of a new economy based on human space colonization. A number of organizations and companies all over the world are contributing to this new economy, which will help solving some of the most important economic and technological challenges of today.
The main project of Mars Planet is the construction of a research center called Mars City. This research center will include a Mars Simulation Area, a space dedicated to the development of technologies for robotics, virtual and augmented reality, software engineering, telecommunication, materials, energy and life support systems, as well as to scientific research and education.

A module of the project Mars City refers to the use of the Virtual Reality for the Simulation of the human exploration of the Space. Our Spinn off company: Virtual Space Systems (www.virtualspacesystems.com) is specialized in the production of VR treadmills to be used for the simulation of the human exploration of Space.

The Institute is committed to generating, disseminating, and preserving knowledge, and to working with others to bring this knowledge to bear on the world’s great challenges. MIT is dedicated to providing its students with an education that combines rigorous academic study and the excitement of discovery with the support and intellectual stimulation of a diverse campus community. We seek to develop in each member of the MIT community the ability and passion to work wisely, creatively, and effectively for the betterment of humankind.

At the Department of Migration and Immuno-Ecology, we study how living animals move across the globe, how they survive their perilous journey through time and space, and how and why they die. This includes investigations into the physiology, social interactions, and environmental parameters influencing the individual decisions of animals on the move.

The results from our studies will allow us to understand how interconnected life is, from viruses at Lake Constance to cranes crossing the highest Himalayan mountains to Galapagos giant tortoises embarking for centuries on long return migrations. Our results and technical developments support the basic scientific understanding of wild animals and are applied to safeguard a healthy planet.
MIAE intends to derive several benefits by joining the IAF. The most important benefit is related to participation. MIAE personnel will be eligible to serve on the Technical and Administrative Committees of IAF.

In addition, several members of MIAE attend the IAC every year. They will be eligible for special registration fee if MIAE joins the IAF.

MIAE will also be able to increase its visibility in the space sector internationally. Finally, by joining the IAF, MIAE members will have greater opportunity for networking.

**MDA CORPORATION**

Member since: 2001  
Mail: info@mdacorporation.com  
Web: http://www.mdacorporation.com/

MDA was incorporated in 1969 by two entrepreneurs, John MacDonald and Werner Dettwiler, with the objective of providing innovative electronic solutions for complex customer requirements. Over the past four decades MDA has created a highly skilled organization that provides communications and information solutions which improve the operational performance of business and government organizations worldwide.

**MEDES- IMPS**

Member since: 2018  
Mail:  
Web: http://www.medes.fr/fr/index.html

MEDES, located in Toulouse, is an Economic Group of Interest (Publicly-owned private organization, non-profit), whose main members are the Toulouse University Hospital, the French Space Agency, CNES, and several French Universities and University Hospitals. Since its creation in 1989, MEDES carries out activities in the field of e-Health, epidemiology, clinical research and activities or research projects related to the applications of space research or space technologies in the field of health. Moreover, this Institute is in charge of operating the Space Clinic, a centre for biomedical experiments, specialised in studies simulating the weightlessness.

MEDES staff includes various skills from medical doctors, nurses to biomedical engineers or computer engineers.

**MICROCOSM, INC.**

Member since: 1998  
Mail: microcosm@smad.com  
Web: http://www.smad.com/

Established in 1984, Microcosm is a small business, specializing in reducing space mission cost. Our experience covers commercial, military, and scientific missions from small, low-cost programs to multi-billion dollar, multi-satellite constellations and a family of launch vehicles.
MITSUBISHI ELECTRIC CORPORATION

Member since: 1998
Web: http://www.mitsubishielectric.com/bu/space/index.html

Mitsubishi Electric’s space technology includes the manufacture and implementation of satellites, satellite components, and ground systems. Over the past four decades, we have completed more satellite projects for communications concerns, government agencies, and other large-scale clients than any other Japanese company, making Mitsubishi Electric the leading company for space systems in Japan.

We have a distinct advantage when it comes to designing, building, launching and controlling satellites, because we also excel in the solar panel, antenna, amplification, tracking, control and ground station system technologies that make satellites practical to own and operate.

MITSUBISHI HEAVY INDUSTRIES, LTD.

Member since: 1998
Web: http://www.mhi.co.jp/en/products/space_index.html

Mitsubishi Heavy Industries aim to provide the next generation with an assured future of comfortable lives and happiness through technologies that excite people and our passion for manufacturing. To achieve this aim, we seek to provide further value by improving the technologies we have fostered and using new ideas and concepts to integrate our diverse technologies. From a global perspective, we work to solve the problems facing humankind and to realize everyone’s dreams.

MOHAMMED BIN RASHID SPACE CENTRE (MBRSC)

Member since: 2012
Mail: MBRSCTech@mbrsc.ae
Web: http://www.eiast.ae/

Mohammed Bin Rashid Space centre
Advancing sustainable development, and driving the vision for a knowledge economy in the UAE

Our Vision
To be recognized globally as a centre of excellence in the field of space science and technological innovation.

Our Mission
To enable the UAE to effectively create, use and exploit space science technologies and applications.

Main Line of Business
Research and development in the area of outer space
Manufacture of satellites and development of systems
Space Imaging
Ground station services and support to other satellites
KhalifaSat Launch & the Mars Probe

We are proud to have already accomplished a number of significant achievements, most notably the launches of DubaiSat 1 and DubaiSat 2 - both which continue to orbit the planet capturing stunning imagery beamed back to our headquarters.

With the ongoing preparations for the launch of the KhalifaSat - The first UAE Satellite Made 100% by UAE Nationals in the UAE - in 2017, and the recount announcement by H.H. Shaikh Mohammad Bin Rashid Al Maktoum- The Vice President, Prime Minister and Ruler of Dubai - for the unmanned Mars probe which is planned to be launched in 2020 is currently in the planning stages, the mission is only just getting started.
**MOON VILLAGE ASSOCIATION (MVA)**

Member since: 2018
Web: [https://moonvillageassociation.org/](https://moonvillageassociation.org/)

The MVA carries out the following primary activities:

addresses all parts of society, including governmental and non-governmental entities, universities, industry, professional associations, social and cultural associations, media, private individuals and decision makers,

promotes discussion and communication among government, industry, academic and public parties concerning the Moon Village and related topics,

aggregates ideas for the development of the Moon Village for peaceful purposes,

diffuses these ideas through various media and publications, including scientific journals, newspapers and magazines, television, Internet fora, blogs, social networks etc,

organizes events dedicated to the MVA objectives.

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**MOSCOW AVIATION INSTITUTE**

Member since: 1990
Mail: intstudy@mai.ru

Moscow Aviation Institute (MAI) was founded in 1930 when institutions which specialized in aviation became advanced enough to join into one aircraft engineering education center. More than 130,000 students including 1,000 international students from 40 countries have graduated from MAI after its foundation in 1930. During the early 1930’s, MAI amounted to only 290 students in 2 schools. But now at the beginning of the twenty first century, our university of aerospace technologies consists of more than 2,300 professors and lecturers including both 450 full-professors (DSc) and 1100 associate professors (PhD) who teach more than 20,000 undergraduate, graduate, and post-graduate students at 10 schools, 3 institutes, and 4 branches of the University.

Our university includes among its alumni about 100 general and chief designers, 43 members and associate members of the Russian academy of science, 250 State and Government Prize laureates, and 20 cosmonauts who spent a total of 12 years in outer space. The present-day MAI is a unique institute of higher education where a thorough theoretical knowledge combines with various practical skills. More than 120 laboratories, 3 student design offices, numerous computer centers, an experimental-design factory, and an aerodrome are available for our students. In 1993 Moscow Aviation Institute was given one more name: “State Technological University”.

Until the present, the development of Russian aeronautics and astronautics was based mostly on the activities of institute professors and alumni.

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**MT AEROSPACE AG**

Member since: 2010
Mail:
Web: [http://www.mt-aerospace.de/](http://www.mt-aerospace.de/)

A pioneering force in the aerospace industry for more than 40 years, MT Aerospace has carved its niche as an internationally respected technology forerunner and innovative expert for customized solutions.

Positioned as a key global player for the aeronautics, antennas and mechatronics markets, we are able to meet the individual needs and requirements of our customers and to open new perspectives. Our sophisticated products include propellant and high-pressure tanks as well as complex structural parts.

MT Aerospace is the largest supplier outside France to the ARIANE program, currently providing 10% of the components required for the staggering 200 plus starts already undertaken with this launcher.
MX SPACE
Member since: 2016
Mail: 
Web: 

MxSpace is a sustainable, affordable, integrated and evolving initiative to design, develop, test and fly systems that allows spatial recognition of the Earth, in order to create industrial space resources in Mexico and follows an aggressive scheduling marked by different areas like design & integration of nanosatellites systems, creation of testing facilities, and innovative payload applications for small satellites.

MxSpace includes support for the exploitation of space resources allocated to Mexico to address issues of national interest and to promote and strengthen the Mexican space sector, favouring the industrial, technological and innovative development, creating jobs highly specialized and consolidating our sector with high value-added activities.

NANJING UNIVERSITY OF AERONAUTICS AND ASTRONAUTICS
Member since: 2019
Web: http://iao.nuaa.edu.cn/

Nanjing University of Aeronautics and Astronautics (NUAA), established in 1952, one of the first batch of Chinese aviation universities, is now a research university with the characteristic of aeronautics, astronautics and civil aviation, based on engineering, which also combines science and technology, with coordinated development of multi-disciplines including engineering, science, economics, business and literature, etc.

At present, NUAA has three campuses, 3072 in-service teaching and administrative staff, including 1821 full-time teachers, more than 29000 full-time students, including more than 18000 undergraduates, more than 10000 graduate students, and more than 1000 foreign students with degree.

NUAA devotes great effort to promoting open education and collaborative innovation, successively builds production-teaching-research cooperative research bases. NUAA carries out extensive international communication and cooperation, builds long-term stable cooperative relations with more than 150 overseas famous universities and research institutes, displaying a new opening pattern of globalization.

NANORACKS
Member since: 2019
Mail: info@nanoracks.com
Web: http://nanoracks.com/

NanoRacks LLC, an XO Markets company, is the world’s leading commercial space station company. NanoRacks believes commercial space utilization will enable innovation through in-space manufacturing of pharmaceuticals, fiber optics- and more, allow for transformational Earth observation, and make space a key player in finding the solution to Earth’s problems.
Today, the company offers low-cost, high-quality solutions to the most pressing needs for satellite deployment, basic and educational research, and more—in over 30 nations worldwide. Since 2009, Texas-based NanoRacks has truly created new markets and ushered in a new era of in-space-services, dedicated to making space just another place to do business.

In 2017, the Company announced their long-term plans via the NanoRacks Space Outpost Program. This programme is dedicated to the repurposing of the upper stages of launch vehicles in-space and converting these structures into commercial habitats, both humanly and robotically tended, throughout the solar system.

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**National Aeronautics and Space Administration (NASA)**

**Member since: 1985**

**Mail:** public-inquiries@hq.nasa.gov

**Web:** [http://www.nasa.gov/](http://www.nasa.gov/)

NASA conducts its work in three principal organizations, called mission directorates:

Aeronautics: pioneers and proves new flight technologies that improve our ability to explore and which have practical applications on Earth.

Human Exploration and Operations: focuses on International Space Station operations and human exploration beyond low Earth orbit.

Science: explores the Earth, solar system and universe beyond, charts the best route of discovery, and reaps the benefits of Earth and space exploration for society.

In the early 21st century, NASA’s reach spans the universe. The Mars Exploration Rover Opportunity is still studying Mars after arriving with its twin Spirit in 2004. Cassini is in orbit around Saturn, as Juno makes its way to Jupiter. The restored Hubble Space Telescope continues to explore the deepest reaches of the cosmos.

Closer to home, the latest crew of the International Space Station is extending the permanent human presence in space. Earth Science satellites are sending back unprecedented data on Earth’s oceans, climate and other features. NASA’s aeronautics team is working with other government organizations, universities, and industry to fundamentally improve the air transportation experience and retain our nation’s leadership in global aviation.

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**National Aerospace Agency (NASA) of Azerbaijan Republic**

**Member since: 2003**

**Mail:** nasa@mdi.gov.az

**Web:** [http://www mdi.gov.az](http://www mdi.gov.az)

National Aerospace Agency (NASA) started operation within the structure of the Academy of Sciences of Azerbaijan from 1974 as a Scientific Centre “Caspiy” and in 1981 on its base was set up a Scientific-Industrial Association of Space Research.

By the Order of the President of Azerbaijan Republic from February 21, 1992 No 580 on its base was established the Azerbaijan National Aerospace Agency (ANASA, later NASA). From September 2006 by the Order of the President of Azerbaijan Republic NASA is operating under subordination of the Ministry of Defence Industry of the Azerbaijan Republic.

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**National Astronomical Research Institute of Thailand**

**Member since: 2019**

**Mail:**

**Web:** [http://www.narit.or.th/en/](http://www.narit.or.th/en/)

National Astronomical Research Institute of Thailand (Public Organization) or NARIT is a national research organization for astronomy in Thailand. In particular, NARIT is enabling the development of a collaborative research network both regionally and globally aiming at developing and strengthening knowledge in astronomy, so as to meet international standards. We are also an alliance of public and private observatories allied for excellence in scientific research, education and public outreach.
Our core mission is to undertake and to support relevant research in astronomy that are both authoritative and stimulating. NARIT provides public access to qualified researchers to forefront scientific capabilities on telescopes installed at our modern observatory in a good setting. NARIT is on the way to be a leading astronomical organization in Thailand and South-East Asia, with access to several telescopes on the national territory as well as in other countries with which it holds Memoranda of Understanding. In particular, NARIT has developed and managed the Thai National Observatory, with a new 2.4m telescope to be equipped with several modern instruments. NARIT also owns many robotic telescopes in Chile, China, and USA.

NARIT is under an auspice of the Ministry of Science and Technology, Thailand and has become a member of the International Astronomical Union since 15 August, 2006.

NATIONAL AUTONOMOUS UNIVERSITY OF HONDURAS
Member since: 2019
Web: https://www.unah.edu.hn/

Organize, lead and develop with exclusive character, the third and fourth level of higher education in Honduras.

Integrate and preside, through the rector, the Council of Higher Education.

Form professionals that the field of sciences, technology and arts demand, as well as train them in the professional responsible exercise of their learning.

Strengthen and innovate, in a permanent way, the education and training processes that can offer professional growth to contribute to the country’s development.

Generate and develop science, technology and humanities through the study of national, regional and world problems and solutions.

NATIONAL INSTITUTE OF AEROSPACE (NIA)
Member since: 2019
Mail: Web: https://www.nianet.org/

Perform research in wide variety of aerospace disciplines for government and industry customers Conduct multi-university graduate education programme

Develop inspiring public outreach products

Develop and implement custom K-20 STEM educational outreach programmes, including student competitions for government, industry and academia.

NATIONAL INSTITUTE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY (NICT)
Member since: 2016
Mail: Web: https://www.nict.go.jp/en/

The National Institute of Information and Communications Technology (NICT) promotes the full spectrum of research and development in ICT from basic to applied research with an integrated perspective, and thus promotes the advancement of Japan as an intellectual nation that leads the international community. Moreover, NICT forms close ties with the academic and business communities in Japan as well as with research institutes overseas and returns its R&D findings to society in a broad range of fields. In this way, NICT contributes to the creation of lifestyles that are affluent and safe, a society that is full of intellectual creativity and dynamism, and a world that values harmony and peace.
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA)
Member since: 2000
Mail: 
Web: http://www.noaa.gov/

NOAA is an agency that enriches life through science. Our reach goes from the surface of the sun to the depths of the ocean floor as we work to keep citizens informed of the changing environment around them.

From daily weather forecasts, severe storm warnings and climate monitoring to fisheries management, coastal restoration and supporting marine commerce, NOAA's products and services support economic vitality and affect more than one-third of America's gross domestic product.

NOAA's dedicated scientists use cutting-edge research and high-tech instrumentation to provide citizens, planners, emergency managers and other decision makers with reliable information they need when they need it.

NOAA's roots date back to 1807, when the Nation's first scientific agency, the Survey of the Coast, was established. Since then, NOAA has evolved to meet the needs of a changing country. NOAA maintains a presence in every state and has emerged as an international leader on scientific and environmental matters.

NOAA's mission touches the lives of every American and we are proud of our role in protecting life and property and conserving and protecting natural resources. I hope you will explore NOAA and how our products and services can enrich your own life.

NATIONAL SPACE RESEARCH AND DEVELOPMENT AGENCY (NASRDA)
Member since: 2005
Web: http://www.nasrda.net/

The National Space Research and Development Agency (NASRDA) is one of the Research Institutions under the supervision of the Federal Ministry of Science and Technology. The Agency was established in May 5, 1999 with a broad objective to pursue the development and application of space science and technology for the socio-economic benefits of the nation.

NATIONAL SPACE SOCIETY
Member since: 2019
Mail: 
Web: http://www.nss.org/

NSS is an independent nonprofit nonpartisan educational membership organization dedicated to the creation of a spacefaring civilization. Our vision: People living and working in thriving communities beyond the Earth, and using the vast resources of space for the dramatic betterment of humanity. NSS activities include:

The National Space Society publishes the award winning space interest magazine Ad Astra.

Additionally, we organize and host the long-running International Space Development Conference.

As of 2017, NSS initiated a new space conference — The Space Settlement Summit.

In terms of educational outreach in local communities, NSS has an international network of chapters that anyone can join.

NSS is a leader in space related educational student outreach activities.

NSS is also active on the political front with the creation of numerous space policy position papers and supporting volunteers doing space advocacy.

To further raise awareness and promote space development, NSS has organized and sponsors a number of space related contests.
NSS organizes a variety of projects to raise public awareness and promote space development. Shown is an NSS sponsored book written by Rod Pyle that documents the new age of space. In addition to Ad Astra NSS publishes Ad Astra Downlink and the Space Settlement Journal. NSS honours leaders in space exploration, development, and settlement with a variety of awards.

**NEC CORPORATION**

Member since: 2012


NEC restructured its space business organization in April 2007 in order to reinforce the framework for expanding its space-related business.

The satellite sales and development & design functions were moved from NEC TOSHIBA Space Systems to the NEC’s corporate organization. The satellite equipment sales function was included in the International Sales Division, and the system development & design function was included in the Space System Division. NEC TOSHIBA Space Systems was restructured as a business specializing in the development, design, manufacturing and maintenance of subsystems and components.

A series of restructuring initiatives resulted in the establishment of a business organization that enabled NEC to commit itself to developing its space business operations and related business responsibilities (e.g. responsibilities for agreements, systems and product quality).

**NETHERLANDS AEROSPACE CENTRE**

Member since: 1989

Mail: info@nlr.nl
Web: [http://www.nlr.nl/](http://www.nlr.nl/)

NLR is the aerospace knowledge enterprise in the Netherlands. Our research is geared towards safer, more sustainable and efficient air transport. We support government in implementation of their policies and strengthen the innovative capacity of industry. NLR’s facilities include wind tunnels, research aircraft, military and civil flight simulators, ATM tower and radar simulators and a wide variety of research and development capabilities.

**NETHERLANDS SPACE OFFICE (NSO)**

Member since: 1980

Mail: info@spaceoffice.nl
Web: [http://www.nivr.nl/](http://www.nivr.nl/)

Netherlands Space Office acts as the Dutch agency for space affairs. Netherlands Space Office (NSO) was established by the Dutch government in order to develop the Netherlands’ space programme and to bring that programme to action. The NSO is the face of the Dutch space community for international space organisations like ESA, NASA and JAXA as well as the central point of contact for the space community within the Netherlands. The NSO also works to innovatively and openly bring the story of spaceflight science, usage and exploration to teachers, students and the general public.

The Ministry of Economic Affairs, Ministry of Education, Culture and Science, Ministry of Transport, Public Works and Water Management and the Netherlands Organization for Scientific Research (NWO) signed an agreement in October 2008 for the establishment of the Netherlands Space Office. The director of the NSO reports to the steering committee of these ministries.
NETHERLANDS SPACE SOCIETY
(NVR)

Member since: 1951
Mail: info@ruimtevaart-nvr.nl
Web: http://www.ruimtevaart-nvr.nl/

Netherlands Space Society (NVR) is the foremost platform for space professionals from or working in Holland. As an organisation, we are the product of a long and rich 60 year history, and have been an advocate and representative of the innovative space sector in the Netherlands from its inception to the strong high-tech sector it is today.

We boast a network of almost 800 members- and counting. These range from students to space enthusiasts to established professionals, all of whom benefit from the varied activities an NVR membership offers. We organise community-building functions such as film nights, symposia, lectures and much more. In order to offer the very best and most diverse selection of events, we do so both independently and in collaboration with our corporate members. The space sector is one that thrives on a connected base of passionate individuals, and the NVR represents that.

Apart from our newsletters and our increasing outreach initiatives on social media, the main communication arm of the NVR today is our much-loved and respected magazine Ruimtevaart. Ruimtevaart has existed for almost as long as the NVR itself. It contains wide-ranging material and subject matter, written by the experienced editorial team and our enthusiastic volunteers. Although Ruimtevaart is a publication about and for the space sector, it is written for all with an appreciation for space- with or without technical knowledge.

NEW ZEALAND SPACE AGENCY

Member since: 2017
Mail: nzspaceagency@mbie.govt.nz
Web: https://www.mbie.govt.nz/science-and-technology/space/

The New Zealand Space Agency was set up in 2016 and is the lead government agency for space policy, regulation and sector development, sitting within the Ministry of Business, Innovation and Employment. The Agency supports rocket launches through administration of a world-leading regulatory regime. It also provides policy advice to the New Zealand Government on advancing R&D, growing New Zealand’s space industry and engaging the public on the importance of space. The Agency works closely with international partners to foster research collaboration and address common challenges in space.

NGC AEROSPACE LTD

Member since: 2014
Mail: 
Web: http://www.ngcaerospace.com/

NGC Aerospace Ltd is a Canadian high-tech SME recognised for the design and deployment of artificial vision, guidance, navigation and control systems for the autonomous operation of space, aeronautical and terrestrial vehicles.

The analyses, algorithms, simulators and real-time software developed by NGC aim at increasing the autonomy, performance, reliability and safety of these intelligent vehicles while at the same time reducing their operational cost. From theoretical concepts and innovations to satellites and autonomous rovers currently in operation, NGC has demonstrated creativity, quality, excellence and performance consistent with its motto of bridging the gap between theory and practice.
**NIGERIAN METEOROLOGICAL AGENCY**

Member since: 2005

Web: [http://www.nmets.org](http://www.nmets.org)

The Nigerian Meteorological Agency (NIMET) came into existence by an Act of the National Assembly- NIMET (Establishment) ACT 2003, enacted on 21st May 2003, and became effective on 19th June 2003 following Presidential assent. The Agency has three core professional Departments, namely- Weather Forecasting Services (WFS), Applied Meteorological Services (AMS), and Research and Training (R&T). The support Directorates includes Engineering and Technical Services (ETS), Finance and Accounts (FA), Administration and Supplies (AS), and Legal Services (LS) (which also serves as Secretary to the Board).

**NORSK ASTRONAUTISK FORENING**

Member since: 1951

Mail: naf@romfart.no
Web: [http://www.romfart.no/](http://www.romfart.no/)

**NORTHROP GRUMMAN CORPORATION**

Member since: 2018

Web: [http://www.northropgrumman.com/Pages/default.aspx](http://www.northropgrumman.com/Pages/default.aspx)

Northrop Grumman is a leading global security company providing innovative systems, products and solutions in autonomous systems, cyber, C4ISR, strike, and logistics and modernization to customers worldwide.

Since the dawn of the space age, Northrop Grumman has put innovative products into orbit, on the Moon, and beyond. From systems engineering, spacecraft manufacturing, precision sensors, space instrument design, ground stations development, orbiting space platforms and revolutionary space launch vehicles, Northrop Grumman’s space capabilities have transformed science fiction into high-flying realities for a wide variety of missions.

Our commitment to space is founded on our history and legacy, inspiring our broad portfolio today and into the future.

**NORTHWESTERN POLYTECHNICAL UNIVERSITY**

Member since: 2019

Web: [https://en.nwpu.edu.cn/](https://en.nwpu.edu.cn/)

Northwestern Polytechnical University (NPU) is a multidisciplinary, research-oriented, open university in China, with 17 academic schools, an international education college, an honors college, and a Joint Educational Institute (JEI). At present, there are more than 28,000 students and 3800 staff in NPU. The university programmes cover everything from fundamental science and engineering, to the humanities, management and social sciences. Its unique value lies in its research and education programmes in aeronautics, astronautics, and marine technology engineering. It was one of the first universities selected for the national project 211 and the project 985, both of which aimed to raise the research bar at high-level Chinese universities. And in 2017, NPU was selected into the national “Double First Class” plan, beginning its march to world-class renown.

Moreover, NPU has strong programmes in materials, mechanical engineering and mechanics, as well as computer science, communication and control sciences. Its material science discipline is ranked among the global top 0.1%, according to the latest Essential Science Indicators (ESI) subject area ranking. The discipline of Aeronautics and Astronautics Science and Technology was rated A+ in the latest round of the 4th National Disciplinary Evaluation in China.
School of Astronautics of NPU is one of the earliest to focus on the astronautical technology in China and is composed of 5 departments, 1 research institution, 2 National Key Laboratories, 2 Provincial Key Laboratories and Engineering Research Centers. There are 3 Post-doctoral Research Centers: Aeronautical and Astronautical Science and Technology, Control Theory and Control Engineering, Armament Science and Technology.

NPU is collaborating with more than 250 international university partners. Furthermore, NPU together with Chinese Society of Astronautics, initiated the “Belt and Road Aerospace Innovation Alliance” (BRAIA) in 2017, which is an international organization formed by 51 universities, research institutes, and academic organizations today. These members are from Algeria, America, Australia, Bangladesh, Belgium, China, Egypt, France, Italy, Pakistan, Russia, Spain, Ukraine, and United Kingdom. BRAIA promotes the substantial cooperation among its members in scientific research, talents cultivation and knowledge transfer of the aerospace field.

**NORWEGIAN SPACE AGENCY**

Member since: 1987  
Mail: spacecentre@spacecentre.no  
Web: [http://www.spacecentre.no/](http://www.spacecentre.no/)

The Norwegian Space Agency (NOSA) is a government agency under the Ministry of Trade, Industry and Fisheries. NOSA promotes the development, co-ordination and evaluation of national space activities as well as supports Norwegian interests in the European Space Agency (ESA) and the space programmes of the European Union.

The principal goals of NOSA are to:

- create 10 % annual growth in the space sector,
- meet national user needs,
- attain a leading international position in space research and
- maintain a leading role in space-related ground infrastructure.

**NOVESPACE**

Member since: 1997  
Web: [http://www.novespace.fr/](http://www.novespace.fr/)

Novespace, subsidiary of the French National Space Center (CNES) created in 1986, owns and operates the Airbus A300 ZERO-G. Novespace organises in-flight tests and research activities for customers worldwide mainly in parabolic flights.
Onera (Office National d’Etudes et Recherches Aérospatiales) is the French national aerospace research center. It is a public research establishment, with eight major facilities in France and about 2,000 employees, including 1,500 scientists, engineers and technicians.

Onera was originally created by the French government in 1946, and assigned six key missions:

- Direct and conduct aeronautical research
- Support the commercialization of this research by national and European industry
- Construct and operate the associated experimental facilities
- Supply industry with high-level technical analyses and other services.
- Perform technical analyses for the government
- Train researchers and engineers

All of this research is keyed to applications. Whether the research has short, medium or long-term goals, it is designed to support the competitiveness and creativity of the aerospace and defense industries. The research carried out at Onera results in computation codes, methods, tools, technologies, materials and other products and services which are used to design and manufacture everything to do with aerospace:

- Civil aircraft
- Military aircraft
- Helicopters and tiltrotors
- Propulsion systems
- Orbital systems
- Space transport
- Missile systems
- Defense systems
- Networked systems and security systems

Onera’s funding comes from two sources:

- 60%: contract research for industry and agencies
- 40%: annual subsidy from the French government

The subsidy primarily finances long-term research, which lays the groundwork for future developments. Research contracts finance medium and short-term work, closer to the application. The strategic challenge for Onera is to organize this broad knowledge stream, ranging from the acquisition of knowledge to transferring it to industry.

CGS SpA provides the user community with solutions to lower the cost of first class science and applications by:

- Exploiting the full potential of small and medium satellite missions
- Exploiting new orbital and transportation systems
- Focusing on the technologies that can be turned into products for scientific and application projects
- Developing new technologies for Earth Observation services
OHB System AG is a German systems provider belonging to the European aerospace group OHB AG. The Group currently employs over 2,400 people in its “Space Systems” and “Aerospace + Industrial Products” business units. Within this array, OHB System AG specialises in Space Systems. Its headquarters at the Bremen are home to almost 500 highly qualified scientists and engineers. The business unit generated total revenues of EUR 220 million in 2011.

OHB System AG is one of the leading independent forces in the European aerospace sector. It is the third Large System Integrator for the European Space Agency and partner to the German Aerospace Center as well as for customers in the private and public sector. OHB System traditionally works with leading national and international companies to pool the competence required for specific projects.

Open Cosmos provides end-to-end space missions based on nanosatellite platforms. It aims to make space accessible by making the process simple, fast and affordable. This is achieved by offering three key products: An online mission design software platform, payload integration and test hardware and a turn-key satellite platform, including all required test, registration, insurance, launch and operations services.
PAKISTAN SPACE AND UPPER ATMOSPHERE RESEARCH COMMISSION (SUPARCO)

Member since: 1985
Mail: am.pr@suparco.gov.pk
Web: http://www.suparco.gov.pk/

Pakistan Space and Upper Atmosphere Research Commission (SUPARCO), the national space agency, was established in 1961 as a Committee and was granted the status of a Commission in 1981.

SUPARCO is mandated to conduct R&D in space science, space technology, and their peaceful applications in the country. It works towards developing indigenous capabilities in space technology and promoting space applications for socio-economic uplift of the country.

PARAGUAYAN SPACE AGENCY

Member since: 2018
Mail: info@aep.gov.py
Web: https://www.aep.gov.py/

Organizes and promotes space related activities such as training, seminar, conference and congress.

Supports space related activities in the public and private sectors, as well as, in the academia by providing technical assistance, scholarships and networking.

Regulates all policies and monitors all activities related to space technology applications in Paraguay.

PEOPLES’ FRIENDSHIP UNIVERSITY OF RUSSIA (PFUR)

Member since: 2016
Mail: information@rudn.ru
Web: http://eng.rudn.ru/

Peoples’ Friendship university of Russia (PFUR) is one of the leading higher educational institutions of Russia. It is the only university in the world that annually unites students from about 150 countries. In the all-encompassing curriculum of PFUR, space technologies hold a prominent place and constantly continue to gain in significance as the modern world becomes all the more space-oriented in all fields of human activities. For many years various subdivisions of PFUR have been contributing to the relevant areas of space activities. Research and training in various space-related sectors were undertaken by the following departments: Agro-Technological Institute (Earth Remote Sensing and Agricultural Applications of Space Products), Academic-research Institute of Gravitation and Cosmology (Cosmology and Space Physics), Faculty of Economics (Space Activities for the Benefit of national Economies), Institute of Law (International Space Law), Engineering Faculty (Space communication and Navigation) and many others. Along with academic activities, the University carries out R&D projects commissioned by the leading Russian space enterprises. At present, an increasing number of other PFUR departments continue to integrate space-related programs into the local curriculums to raise awareness about the application of space technologies in medicine, ecology, engineering and fundamental science. In 2015, the Department for Space Flight Mechanics and the Training Mission Control Center, maintained by the said Department, were opened at PFUR. The Training Mission Control Center is a unique facility providing real-time data on International Space Station (ISS) and Earth Remote sensing information, and is aimed at enriching the educational activities and providing students with a first-hand experience of space technologies. PFUR is a frequent organizer and participant of scientific, technological and economic forums, including those dedicated to space.
PJSC “ELMIZ
Member since: 2013
Mail: info@elmiz.com

ELMIZ is specialized in production of complex electronics, control systems and automation devices for space vehicles, lighting engineering and measuring. Among their projects are “KURS”, a navigation complex of “SOYUZ” and “Progress” space vehicles docking with International Space Station, magnetometers, Inertia-less laser navigation systems and radio communication systems.

PLANET LABS
Member since: 2017
Web: https://www.planet.com/

Planet is designing, building and launching satellites faster than any company or government in history. We use commodity consumer electronics to build highly capable satellites at drastically lower costs. With the most advanced satellites launching into orbit every 3-4 months, our capabilities are on the cutting edge and always advancing.

We are more than just a profit making company. We are looking at the big picture and want to make a difference in the world. We see Planet as a global company. With offices in the US, Europe and Canada we are attracting multicultural top talent in our company. With our Dove, Rapid Eye, and SkySat satellites we currently own and operate the largest Earth Observation constellation in the world.

POLISH ACADEMY OF SCIENCES
Member since: 2012
Web: https://institution.pan.pl/

The Polish Academy of Sciences is a state scientific institution founded in 1952. From the very beginning, it has functioned as a learned society acting through an elected corporation of top scholars and research organisations, via its numerous scientific establishments. It has also become a major scientific advisory body through its scientific committees. The activities of the Academy in its present form are regulated by the Parliamentary Act of 30 April 2010.

The Academy is composed of national members (including both full and corresponding members) and foreign members. Membership in the Academy is held for life. The number of national members is set at no more than 350. All members (national and foreign) are elected by the General Assembly from among candidates with the highest scientific achievements and of recognized authority. The names of potential national members are submitted by current national members, the councils of university faculties, and the scientific councils of research establishments in Poland (including the Academy institutes). Foreign members are proposed and elected by the national members. Each member of the Academy is a member of one of the five divisions, according to her or his scientific discipline. Members are responsible for their own scientific activities as well as the statutory tasks of the Academy. The organisational structure of the Academy is comprised of divisions, territorial branches and scientific and task force committees.

POLISH ASTRONAUTICAL SOCIETY
Member since: 1956
Web: http://www.ptastronaut.org.pl/
Polish Space Agency (POLSA) was established by the Act of 26 September 2014. The task of the Agency is to support the Polish space industry by combining the world of business and science. We also help to get provision for entrepreneurs in obtaining funds from the European Space Agency (ESA). An important aspect of the Agency’s activity is to promote the development of satellite technology that can be used in everyday life, including communication, navigation, environmental monitoring and weather forecasting. The priority task of the Polish Space Agency is to take care of the security of the country and its citizens and to increase Polish defense capabilities through the use of satellite systems.

Politecnico di Milano is a scientific-technological University, which trains engineers, architects and industrial designers. The University has always focused on the quality and innovation of its teaching and research, developing a fruitful relationship with business and productive world by means of experimental research and technological transfer. Research has always been linked to didactics and is a priority commitment, which has allowed Politecnico di Milano to achieve high quality results at an international level as to join the university to the business world.

Research activity moreover constitutes a parallel path to that formed by cooperation and alliances with the industrial system. Politecnico takes part in several research and training projects collaborating with the most qualified European universities. Politecnico’s contribution is increasingly being extended to other countries: from North America to Southeast Asia to Eastern Europe. Today the drive to internationalization sees Politecnico di Milano take part in the European and world network of leading technical universities and offers several exchange and double degree programs beside many programs entirely taught in English.

Today Politecnico offers 30 Master degrees, out of which 9 have relevance to space activities.
PRATIAN LLC

Member since: 2017

Mail:
Web:

PRatian LLC has been working on several projects and attracted several investors already.

Plant Growth on Martian Regolith and Reducing Water Consumption. Study of plant growth under the effects of perchlorates on Martian surface. Also, reducing water consumption by producing an aloe vera and cellulose bead to aid plant growth.

Innovative Transportation Systems for Mars City Innovation of transportation systems for a Mars Design Contest with commercial applications on Earth.

Microgravity Research for Commercial Spaceflight Design an antibacterial system, from naturally occurring products that can be used in the absence of gravity not only for personal hygiene but for equipment safety and as a cleaning agent.


Creation of Caribbean space policies to identify ideal country resources and geographical locations used for research and development of space technologies. Such policies will help structure the space market in the Caribbean.

PROJECT MANAGEMENT INSTITUTE

Member since: 2011

Web: https://www.pwc.fr/

PMI is one of the world’s largest not-for-profit membership associations for the project management profession, with more than 650,000 members and credential holders in more than 185 countries. Our worldwide advocacy for project management is supported by our globally-recognized standards and credentials, our extensive research program, and our professional development opportunities.

These products and services are the basis of greater recognition and acceptance of project management’s successful role in governments, organizations, academia and industries.

PROXIMAI

Member since: 2020

Mail: info@proximai.com
Web: https://www.proximai.com/

AI as a Service including remote staff augmentation, custom research and AI Cloud architectures.

PTS PLANETARY TRANSPORTATION SYSTEMS GMBH

Member since: 2018

Mail: customercare@pmi.org
Web: http://www.pmi.org/

PTS Planetary Transportation Systems GmbH is a privately-funded space company, our goal is to show that it is possible to build a sustainable business in space exploration. As well as delivering cheaper and more regular opportunities for academics, industry and educational institutions to conduct lunar research, we are keen to develop the infrastructure required for future settlement on the Moon. Our industrial and academic partnerships help to drive the technological developments of Mission to the Moon, and include the development of new space-grade technologies for power utilisation, electronics, data-hosting and optical systems. PTS Planetary Transportation Systems GmbH is dedicated to democratising space, and inspiring the next generation of scientists, engineers and explorers.
The PMO's (Purple Mountain Observatory) research focuses on high-energy astrophysics, solar physics and space astronomy exploration technology, star formation through the universe and corresponding terahertz technology, artificial satellite orbital dynamics and probe methods, planetary science, ephemeral astronomy and deep space exploration, and observational cosmology and galaxy formation.

By 2020, PMO aims to use a space-based probe of dark matter to solve major scientific problems, develop technology related to Antarctic astronomy in order to construct related “big science” facilities, and improve the system for observing objects and debris in space in order to support the nation’s aerospace programs.

PWC ADVISORY

Member since: 2017

Web: http://english.pmo.cas.cn/

The PwC Space team is a part of the Public Sector Business Unit inside of the Advisory Practice. The team produces studies for the space sector based on four pillars - strategy, socio-economic impact assessments, program management and operations. Areas of expertise of the team include Earth Observation, Communication, GNSS, Launchers and Human Spaceflight. Our service offering is systematically tailored to the various challenges of our customers, such as the digital transformation, by supporting them along all the steps of their projects. The PwC space team enables its partners to identify the available levers to generate growth through their projects. Our team relies on a strong sectorial expertise, on demonstrated competencies for strategy definition to the optimization of operations, and on our access to an international and multidisciplinary network of over 200 000 skilled collaborators.

QINETIQ SPACE NV

Member since: 2011

Web: https://www.qinetiq.com/Sectors/Space

For more than 40 years QinetiQ space nv (formerly Verhaert Space) has delivered more than 100 instruments, mechanisms and avionics subsystems for manned spacecraft and exploration missions, including full satellite systems.

Our small satellites are fully designed, assembled and tested at our facilities in Kruibeke (near to Antwerp). We offer our customers worldwide turnkey solutions in remote sensing, data networking, science and security applications.

QinetiQ Space offers space mechanisms for docking, separation and one-shot opening mechanisms. We have delivered numerous instruments for scientific research for both manned and unmanned missions. Many of these facilities are used on a daily basis by astronauts on the ISS.

Our in-house developed Data Management Unit is recognised for its small mass and power consumption combined with a very high processing power and memory capacity based on flash technology. Further avionics products include payload computers, radiation spectrometers and RTUs.

In a joint venture with SES we maintain and operate the ESA Redu Ground station, offering customised solutions and services for the operation of telecom, navigation and remote sensing satellites.
Qwaltec Inc.
Member since: 2019
Web: https://qwaltec.com/

Getting your mission off the ground requires a dedicated team of problem solvers, leaders, and creative thinkers. These are the people you’ll find at Qwaltec.

Our highly motivated staff of systems engineers, technical training consultants, program managers, and technical experts have the insight and agility required to respond to highly dynamic programs.

Since 2001, Qwaltec has enjoyed a proud history of working with NASA, DoD, other government agencies, as well as a variety of commercial aerospace customers.

With expertise in creating turnkey mission control solutions—including operations, training, and systems engineering—Qwaltec is dedicated to bringing space within reach.

Rafael Advanced Defense Systems Ltd.
Member since: 2011
Mail: intl-mkt@rafael.co.il
Web: http://www.rafael.co.il/

Rafael Advanced Defense Systems Ltd, designs, develops, manufactures and supplies a wide range of high-tech defense systems for air, land, sea and space applications. Rafael was established as part of the Ministry of Defense more than 50 years ago and was incorporated in 2002. Currently, 7% of its sales are invested in R&D. Rafael’s know-how is embedded in almost all Israel Defense Forces (IDF) systems in operation today. The company has a special relationship with the IDF, developing products according to the soldiers’ specific requirements in the field. Rafael has also formed partnerships with civilian counterparts to develop commercial applications based on its proprietary technology.

Rafael is a steadily growing company with sales in 2011 exceeding $1,979M, backlog orders exceeding $3,465M, and net profits at a record level of $111M. Rafael has created partnerships with companies in Israel and with leading aerospace and defense companies overseas. Offset activities and industrial cooperation have been organized with over 20 countries worldwide. Over the last decade, international business activities have been steadily expanding across the globe, with Rafael acting as either prime contractor or subcontractor, capitalizing on its strengths at both system and subsystem levels.

Rafael’s highly skilled and dedicated workforce tackles complex projects, from initial development, through prototype, production and acceptance tests. It provides customer service and support, upgrading existing systems and offering turnkey projects involving the transfer of basic technologies or complete production facilities. Rafael current employs approximately 6,500 people. Rafael’s quality management system is certified to AS9100, ISO9001: 2008 and ISO 90003, ISO 17025, ISO 14001, OHSAS18001, and complies with CMM and CMMI (level 3).

Rafael aspires to strengthen its position even further in the international defense market, while maintaining its special contact with the IDF. It aims to enhance its acclaim as a world-class provider of quality defense products and excellent customer service. It will continue to predict the needs of future combat forces worldwide and provide the technologies and systems required by those forces.
**RAMIREZ DE ARELLANO Y ABOGADOS, S.C. LAW FIRM**

Member since: 2000  
Mail: contacto@rraya.com  
Web: http://rraya.com/

The Museum of Ethnocosmology selects, accumulates, systematizes, preserves, researches ethnocosmological information and provides it to the visitors.

Ethnocosmological information may be the following: ethnographic material therein texts, songs, rites, symbols, scientific works and science achievements (astronomy, astronautics, cosmology), space exploration technologies and the results of space programmes, audio, video or photo materials, heavenly sight through the telescope, artworks, philosophical and religious texts, etc.

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**RFA - ROCKET FACTORY AUGSBURG**

Member since: 2020  
Mail: marketing@rfa.space  
Web: https://www.rfa.space/

We are building a launch vehicle for small satellites. The overall goal is to open fair and affordable.

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**ROCKET RESEARCH INSTITUTE, INC.**

Member since: 1968  
Mail: rri@rocketresearchinstitute.org

The Rocket Research Institute, Inc., (RRI, Inc.), founded in 1943, is a non-profit educational and consulting organisation, since 1968 an Institutional Member of the International Astronautical Federation (IAF).

The RRI is staffed avocationally by engineering, space education, and safety professionals who volunteer their free time and services to guide the Institute’s research programs, space education and experiential science motivation workshops, rocket safety coordination and training activities.

The Institute addresses the safety and educational needs of space science mentoring and “hands-on” experiential programmes by maintaining access for participating individuals of static and flight test facilities for ensuring safety.

Another resource for students is the RRI’s National Rocket Safety Registry (NRSR) program, a consulting service for student space science education and safe supervised rocketry projects.

The RRI’s space education highlights have included coordination with the IAF Supervision of Youth Research Experiments (SYRE) Education Subcommittee during the 1992 International Space Year (ISY) of 14 student payload launches involving over 1,000 students and educators from 18 countries, participation at Planetfest ‘97, the Planetary Society’s celebration of the Mars Pathfinder mission, and participation in the National Mars Educational Conference held at JPL prior to the extremely successful 2012 NASA/JPL-Caltech Curiosity Mars Landing.
ROMANIAN SPACE AGENCY (ROSA)

Member since: 2011
Mail: rosa-hq@rosa.ro

Romanian Space Agency (ROSA) was established in 1991 and reorganized by a Government Decision in 1995 as an independent public institution under the auspices of the Ministry of Research and Technology (actually, the Ministry of Education, Research, Youth and Sport). ROSA is the national co-ordinating body of the space activities.

The missions of ROSA are to promote and coordinate development and national efforts in the field, and, as a Government representative, to promote international cooperation. In particular, ROSA is authorized to establish research and development centres oriented on specific objectives of the Romanian Space Programme. ROSA is developing its own research and development projects.

On behalf of the Government, ROSA is the national representative in the cooperative agreements with international organizations, such as European Space Agency (ESA) and Committee on Space Research (COSPAR), as well as bilateral governmental agreements. Together with the Ministry of Foreign Affairs, ROSA is representing Romania in the sessions of the United Nations Committee on the Peaceful Use of Outer Space (COPUOS) and its Subcommittees.

ROSCOSMOS

Member since: 1993
Mail: info@roscosmos.ru
Web: http://www.federalspace.ru/

ROVSING A/S

Member since: 2016
Mail: info@rovsing.dk
Web: https://rovsing.dk/

Rovsing A/S is an experienced Danish company developing and providing test and simulation products, systems, and software for European satellites or the NASA-ESA spaceship Orion-MPCV as well as to international customers.

Furthermore Rovsing is a renowned expert in Independent Software Validation & Verification (ISVV) in ESA projects.

Rovsing also provides on-site engineering support and services to Primes and to CSG in Kuru.

RUAG SPACE

Member since: 1987
Web: http://www.ruag.com/

As a leading supplier of space technology in Europe, RUAG Space develops, manufactures and tests subsystems and equipment for satellites and launch vehicles. From locations in Switzerland, Sweden and Austria RUAG’s space division offers a comprehensive portfolio of products and services for institutional and commercial space missions.

Heritage and flexibility as well as outstanding reliability have made RUAG Space a long lasting partner of choice for satellite and launcher primes worldwide.
The Russian Academy of Sciences was established according to the order of the tsar Peter I by the Decree of the ruling Senate of 28 January (8 February) 1724. It was reconstituted by the Decree of the Russia President of 21 November 1991 as the higher scientific institution of Russia.

The Russian Academy of Sciences is a self-governing non-profit organisation (institution) with national status. It acts on the basis of Russia Law and its own Charter. On the territory of the Russia the Russian Academy of Sciences is the assignee of the USSR Academy of Sciences.

The main goal of the Russian Academy of Sciences activity is the organisation and realisation of fundamental research aimed at the obtaining of new knowledge about the laws of the development of the nature, society, human being and promoting the technological, economical, social and cultural development of Russia.

The object of the activity and the main tasks of the Russian Academy of Sciences are:

- the development of academic and university science integration, the participation of the scientific RAS organisations in the training and retraining of specialists with higher education,
- the strengthening of the scientific relations and interaction with branch academies of sciences, with other scientific organisations which conduct fundamental and applied investigations,
- the widening of the relations between science and industry, participation in innovation activities, in the implementation of science and technology achievements, the assistance in the development of complicated branches of Russian economy,
- the development of international scientific cooperation, the realisation of the external economic activity,
- the participation in the popularisation of science, scientific knowledge and science and technology achievements.

OAO RSC Energia has been conducting activities in rocket-space industry since 1946 when the team of specialists developing long-range ballistic missiles was organized under the leadership of S.P. Korolev, the Chief Designer of rocket-space system and the founder of practical cosmonautics.

The enterprise initiated practically all lines of activity related to national rocket and space technology.

At the present time, OAO RSC Energia is the leading rocket-space enterprise in Russia, the head organization in the field of manned space systems. Its efforts are focused on building automatic space and rocket systems (launch vehicles and orbital transfer vehicles), high-tech, multi-use systems to be used in areas other than space..
Snecma is one of the world’s leading manufacturers of aircraft and rocket engines. We design, develop, produce and market, alone or in partnership, engines for commercial and military aircraft, launch vehicles and satellites. We also offer a complete range of engine maintenance, repair and overhaul (MRO) services to airlines, armed forces and other operators. Snecma’s excellence is recognized worldwide. We have dubbed this expertise “Enginology®”, to emphasize that each and every motor we make, whether alone or in partnership, expresses the sum total of our know-how and experience. Snecma is part of the international high-technology group, Safran. Over the years, we have developed some of the world’s most innovative technologies in our business.

We are also rising to today’s pressing environmental challenges, by continuously reducing engine noise and emissions. Snecma is organized in four divisions. Commercial Engines Snecma develops, produces and markets the CFM56, the world’s best-selling commercial engine, through CFM International, our equally-owned subsidiary with GE of the United States of America. Snecma is also a partner to GE on several large turbofans, the CF6, GE90, GP7200. In the regional aircraft market, Snecma and partner NPO Saturn of Russia develop and produce the SaM146 engine for the Sukhoi Superjet 100 regional jet through our joint subsidiary PowerJet. We are also developing the Silvercrest, a new jet engine designed for business aircraft. Military Engines Snecma designs, develops, produces, sells and supports jet engines for combat and training aircraft as well as turboprop engines for military transports. Our flagship products include the M53-P2 for the Mirage 2000, the M88-2 for the Rafale, and the TP400 for the Airbus A400M transport. Space Engines Snecma, the cryogenic propulsion leader on Europe’s Ariane 5 launcher, designs, develops and produces propulsion systems and equipment for launchers, space vehicles and satellites. As supplier of the Vulcain™2 and HM7B™ cryogenic engines for Europe’s Ariane 5 ECA heavy launcher, Snecma is the global leader in cryogenic propulsion. We are also the European leader in plasma propulsion with the PPS®1350 thruster, already proven on ESA’s Smart-1 lunar probe.

Services Snecma offers a complete range of maintenance, repair and overhaul (MRO) services for both commercial and military aircraft engines, used by airlines, armed forces and other operators. We invest a large share of our budget in R&D for new repair solutions, while also taking responsibility for the spare parts supply chain and managing engine maintenance contracts.

Samara State Aerospace University (SSAU) was founded in November 1942, and trains students in the different aspects of rocket and space technologies (design and manufacturing of spacecraft, carrier rockets, engines, radio equipment, materials science etc). More than 700 professors teach about 12000 students at the University.

Since its founding, over 700 years ago, Sapienza University of Rome has contributed of science and culture in all areas of knowledge and to the development of the knowledge society through research, high quality education and international cooperation.
Satellogic is the first vertically integrated geospatial analytics company, driving real outcomes for its customers with planetary-scale insights they can trust.

Satellogic’s low-Earth-orbit satellite constellation, platform, and data science teams work together to deliver end-to-end solutions at the right cost. The company makes sense of the data so customers can focus on the big decisions at hand.

With more than 170 satellite engineers, AI experts, and solution specialists, Satellogic is on a mission to deliver a fundamentally better picture of the planet and the many forces that reshape it every day. The company brings space down to earth for large enterprises and governments of all sizes who need to see for themselves how our world is changing.

Satellogic. Now you see. To learn more, please visit: www.satellogic.com

Secure World Foundation (SWF) is a private operating foundation dedicated to the secure and sustainable use of space for the benefit of Earth and all its peoples. SWF engages with academics, policy makers, scientists and advocates in the space and international affairs communities to support steps that strengthen global space sustainability. It promotes the development of cooperative and effective use of space for the protection of Earth’s environment and human security. The Foundation acts as a research body, convener and facilitator to advocate for promoting key space security and other space related topics and to examine their influence on governance and international development. Secure World Foundation is headquartered in Broomfield, Colorado, with offices in Washington, D.C. and Brussels, Belgium.

La Cité de l’espace is the main Science Center in Europe dedicated to space and astronomy, with 300 000 visitors every year. Since its opening in 1997 it has welcomed 5 Million visitors. It is located at the heart of Toulouse (France), the European capital of space. Important stakeholders of the field like Airbus Group, CNES and Meteo France took part to its foundation and are now major supporters of our institution.

Advocating for the human and cultural dimension of space, sharing advances in space and astronomy as widely as possible, inciting people to learn more, inspiring vocations, disseminating news: such are the roles of Cité de l’espace.

La Cité de l’espace displays 3000m² of permanent exhibitions including a moon rock (NASA loan), temporary exhibition and children exhibition, 5ha of Gardens with a full engineering model of the Mir Station, full scale model of Ariane 5 rocket, interactive games, a 3D Imax and 2 state of the art Planetariums as well as an astronomic...
SENER INGENIERIA Y SISTEMAS, S.A.

Member since: 1989
Web: http://www.sener.es/

SENER Ingeniería y Sistemas S.A. is an Engineering and Construction company backed by more than 50 years’ experience. Innovation, commitment to quality and independence are our corporate values. Founded in Spain, today we are an international leader in:

- Civil Engineering
- Architecture
- Aerospace Engineering
- Aeronautics and Vehicles
- Actuator and Control Systems
- Power and Processes Marine Engineering.

More than 2,500 professionals and 13 offices located in Algiers, Argentina, the United Arab Emirates, Japan, Mexico, Poland, Portugal and Spain are proof of our potential as a company, our aim is to offer our customers and society solutions and products that are technologically efficient and innovative.

SERBIAN OFFICE FOR SPACE SCIENCES, RESEARCH AND DEVELOPMENT (SERBSPACE)

Member since: 2020
Web: https://www.serbspace.rs/

Serbian Office for Space sciences, Research and Development (SERBSPACE) was established in August 2016 as a non-governmental organization based in Belgrade with the general aim of developing the Space sector in Serbia through Academia, Industry and Societies as three main pillars of the wider Space ecosystem. SERBSPACE’s scope of work includes Space sciences and industries, improvement of research and development relating to Space, cooperation with national and international universities, associations, Governments, United Nations, Space agencies and companies, participation in and organization of events, congresses, workshops and other space related activities and events, development of Space strategies, road maps, applications and other Space related projects.

For the purpose of achieving its goals the Office particularly:

ORGANIZES
Scientific and professional conferences, meetings and other events related to Space sciences, industry and societies;

DEVELOPS
Projects, Space strategies, Road maps, Applications and other space related projects;

PARTICIPATES
In national or international projects, programs, conferences and workshops in the space related fields;

GATHERS
National and international Members of Academia, Industry, Societies and Governments in field of Space, particularly in Serbia and South East Europe with the aim to establish cooperation for the future projects and activities of the Office;

COOPERATES
With national and international universities, associations, organizations, Governments, United Nations, Space agencies and companies;

COOPERATES AND INFORMS COMPETENT AUTHORITIES
On projects and initiatives of national interest and Space strategies and road maps, such as Serbian Space agency project, membership within international organizations (UNCOPUOS) and representation before international stakeholders.

SERGIO ARBOLEDA UNIVERSITY

Member since: 2014
Mail: jorge.soliz@usa.edu.co
Web: https://www.usergioarboleda.edu.co/

Sergio Arboleda University is involved in Colombian Aerospace development. This began in 2007 with its first satellite ‘Libertad 1’ (NORAD ID 31128), since then, the University works in Aerospace Technology, Astronomy and Space Law.
**SES**

Member since: 2000  

We are a world-leading satellite operator, providing reliable and secure satellite communications solutions to broadcast, telecom, corporate and government customers worldwide.

We own and operate a fleet of 53 geostationary satellites that are complemented by a network of teleports and offices located around the globe. This far-reaching infrastructure enables our customers to reach 99% of the world's population and places SES at the heart of the global communications chain.

We are headquartered in Luxembourg and operate worldwide through dedicated regional teams. We are listed on Euronext Paris and on the Luxembourg Stock Exchange (SESG).

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**SHAANXI ENGINEERING LABORATORY FOR MICROSATELLITES**

Member since: 2011  
Mail: fao@nwpu.edu.cn  

Northwestern Polytechnical University (NPU) is located in ancient capital city of Xi’an. NPU is China’s only research-oriented, multi-disciplinary, and international university of science and technology, which simultaneously excels at aeronautics, astronautics, and marine technology. The university emphasizes science and technology, while harmoniously developing the fields of management, humanities, economics, and law. The university is affiliated with the Ministry of Industry and Information Technology.

The School of Astronautics was founded in 1958 and is one of the earliest to focus on the astronautic technology development and education in China. The School currently consists of three faculties: Astronautics Design Engineering, Astronautics Control Engineering and Astronautics Propulsion Technology, as well as one institution of Flight Control and Simulation.

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**SHAMAKHY ASTROPHYSICAL OBSERVATORY**

Member since: 2004  

The School of Astronautics provides 6 master’s of science and Ph.D. programs, including: Flight Vehicle Design, Navigation Guidance and Control, Propulsion Theory and Engineering of Aeronautics and Astronautics, Planning and Management for Traffic Transportation, and Launch Theory and Technique. The School also has 3 mobile postdoctoral research stations which accept the foreign trainees and postdoctoral researchers. Currently, 1 National Key Laboratory, 6 Professional Subject Laboratories, 3 Academic Institutions and 1 Astronautic Experimental Education Center are all contained in the school. The main subjects and researching directions include:

- Flight Vehicle Structural Analysis and Design
- Flight Vehicle Numerical Simulation and Design
- Reliability and Optical Design
- Flight Vehicle Dynamic and Control
- Space Vehicle Dynamics Guidance and Global Positioning System
- Vehicle Optical Trajectory and Simulation
- Advanced Control Theory and Its Applications
- Vehicle Control and Simulation
SHOAL
Member since: 2014
Mail: support@shoalgroup.com
Web: https://www.shoalgroup.com/

SHOAL is a leading systems engineering services firm which works across the defence, space, science, and civil ICT sectors. Headquartered in Canberra with a distributed team across Australia, the company works with its clients to deliver some of Australia’s most complex technical projects.

SIDERALIS FOUNDATION
Member since: 2019
Mail:
Web:

SIDERALIS is a nonprofit and nongovernmental organization, a Foundation focused in the promote and execute projects and activities for the development of scientific and technological capabilities here in Ecuador, develop and execute academic programmes for children, teenagers and young people in STEAM matters, including programmes or projects about cultural and artistic expressions.

SIDERALIS and Ecuadorian Civilian Space Agency work together in the development of capabilities, new professionals and increasing public knowledge about space sciences and space technology. The Foundation has another objective: preserve historical technology and its information for the next generations.

SIERRA NEVADA CORPORATION SPACE SYSTEMS
Member since: 2014
Mail: generalinfo@sncorp.com
Web: https://www.sncorp.com/

Sierra Nevada Corporation’s (SNC) Space Systems was formed as a Business Area in early 2009 through the consolidation of the technology and years of experience garnered from SNC’s subsidiaries SpaceDev Inc., (including SpaceDev’s subsidiary Starsys Research), and MicroSat Systems, Inc. SNC’s Space Systems Business Area provides customers with innovative, responsive and cost effective space products including:

- Spacecraft Systems, home to the only US small satellite production line and satellite operations center,
- Propulsion Systems, which include SNC’s own green, safe, reliable, hybrid rocket motor tested over 100 times,
- Space Technologies, sending a mechanism or component to space every 14 days on average totaling 4000 devices flown on 400 missions without a failure,
- and Space Exploration Systems, partnering with NASA as part of the Commercial Crew Program to design and build a commercial system capable of transporting crew and cargo to and from low Earth orbit.

SIMEON TECHNOLOGIES
Member since: 2014
Web: http://www.simeontechnology.eu/nos.projets.html

Simeon Technologies makes research and Innovation technologies based on Electromagnetism. We have actually 2 sectors:

- Development of heating devices to fight against cooling
- Development of Protection against cosmic and solar radiation, gamma and X-Ray

Our next sector will concern spaceship engine. We are specialized in Aerospace
Singapore Space and Technology Association (SSTA) is Singapore’s lead association focused on developing Singapore Space technology industry. We act as neutral, non-profit platform to facilitate information & communication for government, industry & academia.

SSTA spearheads major trade and business-focused initiatives with the aim of advancing Singapore’s Space ecosystem, thus catalyzing Singapore’s drive as a regional space hub.

On the domestic front, we drive educational & outreach programs to encourage stem careers in the expanding aerospace/space industry

ST Engineering is a global technology, defence and engineering group specialising in the aerospace, electronics, land systems and marine sectors. The Group employs about 22,000 people across offices in Asia, the Americas, Europe and the Middle East, serving customers in the defence, government and commercial segments in more than 100 countries. With more than 500 smart city projects across 70 cities in its track record, the Group continues to help transform cities through its suite of Smart Mobility, Smart Security and Smart Environment solutions. Headquartered in Singapore, ST Engineering reported revenue of $6.7b in FY2018 and it ranks among the largest companies listed on the Singapore Exchange. It is a component stock of the FTSE Straits Times Index, MSCI Singapore, SGX ESG Transparency Index and SGX ESG Leaders Index.

The Aerospace sector provides integrated aerospace services and solutions through a global network of facilities and affiliates in the Americas, Asia Pacific and Europe, supporting a broad customer base that comprises leading airlines, airfreight operators and armed forces. Its wide spectrum of maintenance and engineering solutions include airframe, engine and component maintenance, repair and overhaul, engineering design and technical services, as well as aviation materials and asset management services. The sector also has original equipment manufacturing capabilities and holds proprietary designs in products such as aircraft seats.

SITAEL is the largest, Italian, privately-owned Company operating in the Space Sector. It is part of Angelo Investments holding, a worldwide leading Group with over 1000 highly skilled employees and a portfolio of successful high-tech companies, deeply involved in the Transportation and Aerospace markets.

Over the years SITAEL has gained proven skills in the Design, Development and Production of Small Satellites, Optical Payloads, Advanced Propulsion Systems and on board avionics.
SITAEL is able to provide complete solutions for Earth Observation, Telecom and Science missions based on all-electric small satellites and related downstream services.

With over 300 skilled employees and state-of-the-art facilities, SITAEL manages all the phases of development and production, providing leading technologies and services for high-reliability applications.

SITAEL has obtained quality assurance certifications ISO 9001:2008, ISO 14001:2004, SA8000 and official ESA/NASA standard certifications in order to guarantee highly qualified processes, and increase the quality of products and solutions offered.

With its wide range of developments, SITAEL has successfully taken part in many International Projects (COPERNICUS SENTINELS, SWARM, INTEGRAL, MSL-Curiosity, ExoMARS, PAMELA, AMS-01/AMS-02, CALET, GAIA, ATV, ALMASat-1, Unisat-V) and is currently involved in other International Programmes (MUSIS CSO, Solar Orbiter, MTG, COSMO Skymed 2nd generation, EarthCare, ASTRO-H, ESEO, VERTA, μHETSat) in collaboration with the main Space Players (ESA, NASA, CNES, JAXA, ASI, Thales Alenia Space, AIRBUS Defence & Space, OHB, Leonardo, COM DEV, RSC Energia).

Main production areas are:

- Small Satellites
- Micro and Mini Satellite Platforms (50-300 Kg)
- Platform sub-systems
- Separation Systems
- Applications and Downstream services
- Advanced Propulsion
- Electric Propulsion
- Chemical Propulsion
- Vacuum Test Systems Services and Production
- Instruments and Avionics
- Instruments Integration and Advanced Sensors Development
- On board Power Drive and Control systems
- On board Data Handling/Processing and Communication Systems
- Ground Support Equipment, Test Equipment and Development Systems
- Rad-tolerant Analog and Mixed Signal ASIC and digital IP cores for rad-hard FPGAs

SKY AND SPACE GLOBAL (UK) LTD

Member since: 2017

Web: https://www.skyandspace.global/corporate/

Sky and Space Global (UK) LTD, a UK incorporated company with European and Israeli centres of Aerospace, Satellite and Software Industry Experts plans to deploy nano-satellites constellations in orbit to provide global communication infrastructure. The core SSG business is to construct a communication infrastructure based on nanosatellite technology and develop software systems that will deploy, maintain orbit control and handle communication code between each of the nanosatellites to provide global coverage once a sufficient global network of nano-satellites is deployed.

SODERN

Member since: 1997

Web: http://www.sodern.com/

Since its inception, SODERN has been a source of solutions based on innovation and has developed its cutting edge expertise. The company’s products are now relied upon in competitive markets worldwide, with a wide range of applications involving the extremely small (neutrons) to the infinitely large (Outer Space).

The company is the worldwide manufacturer and provider of attitude sensors (star trackers, earth sensors, etc.) and has also developed extensive expertise on Space Instrumentation (Earth Observation, onboard Scientific Instrumentation, etc.).

SODERN has also spent several years developing instruments to detect dangerous or illicit materials concealed in luggage (e.g. explosives or narcotics) or buried underneath the ground (e.g. mines, chemical weapons), by using a neutron interrogation technology.

SODERN is constantly advancing its innovation and technology to higher levels to meet its customers’ needs. In recent years it has received three awards: The Aviation Week Award (2005, HYDRA Star Tracker), the Civil Defence Technological Innovation Trophy (2007, EURITRACK) and the NASA Achievement Award (2007, CALIPSO).
SOLETOP CO. LTD
Member since: 2016
Mail:
Web:

Soletop is known for innovative software technology and field-proven engineering capabilities for applications in satellites, unmanned crafts. From factory test to operation, the Defense and Aerospace industries rely on Soletop to solve its application problems.

SOUTH AFRICAN NATIONAL SPACE AGENCY (SANSA)
Member since: 2012
Mail: information@sansa.org.za
Web: https://www.sansa.org.za/

SANSA is mandated by the SANSA Act, 36 of 2008, to promote the peaceful use of space, foster international cooperation in space-related activities and create an environment conducive to industrial development in space technology through research, human capital development, outreach programmes and infrastructure development.

SOUTH AFRICAN SPACE ASSOCIATION (SASA)
Member since: 2012
Mail: info@spacesa.org

The South African Space Association provides a forum for space professionals to interact and exchange ideas. This is a membership-based professional association which will seek accreditation with the South African Council for Natural Scientific Professions (SACNASP) and collaboration with other international space societies.

As with other professional associations, various grades of membership have been established, with the highest grades limited to those individuals who have made leading contributions to the development of the space arena in South Africa.

SPACE APPLICATIONS SERVICES NV/SA
Member since: 2019
Web: https://www.spaceapplications.com/

Space Applications Services NV/SA is an Independent Belgian Company founded in 1987, with a subsidiary in Houston, USA. Company’s aim is to research and develop innovative systems, solutions and products and provide services to the aerospace & security markets and related industries. Company’s activities cover manned & unmanned spacecraft, launch/re-entry vehicles, control center, robotics & wide range of information system.


SPACE CANADA CORPORATION
Member since: 2009
Mail: kevin.shortt@spacecanada.org
Web: https://www.spacecanada.org/

SPACE Canada (Solar Power Alternative for Clean Energy) is a not-for-profit organization dedicated to the promotion of solar energy from space, an abundant and sustainable source of safe, affordable clean energy for the world.
Space Center Houston is the official Visitors Center for NASA’s Johnson Space Center. The Center opened on October 16, 1992 and we host approximately 800,000 guests each year. Our Center houses many space-related artifacts and exhibits, including a Mercury Capsule, Gemini Capsule, Apollo 17 Command Module, and real moon rocks that our guests can touch. The Center was built as an educational facility to tell the story of the Manned Spaceflight Program through interactive exhibits, real artifacts and live presentations. The underlying theme of our Attractions is past, present and future. Our guests are encouraged to view the artifact museum first, where they learn about the history of our space program, then move on to the guided tour of JSC to see Mission Control and an Astronaut Training Facility, and lastly we offer a live presentation on the future of our Space Program. We are open to the public daily, except Christmas day. We host a variety of educational events, including Boy Scout Camp-ins, Physics Day, Distance Learning Programs, Teacher Conference, and Alpha Program for Gifted and Talented. We also support many community events, such as, Wings over Houston Air Show, Fun Run and Home School Day. We offer a large variety of promotional coupons in the market and offer accommodations to assist guests with special needs. We value our guests and consistently use our Basic Elements of Operation, Safety, Show Courtesy and Efficiency to help us provide the best possible experience e for our guests.

Space Commercial Services was founded and is directed by experienced professionals who have successfully started and managed satellite programs. The team was joined by regulatory, geospatial, telecoms and socio-economic development specialists to offer a complete service package in support of small satellite programs and other ICT infrastructure.

Space Cooperative is a collective intelligence network to enable the strategic development of large scale projects to improve life on Earth and become a spacefaring civilization. Space Cooperative will leverage recent developments in blockchain technology to create a global, distributed, peer-to-peer open value network and decentralized space program. With Space Cooperative, worthy missions or projects can be proposed, debated, funded, and implemented. People can self-organize into virtual or local working groups with the tools necessary for seamless cross-collaboration. The community will be empowered to cooperate to propose and implement projects on a scale currently reserved for only the richest governments or largest corporations. By doing so, Space Cooperative hopes to accelerate humankind’s journey towards the stars, not under any one flag or a corporate logo, but together as a unified planet.

SFL builds big performance into smaller, lower cost satellites. Small satellites built by SFL consistently push the performance envelope and disrupt the traditional cost paradigm. Satellites are built with advanced power systems, stringent attitude control and high-volume data capacity that are striking relative to the budget. SFL arranges launches globally and maintains a mission control center accessing ground stations worldwide. The pioneering and barrier breaking work of SFL is a key enabler to tomorrow’s cost aggressive satellite constellations.
SPACE FOUNDATION
Member since: 2014
Mail: SEisenhart@spacefoundation.org
Web: http://www.spacefoundation.org/

Founded in 1983, The Space Foundation is a global, nonprofit leader in space awareness activities, educational programs that bring space into the classroom and major industry events, including the Space Symposium, all in support of our mission “to advance space-related endeavors to inspire, enable and propel humanity.”

SPACE GENERATION ADVISORY COUNCIL (SGAC)
Member since: 2004
Mail: info@spacegeneration.org
Web: http://www.spacegeneration.org

SGAC works on the international, national and local level to link together university students and young professionals to think creatively about international space policy issues and inject the youth point of view into international space policy creation.

SPACE INDUSTRY ASSOCIATION OF AUSTRALIA
Member since: 2012
Mail: contactus@spaceindustry.com.au

The Space Industry Association of Australia (formerly the Australian Space Industry Chamber of Commerce) is a national organisation formed to promote the growth of the Australian space industry.

By formulating national policies and strategies, SIAA speaks with authority and credibility on behalf of its members on issues connected with the development of the Australian space industry. SIAA takes a leading role in advising government on behalf of the space industry.

Through State-based meetings and seminars, SIAA consults with its members to devise policies to support the development of the Australian space industry and is active in promoting and facilitating commercial, industrial and research opportunities for its members nationally and internationally. SIAA provides a forum to focus the individual interests of its members into a collective industry-based voice. We harness the skills and expertise of our membership to address issues of common concern to individuals and businesses involved in, or seeking the benefits of, the space environment.

SPACE POLICY INSTITUTE, GEORGE WASHINGTON UNIVERSITY
Member since: 2005
Web: http://www.gwu.edu/~spi/

The Space Policy Institute focuses its activities on policy issues related to the space efforts of the United States of America and cooperative and competitive interactions in space between the United States of America and other countries. The Institute provides a setting in which scholars, policy analysts, practitioners, and students can work together to examine and evaluate options for the future in space.

SPACE TECH EXPO- SMARTER SHOWS LTD
Member since: 2017
Web: http://www.spacetechexpo.eu/
Smarter Shows is a truly 21st-century exhibition organizer, owned and supported by some of the most respected people in the exhibitions business, the founders have over 50 years combined industry experience. Smarter Shows is specialized in producing highly focused B2B conferences and exhibitions.

**SPACE TRUST**

Member since: 2016

Mail: info@spacetrust.com  
Web: http://spacetrust.com/

Space Trust is a thought leader in making Space the New Frontier for Peace by engaging world leaders to find innovative solutions for a peaceful world and to redefine Diplomacy in a New Space Age—i.e., the Commercialization of Space.

We seek to engage the civil society via a global campaign next year. Our STEAM/STEM projects under Space Generation Women Leaders Programme is aimed at empowering young women and Disaster Risk Reduction Programme for developing countries for Disaster preparedness and peaceful uses of Space Science and Technology on Earth.

**SPACEBIT GLOBAL LTD**

Member since: 2019

Mail: info@spacebit.com  
Web: https://spacebit.com/

Microrobotics for space application  
Software development and distributed ledger technology integration in business processes  
Lunar and Interplanetary missions planning.

**SPACEBUZZ**

Member since: 2019

Web: https://www.spacebuzz.earth/

The primary activity of SpaceBuzz is to inspire and educate with the view of astronauts on planet Earth.

VR education program inspired by the Overview Effect and astronauts missions

The VR education program is inspired by the Overview Effect and is based on a real mission to space: pre flight training, the space journey and post flight debriefing and outreach. The program teaches, inspires and motivates children throughout the mission. Topics include Space, Earth and Technology (STEM). We also enable children to develop 21st century skills such as problem solving and creativity.

Launching millions of children into space with the SpaceBuzz rocket vehicle

A vital part of the education program is the real life mission into space with the SpaceBuzz rocket vehicle, developed with the help of astronaut André Kuipers. It provides a once-in-a-lifetime experience for children to feel what it is like to be launched to space like an astronaut. SpaceBuzz offers a multi-sensory experience, using VR, sound and moving chairs to mimic a real life space rocket launch. The massive front window is a key element during the experience, as it allows children to see and learn about the beauty, vulnerability and specifics of our planet.

Education and Virtual reality

Virtual Reality allows us to develop new and effective ways of teaching children about Space, Earth and Technology. In order to validate and optimize our educational program, SpaceBuzz collaborates with leading scientists to kickstart an international scientific research program on the effectiveness of VR-enabled learning.

Benefits of VR for learning include:

Immersion makes children more engaged, making them forget that they are learning.

Children are able to explore the world in VR, at their own pace and based on their own interests.

Children can get personal tutors, in this case real astronauts that guide them through the VR-experience.
Inclusive learning, as VR can bring personalized learning to any location in the world (e.g. through mobile virtual reality solutions on smartphones).

Proven success

Within 18 months, we developed a fully immersive VR-based educational program including the world’s first SpaceBuzz rocket vehicle for the SpaceBuzz mission, completely financed through private funding. Friends of SpaceBuzz are Adessium, Cordius, Deloitte, Dutch Space Office, MediaMonks, National Geographic, NEMO Science Children’s Museum in Amsterdam and WWF.

The world’s first SpaceBuzz rocket vehicle was unveiled in December 2018 by Dutch astronaut and co-founder André Kuipers and was extremely well received by Dutch teachers and pupils alike. Indicator of our success are that SpaceBuzz is already fully booked by schools in the Netherlands until May 2021 and that a second rocket is being built as we speak.

In October SpaceBuzz is launched globally during it’s USA tour. It will be presented at the annual conference of the Association of Space Explorers amidst 125 astronauts and the International Astronautical Conference in Washington D.C.

In search for Friends of SpaceBuzz to inspire millions of children worldwide

From the start, this program has been built with a global ambition in mind: scalable, nationally adaptable and free for all children (9-12 years old). It has an open access model with local adaptability regarding astronauts, countries and content.

In order to roll out the program internationally, we are looking for partnerships, expertise and funding. Our ideal partners would be individuals and organizations who, like us, are passionate about inspiring and educating children about Space, the Earth, and Technology (STEM) and would love to bring SpaceBuzz to their own country or region.

**SPACECHAIN FOUNDATION LTD.**

Member since: 2019

**Mail:** info@aspacechain.com  
**Web:** https://spacechain.com/

Founded in 2017, SpaceChain is a community-based space platform that combines space and blockchain technologies to build the world’s first open-source blockchain-based satellite network, allowing users to develop and run applications in space.

SpaceChain’s decentralized technology is a catalyst for the creation of the New Space Economy, by making the development of space applications easier and making space more accessible. It enables innovation for a number of industries, and its first application will be space-based multisig technology for financial services.

For more information, visit www.spacechain.com.

**SPACEFOREST**

Member since: 2018

**Mail:** spaceforest@spaceforest.pl  
**Web:** https://spaceforest.pl/

SpaceForest develops and commercializes new technologies related to microwave techniques, artificial intelligence, electronic and rocket technologies. The company’s most valuable asset is highly educated, experienced and ambitious team.

SpaceForest is a space company providing various services to facilitate the commercial and scientific access to space. Its Experimental Rocket Department is currently focused on carrying out the Suborbital Inexpensive Rocket (SIR) project. The aim of this project is to develop a fully reusable suborbital rocket capable of carrying 50-75 kg of payload to an altitude range of 150 to 225 km. SIR is designed to provide high performance and reliability at low cost for the suborbital space users.

SpaceForest implements internally developed technologies including Wireless Sensor Networks applied in aerospace systems or Filter Tuning Software (FTS) dedicated to the microwave cavity filters postproduction tuning.

Cooperation with European Space Agency lead to the development of the low-noise, high frequency generators, and provision of internally developed testing environment for the on-board data collecting system of the ESA’s JUICE mission.

**ISO 9001 & 14001**
SpaceLand conducts a range of activities related to microgravity science research & technology innovation as well as preparing people as professional astronaut candidates to fly on microgravity and sub-orbital flights and assist researchers, payload developers and spaceflight providers with mission planning, operations support and flight campaign implementation. Through its interactive exhibits and training environments, SpaceLand provides A-to-Z engineering and operations hand-on services to prepare hardware and people for low-gravity and weightlessness, both on ground and underwater, and bring them to fly in Zero-G, Lunar-gravity and/or Mars-gravity flight conditions for both educational and research purposes in any S.T.E.M. discipline.

SpaceNed is the Association of Space companies in Netherlands, rebranded from NISO in 2009. The objective of SpaceNed is to strengthen the position of its members in the international space market. Members cover Industry, SME, research institutes and universities, active in both the upstream and the downstream space markets.

Spacety provides turn-key space mission service throughout the entire satellite life cycle. Via designing and assembling cost-effective micro-(nano-) satellites, we achieve launching, in-orbit monitoring and maintenance. Our satellite can help scientists and research institutes who want to do experiments in the space environment. Besides that, we are doing a revolution in space technology and try to utilize the space resources for our society.

SpaceX designs, builds and launches advanced rockets and spacecraft. The company was founded in 2002 to revolutionize space technology, with the ultimate goal of enabling people to live on other planets.

The SSC Group is a worldwide provider of satellite management services. We develop subsystems for aerospace applications and provide launch services for rockets and balloons. The SSC Group comprises several specialised companies, all with long experience and leading positions in certain fields of the space industry. We are known to be competent, innovative and reliable. Flexibility is one of our overall strengths and an advantage of having a compact and agile organisation.
Starsem is the Soyuz company, dedicated to providing commercial launch services with the reliable and proven Soyuz family of launch vehicles.

The European-Russian organization brings together all key players involved in the production and operation of Soyuz and is responsible for international sales of the world’s most versatile launch vehicle.

Created in 1996, Starsem offers the Soyuz for a broad range of mission needs, including satellite telecommunications systems, scientific spacecraft, and Earth observation / meteorological platforms.

Starsem provides each customer a true turnkey service, from manufacture of the launch vehicle to mission preparations at the Baikonur Cosmodrome and successful in-orbit delivery of payloads.

State Space Agency of Ukraine as a central body of executive power established in 1992 implements state policy concepts in the exploration and peaceful use of outer space. SSAU belongs to the 5 world leaders in providing launching services. For 20 years of activities 125 launches of Ukrainian LVs have been conducted and over 230 spacecraft delivered into orbit for the benefit of 20 countries worldwide.

Stellenbosch University is one of the top research universities in South Africa. It takes pride in the fact that it has one of the country’s highest proportions of postgraduate students of which almost ten percent are international students.

The University lies in the picturesque Jonkershoek Valley in the heart of the Western Cape Winelands. The earliest roots of the University can be traced back to the 17th century when a beginning was made with regular school instruction. In 1859 the Theological Seminary was founded and in 1866 the Stellenbosch Gymnasium. In 1881, the “Arts Department” of the Stellenbosch Gymnasium became the Stellenbosch College and renamed the Victoria College in 1887. In 1918, Victoria College made way for an independent university and Stellenbosch University opened its doors for some 500 students and 39 lecturers. The University has since then grown into the internationally recognised institution of excellence it is today with more than 24 000 students, 800 lecturers and some 50 research and service bodies. Read more on how the Stellenbosch Gymnasium evolved into Stellenbosch University under “History”.

The University has ten faculties, of which eight- AgriSciences, Arts and Social Sciences, Education, Engineering, Law, Science, Theology and the larger part of Economic and Management Sciences- are located on the main campus in Stellenbosch with the Faculty of Health Sciences situated on the Tygerberg campus. The Bellville Park campus is home to the Business School and the school’s Executive Development programme. The coastal town of Saldanha serves as the base for the Faculty of Military Sciences.
The campuses of Stellenbosch University make up a vibrant melting pot of different cultures and various student organisations can be found on the four campuses. They cater for a wide range of interests such as culture, politics, religions, spiritual concern and relaxation. There are also a number of well-know and established student activities, such as RAG that add to the unique experience of being a Matie, as a student of Stellenbosch is affectionately known.

STM
Member since: 2014
Mail: sinan@stm.com.tr
Web: https://www.stm.com.tr/tr

STM Savunma Teknolojileri Mühendislik ve Ticaret A.Ş. was established in 1991, and its main objectives are to provide systems engineering, technical support, project management, technology transfer, logistics support services and to develop necessary software technologies for defence systems. STM has now more than 500 employees.

SURREY SATELLITE TECHNOLOGY LTD (SSTL)
Member since: 1998
Web: http://www.sstl.co.uk/

Surrey Satellite Technology Ltd is at the forefront of space innovation. We disrupt the conventions of small satellite design, and exploit new technologies, to bring affordable space missions to our global customers. We listen, we advise, we draw on our years of expertise, and then we take a pragmatic approach to bring customers the very best solution. That's what makes us a world-leader in the space sector. Based in Guildford, UK, Surrey Satellite Technology Ltd is an independent company within the Airbus Group.

SWEDISH SOCIETY FOR AERONAUTICS AND ASTRONAUTICS
Member since: 1960
Web: https://ftfsweden.se/

The Swedish Society for Aeronautics and Astronautics is a non-profit and independent association with the purpose of promoting aerospace technology activities in Sweden. The society constitutes since 1968 a merger of the Swedish Society for Aeronautics and Astronautics formed 1933, and the Swedish Interplanetary Society, formed 1950. Currently, the society has about 2000 members in the five local branches in Stockholm, Linköping, Göteborg, Trollhättan and Malmö.

The society organises lectures on aerospace technology and publishes a quarterly newsletter. Every year the Society awards the Thulin medal to reward distinctive achievements within aerospace technology.

Every third year the Society holds an Aerospace Technology Congress with more than 100 oral paper presentations and an Exhibition, gathering more than 300 participants. The next congress will be held together with the Council of European Aerospace Societies in September 2013 in Linköping.

SWISS SPACE OFFICE (SSO)
Member since: 2017
Mail:
Web:

SSO proposes and implements the Swiss Space Policy, coordinates the Swiss space activities and is Head of ESA delegation.
SWISSSPACE ASSOCIATION
Member since: 1966
Web: https://www.srv-ch.org/de/

TAMSAT - THE SOCIETY OF AMATEUR SATELLITE TECHNOLOGIES OF TURKEY
Member since: 2013
Web: http://www.tamsat.org.tr/tr/

The design, production and operation of satellites for research, development, implementation and educational purposes are the main objectives for TAMSAT.

The studies are aimed for use by radio amateurs, Universities and R&D Establishments related to their scientific studies, and to increase the number of young people with the basic knowledge and skills on the satellites.

TAMSAT organizes training and seminars for developing and expanding information technologies, the amateur satellite systems in the fields of research and development for the youth of our country to increase public awareness on space.

TARTU UNIVERSITY
Member since: 2014
Web: https://www.ut.ee/en

UT is Estonia’s leading centre of research and training. It preserves the culture of the Estonian people and spearheads the country’s reputation in research and provision of higher education. UT belongs to the top 1.2% of world’s best universities.

As Estonia’s national university, UT stresses the importance of international co-operation and partnerships with reputable research universities all over the world. The robust research potential of the university is evidenced by the fact that the University of Tartu has been invited to join the Coimbra Group, a prestigious club of renowned research universities.

UT includes four faculties. To support and develop the professional competence of its students and academic staff, the university has entered into bilateral co-operation agreements with 79 partner institutions in 31 countries.
The University of Tartu was founded in 1632 by the Swedish king Gustavus Adolphus. It was initially called Academia Dorpatensis. The necessary preparations for creating a university in Tartu (then Dorpat) were made by Johan Skytte, governor general of Livonia.

Academia Dorpatensis, modelled after the University of Uppsala in Sweden, was intended to pursue research and advance learning in a wide variety of disciplines. The University of Tartu (UT) has continued to adhere to this approach throughout the centuries, and remains today the only classical university in Estonia. Research at UT focuses on subjects as diverse as medicine and philosophy, genetics and computer science.

**TECHNICAL UNIVERSITY OF KOŠICE**

Member since: 2019
Web: [https://www.tuke.sk/wps/portal/tuke](https://www.tuke.sk/wps/portal/tuke)

The Faculty of Aeronautics was established on 1 February 2005 as a successor of the Air Force Academy of Milan Rastislav Štefánik in Košice, which had been a prestigious educational institution in Europe and in the world having provided university education for pilots and air operating personnel for over 30 years, Education provided in accredited study branches:

- Motor Vehicles, Rolling Stock, Ships and Airplanes
- Electronics
- Transport
- Aerospace Engineering

The faculty from its beginning has focused on complex aviation issues, has provided university education and has conducted the scientific research and development in traditional areas of aviation:
- The management and security of aviation
- Aerospace engineering
- Avionics and construction
- Maintenance and operation of aeronautical products

**TECHNO SYSTEM DEVELOPMENTS S.R.L.**

Member since: 1993
Mail: info@tsd-space.it
Web: [http://www.tsdev.it/](http://www.tsdev.it/)

Techno System Developments (TSD) is a fully private company founded in 1977. Initially focused on applied research in the fields of aerodynamics, fluidynamics, microgravity and space technologies, Techno System gradually became since early 90’s a company specialised in the design, development and manufacturing of on board and ground electronic equipment for aero-space applications.

**TECHNOLOGY AND ENGINEERING CENTER FOR SPACE UTILIZATION (CSU)**

Member since: 2014
Web: [http://english.csu.cas.cn/About_CSU/General_Information/](http://english.csu.cas.cn/About_CSU/General_Information/)

Technology and Engineering Center for Space Utilization (CSU) formally established in August 2011. Before 2011, CSU has also been known as GESSA, i.e. General Establishment of Space Science and Application, Chinese Academy of Sciences, which was founded in 1993. The name GESSA is still referred to today.

On behalf of the Chinese Academy of Sciences (CAS), CSU has participated China’s Manned Space Science and utilization has long been playing an important role in serving the national major strategic demands and gaining world-class competitive capabilities. With 20 years of unremitting endeavour, tens of scientific research projects have been successfully implemented, by utilizing the “S2” series spacecraft and “T G-1” space laboratory. Fruitful achievements have been attained in these researches.
With the significant contribution to the progress of CMSP, especially to the space science and application, a number of awards and reputation were gained, such as National Prize of Scientific and Technological Progress, National May 1 Labor Award, Outstanding Contributions to the Manned Spaceflight and more.

TELEDYNE BROWN ENGINEERING

Member since: 2014

Mail: TBEBusiness@teledyne.com
Web: https://tbe.com/

Teledyne Brown Engineering has been supporting the US Space Program since its inception, and has worked with international partners on numerous missions, including the SpaceLab program aboard the Space Shuttle, and International Space Station. Teledyne Brown Engineering currently works closely with NASA in development of hardware for ISS, in building a key structural flight element of NASA’s Space Launch System (SLS)- the Launch Vehicle Stages Adapter- and holds the contract for payload operations aboard the ISS. Across Teledyne, our company manufactures focal-plane sensors for space-based observations, including Hubble, James Webb, and Euclid. Teledyne is responsible for the development and delivery of space-based power sources, such as the MMRTG aboard the Mars Curiosity Rover. We have developed and delivered a number of optical and lidar-based systems for spaceflight, including missions such as hazard avoidance cameras for Curiosity and for the upcoming Osiris-Rex mission.

TELESPAZIO S.P.A.

Member since: 1987

Mail: telespazio.communication@telespazio.com
Web: http://www.telespazio.it/

Telespazio, a joint venture between Leonardo (67%) and Thales (33%), is one of Europe’s leaders and one of the world’s main players in satellite solutions and services. The company has its headquarters in Rome, Italy, and is supported by a staff of approximately 2500 people.

Telespazio operates worldwide through numerous companies, and has a wide international network of space centres and teleports. In particular, it is present: in France with Telespazio France, in Germany with Telespazio VEGA Deutschland, GAF and Spaceopal (a joint venture in which the German space agency DLR holds a 50% interest), in the United Kingdom with Telespazio VEGA UK, in Spain with Telespazio Iberica and in Romania with Rartel. Telespazio has a consolidated presence in South America with Telespazio Brasil and Telespazio Argentina. In Italy, the company is also present through e-GEOS (in which the Italian Space Agency holds a 20% interest).

Telespazio is a leading company in “key” sectors for public institutions, business operators and consumers, with activities ranging from the design and development of space systems to the management of launch services and in orbit satellite control, from Earth observation services, integrated communication, satellite navigation and localisation, to scientific programmes.

Telespazio relies on a wealth of experience of the highest level, stemming from technological expertise acquired over 50 years of business practice. The Company’s experience is also drawn from the management of space infrastructure- including the Fucino Space Centre, one of the world’s largest civilian teleports- as well as from its qualified involvement in space programmes of great significance, including: Galileo, EGNOS, Copernicus, COSMO-SkyMed and SICRAL.

The company now covers the whole space market value chain through its three lines of business: Satellite Communications, Geo Information, Satellite Systems and Operations.

Telespazio responds to new demands in the market with innovative ideas and solutions. Today, more than ever, Telespazio is a true innovator, transforming what were once just possibilities into real services available to an increasingly wide audience worldwide.
TELESPAZIO VEGA UK LTD

With a pedigree in space technology stretching back over 40 years, Telespazio VEGA UK (TPZV UK) is an experienced consulting, technology, engineering, space operations and service development business. A subsidiary of Telespazio, a 67/33% joint venture between Leonardo and Thales, TPZV UK has built its first class reputation by exploiting new technology developments in Earth Observation and Satellite Navigation & Communications to pioneer innovative services in space operations and geospatial data applications. Using the broader capabilities of the Telespazio Group, TPZV UK provides novel solutions to the remotest regions of the globe.

TPZV UK’s business spans two main areas:

Geoinformation and Satellite Imaging Services - expert use of optical and radar satellite data to benefit a range of market sectors such as Agriculture, Transport, Maritime, Energy & Environment.

Satellite System Development and Mission Support - development and management of the complex infrastructure and processes required to enable delivery of quality assured satellite data.

Our product offerings encompass highly reliable equipment as for example the travelling wave tube amplifiers, multiplexers, waveguide switches, and modulators, which along with complete systems are delivered globally to all leading satellite manufacturers. Therefore, we offer the complete communication technology necessary, to for example emit television signals over the antenna of a satellite to each household. More than half of all communication satellites in orbit have Tesat equipment on board.

TESAT-SPACECOM GMBH & CO. KG

At Tesat-Spacecom (Tesat) in Backnang, Germany, almost 1200 employees develop, assemble, integrate, and test systems and equipment for telecommunication via satellite.

THALES ALENIA SPACE FRANCE

Thales Alenia Space is a joint subsidiary of Thales (67%) and Finmeccanica (33%), and a partner in the Space Alliance along with Telespazio. The company has 7,500 employees in France, Italy, Spain, Belgium, Germany and United States of America, and posted total revenues of 2.1 billion euros in 2011.

Thales Alenia Space has more than 40 years of experience in the design, integration, testing, operation and commissioning of innovative space systems. Featuring cutting-edge technologies, these systems meet the needs of commercial, government, scientific, defense and security customers from around the world. The satellites and payloads designed by Thales Alenia Space set the global standard for space systems that provide communications and navigation services, monitor our environment and the oceans, help us better understand climate change and drive scientific progress.

Thales Alenia Space is also a leading supplier to the International Space Station, and a pivotal player in space systems designed to explore the Universe.

Communications. Thales Alenia Space is one of the world’s leading manufacturers of communications satellites, platforms and payloads, which account for 50% of its business, offering a complete range of solutions, from high-performance components to turnkey systems. The Spacebus family of geostationary platforms meets the needs of operators from around the world, and the payloads have proven their performance, reliability and competitiveness on satellites made by all leading manufacturers. Navigation systems, constellations. Thales Alenia Space is the world leader in Low Earth Orbit (LEO) commercial constellations, with more than 150 satellites ordered for the Iridium NEXT, Globalstar Second Generation and O3b systems. Its expertise reaches back to the 1990s, when being the leading contributor to the first-generation Globalstar system, delivering a total of 72 satellites.
Thales Alenia Space has always been at the forefront of geolocation solutions in Europe, being the prime contractor for Egnos, in charge of producing this navigation overlay system. Thales Alenia Space is a key partner for Galileo, providing the system and the Ground Mission Segment (GMS). Weather and environmental monitoring. Thales Alenia Space has been the prime contractor for European weather satellites for more than three decades. After delivering seven first-generation Meteosat and four Meteosat Second Generation (MSG) satellites, Thales Alenia Space was selected for the Meteosat Third Generation (MTG) program, comprising four imaging and two atmospheric sounding satellites. The company also provides today’s most powerful and sensitive atmospheric instruments, the Infrared Atmospheric Sounding Interferometer (IASI), for the MetOp satellites. Its work on Earth observation systems also continues, with the production of the Sentinel 1 and 3 satellites for operational environmental monitoring as part of Europe’s GMES program - Global Monitoring for Environment and Security.

Climate change. Thales Alenia Space plays a major role in studying our planet’s climate to improve our understanding of the underlying factors, in particular by using the cutting-edge technologies that have revolutionized oceanography. Thales Alenia Space is indeed the world leader in space altimetry, since the French-American Topex-Poseidon mission and, until now, with Jason satellites, CryoSat for the European Space Agency, GFO-2 for the US Navy and the French-Chinese mission CFOSat. ESA has been able to carry out a number of exceptional scientific missions by calling on Thales Alenia Space, including the MERIS imaging spectrometer on the Envisat satellite, to reveal the oceans’ secrets and colors, GOCE (Gravity field and steady-state Ocean Explorer), to provide a precise map of Earth’s gravitational field, and SMOS, the Soil Moisture and Ocean Salinity satellite.

Defense and security. Thales Alenia Space is a strategic supplier of military satellite communications systems in Europe, as prime contractor for three generations of the Syracuse system in France and two generations of its Italian counterpart Sicral, and space segment prime for the German system Satcom BW. The company also produced dual communications (civil/military) payloads for Turkey, Brazil and South Korea. Thales Alenia Space is prime contractor for the Italian radar satellite constellation Cosmo-SkyMed, and supplied radars for the German SAR-Lupe system and Kompasat 5 in South Korea. Furthermore, our high-performance optical instruments are the key to the French observation systems Helios, Pleiades and CSO, as well as the Göktürk 1 satellite for Turkey, delivered as a turnkey system. Science and exploration. To Venus, Mars, Titan, asteroids and comets ...

Thales Alenia Space has always been a pivotal partner in Europe’s missions to explore our Solar System. For instance, we have integrated orbiters, produced sub-surface radars, and above all we designed the Huygens probe, a world first, which explored the atmosphere of Saturn’s largest moon, Titan. Thales Alenia Space is also prime contractor for ExoMars, ESA’s most ambitious Mars mission, and for Herschel and Planck, the largest space observatories ever built in Europe. In addition, we developed Corot, the French “exoplanet” hunter, and we are working on the Alma radiotelescope array in Chile.

Orbital infrastructure and space transport. Thales Alenia Space has supplied fully half of the pressurized volume of the International Space Station, including Nodes 2 and 3, the Multipurpose Pressurized Logistics Modules (MPLM), the Cupola and the structure for the Columbus laboratory, as well as the Integrated Cargo Carriers (ICC) for the ATV spacecraft that ferry supplies to the Space Station. Thales Alenia Space also makes the Pressurized Cargo Modules (PCM) for the Cygnus resupply vessel, in partnership with Orbital Sciences, and is gearing up for future programs as prime contractor for ESA’s IXV and Expert reentry demonstrators.

Advanced electronics from Thales Alenia Space represents about half of the avionics used on the Ariane 5 launcher. In addition, the company is the only European subcontractor on the Russian Soyuz launchers now being operated from the Guiana Space Center in French Guiana, as supplier of the European safety kit.

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Thales Alenia Space has more than 40 years of experience in the design, integration, testing, operation and commissioning of innovative space systems. Featuring cutting-edge technologies, these systems meet the needs of commercial, government, scientific, defense and security customers from around the world. The satellites and payloads designed by Thales Alenia Space set the global standard for space systems that provide communications and navigation services, monitor our environment and the oceans, help us better understand climate change and drive scientific progress. Thales Alenia Space is also a leading supplier to the International Space Station, and a pivotal player in space systems designed to explore the Universe.

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Thales Alenia Space is prime contractor for the Italian radar satellite constellation Cosmo-SkyMed, and supplied radars for the German SAR-Lupe system and Kompasat 5 in South Korea. Furthermore, our high-performance optical instruments are the key to the French observation systems Helios, Pleiades and CSO, as well as the Gökçük 1 satellite for Turkey, delivered as a turnkey system. Science and exploration. To Venus, Mars, Titan, asteroids and comets…

Thales Alenia Space has always been a pivotal partner in Europe’s missions to explore our Solar System. For instance, we have integrated orbiters, produced sub-surface radars, and above all we designed the Huygens probe, a world first, which explored the atmosphere of Saturn’s largest moon, Titan. Thales Alenia Space is also prime contractor for ExoMars, ESA’s most ambitious Mars mission, and for Herschel and Planck, the largest space observatories ever built in Europe. In addition, we developed Corot, the French “exoplanet” hunter, and we are working on the Alma radiotelescope array in Chile.

Orbital infrastructure and space transport. Thales Alenia Space has supplied fully half of the pressurized volume of the International Space Station, including Nodes 2 and 3, the Multipurpose Pressurized Logistics Modules (MPLM), the Cupola and the structure for the Columbus laboratory, as well as the Integrated Cargo Carriers (ICC) for the ATV spacecraft that ferry supplies to the Space Station. Thales Alenia Space also makes the Pressurized Cargo Modules (PCM) for the Cygnus resupply vessel, in partnership with Orbital Sciences, and is gearing up for future programs as prime contractor for ESA’s IXV and Expert reentry demonstrators.

Advanced electronics from Thales Alenia Space represents about half of the avionics used on the Ariane 5 launcher. In addition, the company is the only European subcontractor on the Russian Soyuz launchers now being operated from the Guiana Space Center in French Guiana, as supplier of the European safety kit.

The Aerospace Corporation has provided independent technical and scientific research, development, and advisory services to national security space programs since 1960.
We operate a federally funded research and development center (FFRDC) for the United States of America Air Force and the National Reconnaissance Office and support all national security space programs. We also apply more than 50 years of experience with space systems to projects for civil agencies like NASA and the National Oceanic and Atmospheric Administration, commercial companies, universities, and international organizations in the national interest. From our inception, our highly skilled technical staff has focused on ensuring the success of every mission and developing the most effective and economic space-related hardware and software in the world.

Our insight and involvement in space programs has significantly reduced the risk of launch failure and increased both satellite endurance and performance. Avoiding a single catastrophic failure resulting in the loss of operational capabilities can save the government more than three times the total annual Aerospace FFRDC budget. Our greatest asset is the technical expertise of our people. Our involvement spans all facets of space systems, including systems engineering, testing, analysis, and development, acquisition support, launch readiness and certification, anomaly resolution, and the application of new technologies for existing and next-generation space systems. Our state-of-the-art laboratory facilities are staffed by some of the leading scientists in the world.

The Aerospace Corporation is headquartered in El Segundo, California, and has other locations throughout the nation. The staff comprises approximately 4,000 employees, two-thirds of whom are members of the technical staff.

The Andy Thomas Foundation

THE ANDY THOMAS SPACE FOUNDATION

Member since: 2020

Mail:  
Web:

The main goal of the Foundation is to promote innovation and social well-being in Australia by advancing the cause of space and increasing awareness of its benefits for our nation.

The Foundation is committed to promoting and supporting the highest quality space activities in Australia to drive progress in education, research and innovation to ensure that the space sector is a key contributor to Australia’s economic transformation.

The Foundation intends to achieve its goals by generating income through membership fees, grants, philanthropic donations and conducting public events

This revenue will support projects such as:
- The Australian Space Discovery Centre in initiatives focused on inspiring young students
- A Grassroots Program
- Career-level scholarship support.

The Boeing Company

Member since: 1985

Web: http://www.boeing.com/

Boeing is the world’s largest aerospace company and leading manufacturer of commercial jetliners and defense, space and security systems. A top U.S. exporter, the company supports airlines and U.S. and allied government customers in 150 countries. Boeing products and tailored services include commercial and military aircraft, satellites, weapons, electronic and defense systems, launch systems, advanced information and communication systems, and performance-based logistics and training.

Boeing has a long tradition of aerospace leadership and innovation. The company continues to expand its product line and services to meet emerging customer needs. Its broad range of capabilities includes creating new, more efficient members of its commercial airplane family, integrating military platforms, defense systems and the warfighter through network-enabled solutions, creating advanced technology solutions, and arranging innovative customer-financing options. With corporate offices in Chicago, Boeing employs more than 170,000 people across the United States of America and in 70 countries. This represents one of the most diverse, talented and innovative workforces anywhere. More than 140,000 employees hold college degrees — including nearly 35,000 advanced degrees — in virtually every business and technical field from approximately 2,700 colleges and universities worldwide.

Our enterprise also leverages the talents of hundreds of thousands more skilled people working for Boeing suppliers worldwide. Boeing is organized into two business units: Boeing Commercial Airplanes and Boeing Defense, Space & Security. Supporting these units are Boeing Capital Corporation, a global provider of financing solutions, the Shared Services Group, which provides a broad range of services to Boeing worldwide, and Boeing Engineering, Operations & Technology, which helps develop, acquire, apply and protect innovative technologies and processes.
Boeing Defense, Space & Security (BDS) provides end-to-end services for large-scale systems that enhance air-, land-, sea- and space-based platforms for global military, government and commercial customers. In addition to designing, producing, modifying and supporting fighters, bombers, transports, rotorcraft, aerial refuelers, missiles, munitions and spacecraft for military, civil and commercial use, BDS is developing enhanced capabilities through network-enabled solutions, communications and intelligence, surveillance and reconnaissance technologies.

BDS supports the U.S. government as a system integrator on several programs of national significance, including NASA’s International Space Station and, the Missile Defense Agency’s Ground-based Midcourse Defense program. BDS is also expanding into new markets and adjacencies, including unmanned systems, cyber security, energy management, and support and logistics.

THE CHINESE AERONAUTICAL AND ASTRONAUTICAL SOCIETY LOCATED IN TAIPEI

Member since: 1958
Mail: aasrc.office@gmail.com
Web: http://www.ncku.edu.tw

THE BRITISH INTERPLANETARY SOCIETY

Member since: 1987
Web: http://www.bis-spaceflight.com/

The British Interplanetary Society (BIS) is Britain’s leading think tank on space development. Founded in 1933, it is the world’s longest established organization devoted solely to supporting and promoting the exploration of space and astronautics.

The BIS is financially independent, has charitable status, and obtains its main income from a worldwide membership. The British Interplanetary Society is devoted to initiating, promoting and disseminating new concepts and technical information about space flight and astronautics through meetings, symposia, publications, visits and exhibitions. The BIS played a leading role in creating the International Astronautical Federation, (IAF). The IAF was effectively born in London in September 1951 at the second IAF Congress, the first was a preliminary meeting in Paris the previous year. The IAF Congresses have become extremely important in bringing together delegates from many nations to discuss and share ideas.

THE FEDERAL UNIVERSITY OF TECHNOLOGY, AKURE (FUTA)

Member since: 2014
Web: https://www.futa.edu.ng/futacms/

FUTA activities are mainly:

Develop and offer academic and professional programmes leading to the award of certificates, diplomas, first degrees and postgraduate degrees

Acts as agent and catalyst, through postgraduate research and training for efficient, effective and economic utilization, exploitation and conservation of Nigeria’s natural and human resources

Identify technological problems and needs of the society and solve them within the context of national needs

Provide and promote sound basic scientific training reflecting indigenous culture and enhancing national unity.
THE INSTITUTE FOR EARTH AND SPACE EXPLORATION, WESTER UNIVERSITY

Member since: 2020

Mail:
Web:

The Institute for Earth and Space Exploration, Western University will benefit the entire Canadian space community as we inspire and train the next generation of scientists and engineers.

THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY

Member since: 2006

Web: http://www.jhuapl.edu/

The Applied Physics Laboratory (APL) is a not-for-profit center for engineering, research, and development. Located north of Washington, DC, APL is a division of one of the world’s premier research universities, The Johns Hopkins University (JHU). The Laboratory has been a major asset to the nation since it was organized to develop a critical World War II technology in 1942. We recruit and hire the best and the brightest from top colleges, and 68% of our recruits are engineers and scientists. We work on more than 600 programs that protect our homeland and advance the nation’s vision in research and space science, at an annual funding level of about $980 million.

APL solves complex research, engineering, and analytical problems that present critical challenges to our nation. That’s how we decide what work we will pursue, and it’s how we’ve chosen to benchmark our success. Our sponsors include most of the nation’s pivotal government agencies. The expertise we bring includes highly qualified and technically diverse teams with hands-on operational knowledge of the military and security environments. We offer an outstanding and creative staff, augmented by world-class facilities.

THE KOREAN SOCIETY FOR AERONAUTICAL AND SPACE SCIENCES

Member since: 2007

Mail: ksas@ksass.or.kr
Web: http://www.ksass.or.kr

Goals

- To facilitate advances in academic activities amongst the members of society for promotion of aerospace science and technology for national interest
- To facilitate cooperation amongst industry, academia, and laboratory and to promote exchange between academic and technical information
- To promote various memberships (Regular, Special, Sponsor, Student)
- To promote activities of each divisions(Aircraft System, Satellite System, Rotorcraft System, Aerodynamics and Applications, Structures and Materials, Guidance Navigation Control, Propulsion, Aviation Operation, Aviation Policy, Design and System Integration, Avionics, Manufacturing and Production, etc.)

THE NATIONAL AEROSPACE EDUCATIONAL CENTER OF UKRAINIAN YOUTH

Member since: 2013

Mail: ncaomu@email.dp.ua
Web: http://www.unaec.dp.ua/en/

Principal strategic directions of the Center activities consist of practical realization of the youth policy of the Ukrainian Government in aerospace education domain, creation of favorable conditions for intellectual growth of the young generation, searching and all-round support of talented young people, formation of scientific-and-technical elite of Ukraine.
The main content of the Center’s work is its educational and research activity as a part of implementation of tasks of the National Space Program of Ukraine, development of the system of aerospace education and introduction of various forms of training.

THE NATIONAL SPACE SCIENCE AND TECHNOLOGY CENTER (NSSTC)
Member since: 2019
Mail: nsstc@uaeu.ac.ae
Web: https://www.uae.ac.ae/en/dvcrgs/research/centers/nsstc/

The National Space Science and Technology Center (NSSTC) has been established jointly by UAEU, the UAE Space Agency and the Telecommunications Regulatory Authority (ICT-Fund). The creation of the NSSTC was primarily motivated by UAEU's desire to strengthen its role and contribute to the needs of the nation in terms of Space Science and Space Technology in order to become the Space Science and Technology hub for the region. The main focuses of the NSSTC are on research and development, higher education and community outreach. The center’s priorities are three-fold: excellence in Space Science, leadership in Space Technology and providing innovative solutions to social challenges.

Vision
To be the UAE's Center of Excellence in Space Science and Space Technology and to provide innovate solutions to challenges facing the country.

Mission
Develop national research programmes in Space Science and Technology to serve the UAE’s national agenda.

Conduct cutting-edge applied research in Space Science and Technology.

Educate and Train future UAE leaders in Space Science and Technology.

Create new technology and knowhow in Space Science and Technology to transfer to industry.

Promote Space Science and Technology through educational programmes and exhibitions.

THE OHIO STATE UNIVERSITY COLLEGE OF ENGINEERING
Member since: 2014
Web: https://engineering.osu.edu/

Ohio State’s College of Engineering and Knowlton School of Architecture strive to foster a learning culture that prepares students to be key contributors to society through their technological, professional and personal skills. Our faculty and our students thrive in an environment of new ideas and concepts that expand the understanding of science, engineering and architecture.

In addition to being an innovative leader in engineering and architecture education, we endeavor to fulfill our university’s land-grant mission of advancing Ohio’s economic mobility, competitiveness and standard of living through our contributions toward technology and creativity, continuous improvement, a diverse workforce and lifelong learning. The college also is firmly committed to and a catalyst for the University’s Discovery Themes: Energy and Environment, Food Production and Security, and Health and Wellness.

THE PLANETARY SOCIETY
Member since: 1999
Mail: tps@planetary.org
Web: http://planetary.org/

The Planetary Society sponsors projects that will seed innovative space technologies, nurtures creative young minds, and is a vital advocate for our future in space.
THE SERGEI KOROLEV SPACE MUSEUM
Member since: 2014
Mail: post@cosmosmuseum.info
Web: https://cosmosmuseum.info/

THE UNIVERSITY OF SYDNEY
Member since: 2017
Mail:
Web: https://www.sydney.edu.au/

The object of the University is the promotion, within the limits of the University’s resources, of scholarship, research, free inquiry, the interaction of research and teaching, and academic excellence.

The University has the following principal functions for the promotion of its object:

a) the provision of facilities for education and research of university standard,

b) the encouragement of the dissemination, advancement, development and application of knowledge informed by free inquiry,

c) the provision of courses of study or instruction across a range of fields, and the carrying out of research, to meet the needs of the community,

d) the participation in public discourse,

e) the conferring of degrees, including those of Bachelor, Master and Doctor, and the awarding of diplomas, certificates and other awards

f) the provision of teaching and learning that engage with advanced knowledge and inquiry

g) the development of governance, procedural rules, admission policies, financial arrangements and quality assurance processes that are underpinned by the values and goals referred to in the functions set out in this subsection, and that are sufficient to ensure the integrity of the University’s academic programs.

THRUSTME
Member since: 2019
Web: https://www.thrustme.fr/

ThrustMe was created to enable an economically and environmentally sustainable space industry. Our core activity is the development and commercialization of unique standalone, fully integrated Space propulsion systems for next generation satellites. We also provide high-end engineering services for space and ground applications. We are a highly qualified and multidisciplinary team with expertise in plasma physics, electric propulsion, fluid dynamics, thermal management, digital and power electronics and chemistry.

TNO
Member since: 1997
Mail: infodesk@tno.nl
Web: http://www.tno.nl/

TNO is an independent research organisation whose expertise and research make an important contribution to the competitiveness of companies and organisations, to the economy and to the quality of society as a whole. TNO’s unique position is attributable to its versatility and capacity to integrate this knowledge. Innovation with purpose is what TNO stands for. We develop knowledge not for its own sake but for practical application. To create new products that make life more pleasant and valuable and help companies innovate. To find creative answers to the questions posed by society.
Tsinghua University is a research university located in Beijing, and it is ranked as one of the top academic institutions in China and Asia, placing 14th worldwide in the 2017 Times Higher Education World Reputation Rankings. Tsinghua University is the best engineering school in the world, ranking 1st among 250 universities in the Best Global Universities for Engineering list, which consists of top universities from around the world that have shown strength in producing research and achievements on a variety of engineering topics. Small satellite is one of the important research fields. Up to 2016, there are four small satellites have been launched, including the first micro-satellite in China in 2000. School of Aerospace Engineering of Tsinghua University was founded in 2004.

TÜBİTAK

The Scientific and Technological Research Council of Turkey (TÜBİTAK) is the leading agency for management, funding and conduct of research in Turkey. It was established in 1963 with a mission to advance science and technology, conduct research and support Turkish researchers. The Council is an autonomous institution and is governed by a Scientific Board whose members are selected from prominent scholars from universities, industry and research institutions.

TÜBİTAK is responsible for promoting, developing, organizing, conducting and coordinating research and development in line with national targets and priorities.

TÜBİTAK acts as an advisory agency to the Turkish Government on science and research issues, and is the secretariat of the Supreme Council for Science and Technology (SCST), the highest S&T policy making body in Turkey.
U.S. GEOLOGICAL SURVEY

Member since: 2007
Web: http://www.usgs.gov/

The USGS is a science organization that provides impartial information on the health of our ecosystems and environment, the natural hazards that threaten us, the natural resources we rely on, the impacts of climate and land-use change, and the core science systems that help us provide timely, relevant, and useful information.

UAE SPACE AGENCY

Member since: 2016
Mail: info@space.gov.ae
Web: https://www.space.gov.ae/

In July 2014 UAE President His Highness Sheikh Khalifa bin Zayed Al Nahyan announced a decree to set up a UAE SA that will report directly to the Cabinet and enjoy financial and administrative independence. The UAE SA primary mandates are:

- Develop, organize, support, guide and coordinate the UAE’s growing Space sector that contributes to a diversified UAE national economy and which supports sustainable development,
- The development and use of Space science and technology within the UAE and provide support and advice in these areas,
- Raise awareness of the importance of the Space sector and the development of the qualified human resources in the Space field,
- Develop the necessary Space policy and regulation, and support their enforcement,
- Enhancing the UAE’s position as a global player in aerospace,
- Establish international partnerships in the Space sector, and help support knowledge transfer. The UAE SA will also be responsible for facilitating, supporting as well as supervising UAE national Space programs, such as the UAE Mission to Mars.

UK SPACE AGENCY

Member since: 1987
Web: http://www.bis.gov.uk/ukspaceagency

The UK Space Agency is at the heart of UK efforts to explore and benefit from space. The UK’s thriving space sector contributes £9.1 billion a year to the UK economy and directly employs 28,900 with an average growth rate of almost 7.5%. The Agency provides funding for a range of programmes via programmes such as the National Space Technology Programme and FP7 and works closely with national and international academic, education and community partners.

UNITED LAUNCH ALLIANCE LLC

Member since: 2019
Web: https://www.ulalaunch.com/

United Launch Alliance (ULA) is a leading launch service provider. Through our Atlas and Delta launch vehicle programmes, we have successfully delivered more than 135 missions to orbit. ULA has helped aid meteorologists in tracking severe weather, unlock the mysteries of our solar system, provide critical capabilities for troops in the field and enable personal device-based GPS navigation.
UNIVERSITI TEKNOLOGI MARA (UITM)

Member since: 2016

Mail: mohdfozi@uitm.edu.my

Universiti Teknologi MARA (MIMA) is one of a public university in Malaysia. Currently, LIMO has 24 faculties and 3 academic centres and offers 373 programmes. The faculties are grouped into 3 clusters, Science & Technology, Social Sciences and Humanities, and Business and Management. The primary activities are education and research.

UNIVERSITY MEDITERRANEA OF REGGIO CALABRIA

Member since: 2019

Web: http://www.unirc.it/

The University Mediterranea of Reggio Calabria, founded in 1968, is a public Higher Education institution located in Southern Italy, barycentric to Mediterranean Sea. The number of students in the Academic Year 2018-2019 is around 6,000 units. The University’s core research and teaching areas are: Forest and Agricultural Sciences, Architecture, Economy, Engineering, Law and Human Sciences. The University offers 20 graduation Courses and 5 Doctorates. International, inter-personal and inter-institutional networks as well as projects developed in cooperation with international universities are reflected in its teaching and research activities so as to foster innovation and update learning contents, project incubation, curriculum development, scientific research and training. International projects are fully integrated into the life of the institution. In 2018 the University staff counts more than 250 permanent teaching and research people and about 180 units of technical-administrative personnel. The 6 Departments manage more than 60 Laboratories supporting scientific and industrial research, experimental development and educational activities. The University finalized many areas to promote cultural, recreational and social activities, sports that integrate the training opportunities afforded by ordinary teaching activities.

UNIVERSITY OF ADELAIDE

Member since: 2016

Web: https://www.adelaide.edu.au/

The University of Adelaide is a public university in Adelaide, South Australia. Established in 1874, it is the third-oldest university in Australia and is consistently ranked among the top 1% of universities worldwide.

The object of the University is the advancement of learning and knowledge, including the provision of University education.

UNIVERSITY OF ALABAMA IN HUNTSVILLE

Member since: 2011

Web: http://www.uah.edu/

The University of Alabama in Huntsville (UAH) is a public co-educational, state-supported research university within The University of Alabama System. UAHuntsville was founded as part of the University of Alabama in 1950 and became an autonomous campus within the UA System in 1969.

New areas dedicated to administrative services are available for the students, researchers and teachers as free Wi-Fi, scholarships, two colleges (students’ residences) to increase the accommodation capacity of offsite and foreign students, theatre, workshops. With a dense programme of cultural events distributed along the year, the University improves its commitment to global research and teaching. Concerts, workshops and activities in collaboration with student associations are advertised in specific sections of the University portal.
The Department of Aerospace Engineering of the University of Naples Federico II has a long tradition dating its roots back in 1926, when the Laboratory of Aeronautical Structures was established by Gen. Prof. Umberto Nobile, famous designer, pilot of airships and polar explorer.

The new Department of Aerospace Engineering has been started, 1 January 2007, as a result of cooperative collaboration of previous academic institutions active in the fields of aeronautics and space sciences.

More than eighty years of continuing research and developments have built a solid and accredited tradition of excellence based upon a strong relationship between the academic community, the aerospace industry and the research centers, locally and internationally. The Department of Aerospace Engineering plays an important role in the European Scientific Community through a continuous contribution to the most important European funded research projects, furthermore stable collaborations with the most important European and US Universities are the witness of an established tradition of education of aerospace sciences.

The mission of the Department of Aerospace Engineering is:

- to perform research and developments throughout all the aerospace disciplines
- to contribute to the best training of future aerospace engineers
- to establish an effective and direct link with graduate and undergraduate students
- to maintain the technical and scientific state of the art for the aerospace community
- to develop and to improve the reputation of its laboratories.

Main research activities in the Space field deal with Microgravity, Aerothermodynamics, Space Systems and Remote Sensing.

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UniSA is a globally focused, locally-engaged institution involved in teaching and research of more than 33,000 students. The University offers more than 400 degree programs across a wide range of subjects including business, law, education, arts, social sciences, health sciences, information technology, engineering and the environment.

UniSA’s activities include teaching and research in many application areas of space including communications, geospatial and remote sensing.

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Established in 1990, the University of Vigo has managed to consolidate itself in time as a reference of modernity and innovation in Galicia. Its three campuses at Ourense, Pontevedra and Vigo offer degree programs in the fields of science, humanities, technology and legal-social. These are distributed over nearly thirty centres where research groups also carry out their R&D activities. A network of own centres completes the research infrastructure map of the University of Vigo, which has been ranked fifteenth in the classification of Spanish universities for its scientific production.
University POLITEHNICA of Bucharest is the largest and the oldest technical university in the country and among the most prestigious universities in Romania. The tradition of our institution, developed in over 190 years through the effort of the most important nation’s schoolmasters and of the generations of students, is not the only convincing reason. Today, the POLITEHNICA University of Bucharest is undergoing a continuous modernization process, being involved in a permanent dialogue with great universities in Europe and all over the world.

The mission of the POLITEHNICA University of Bucharest has been thought over as a blend of education, research and innovation, which represents a key towards a knowledge-based society and economy. Creating knowledge mainly by scientific research, giving it out by education and professional training, disseminating it by information technologies, as well as the use of technological innovation are elements that define the university distinctive profile.

The University Space Program is a leading Mexican research centre on geomagnetism and paleomagnetism, natural resources, seismology, space sciences and volcanology. It is part of the Universidad Nacional Autonoma de Mexico. Research is carried out on the sun, magnetospheres, high atmosphere, cosmic rays, planetology and space weather.

The University Space Program is a leading Mexican research centre on geomagnetism and paleomagnetism, natural resources, seismology, space sciences and volcanology. It is part of the Universidad Nacional Autonoma de Mexico. Research is carried out on the sun, magnetospheres, high atmosphere, cosmic rays, planetology and space weather.

The roots of the Julius Maximilian University of Würzburg reach back as far as 1402 AD. In that era, it was the sixth institution of higher learning to be founded in the German-speaking regions of Europe, after the Universities of Prague, Vienna, Heidelberg, Cologne, and Erfurt.

Nobel Laureates

Many eminent scholars and scientists, 14 Nobel Laureates among them, have researched and taught in Würzburg. Rudolf Virchow, Carl Siebold, and Franz Brentano are in that number, as well as Wilhelm Conrad Röntgen, who discovered X-rays at Würzburg in 1895, or Klaus von Klitzing, discoverer of the Quantum-Hall Effect.

Today, Würzburg’s university is counted among the medium-sized institutions of higher learning in Germany. At ten faculties, about 400 professors teach around 24,000 students.

An Extensive Choice of Subjects

Having grown over more than six centuries, the course catalog of the University of Würzburg offers a wide range of subjects. Many new study programs have been added to the list of the classic four- Medicine, Theology, Philosophy, and the Law. The most recent are Nanostructure Technology, Technology of Functional Materials, Biomedicine, Modern China, the FOKUS Physics Bavarian Excellence Program, Media Communications, Human Factors in Computing Systems and Museology- to name but a few.

The University of Würzburg remains clearly and strongly committed to the Four Pillars- The Humanities, the Law and Economics, Life Sciences, Natural Science and Technology.

A Policy of Expansion

It is not only the list of study options that has grown over the years. The University itself has been expanding continuously. The generous grounds of Hubland Campus are situated on a hill at the eastern edge of the city. Newly-designed study programs and the steady influx of students continue to drive the institution’s growth. In 2011, the University has started to spread over the Campus Nord, a 39-hectare area which directly borders on Hubland Campus.

Würzburg University holds a position among the leading institutions in Germany- this is verified by the rankings of domestic and international research organizations and of international expert committees. On an international level as well, the University of Würzburg rates in the top bracket of academic institutions in many disciplines of science, for instance, in Biology, Medicine, Physics, and Psychology.
Research Centers as a Trademark

As early as in the 1990s, the University began founding cross-faculty research centers, opening up new subjects for investigation and research and innovative study programs. These interdisciplinary centers- the Center for Infection Research is one of them- have by now become an internationally prominent trademark of the University of Würzburg.

Creating research centers has provided enormous thrust and has pushed the University into the top-level group of German academic institutions. The successful integration of the centers into the structures of the University has had many positive effects. Among others, it has rapidly boosted the amounts of public funding, private donations, or research funds raised from industrial companies. And the number of academically prestigious publications since the mid-1990s has grown, even though the endowment of the University of Würzburg with positions for professors and assistants remained almost constant in that period.

Science and Success

The scientific standing of the University of Würzburg also shows in its numerous Collaborative Research Centers, Research Training Groups, and Research Units, whose funding by the German Research Foundation (DFG) Würzburg’s scientists have raised against heavy competition.

In 2002, the University of Würzburg launched one of the three Centers of Excellence the DFG funded across Germany- Rudolf Virchow Center/DFG Research Center for Experimental Biomedicine. Its teams investigate key proteins, which are especially important for sustained health, respectively in the origin of diseases.

Promoting the Next Generation

The University of Würzburg regards the promotion of junior academics as an essential responsibility. Establishing its Graduate Schools in 2004 constitutes another milestone in this endeavor. These institutions provide doctoral candidates with the appropriate structures and formats to continue and enhance their education.
Valispace is a browser-based software that enables engineers to collaboratively develop better satellites, rockets and other complex hardware products: Valispace has been founded by three Satellite Engineers, observing that the space industry is lacking a systems engineering software to cope with the ever increasing demands of complex space missions. Using the principles & methods developed in the space industry, such as Concurrent Engineering and Model Based Design, Valispace has developed a tool that is now in use throughout all development phases of space companies such as Airbus, Gomspace, Ripple Aerospace, etc.

The Victorian Space Science Education Centre (VSSEC) is one of six Specialist Science Centres established by the Victorian State Government. The then Victorian Treasurer, the Hon. Mr John Brumby officially opened it in 2006. VSSEC uses the context of space to engage teachers and students in the teaching and learning of science and mathematics.

VSSEC is situated on the grounds of Strathmore Secondary College and its inspiring spiral galaxy shaped building, designed by Gregory Burgess Architects, offers a stimulating environment for hands-on learning. All areas within the Centre are supported by an integrated technology system, which supports a rich learning environment.

VSSEC applies the latest educational research to develop effective programs for both students and teachers. To maintain the highest level of excellence in both pedagogy and science/mathematics content VSSEC established an advisory board consisting of representatives from academia, education, industry and government.

VSSEC’s programmes support dedicated subject and cross-curricula domains. These programmes are delivered in context and highlight career and study paths. Programmes predominantly support secondary and primary school learning however, VSSEC offers a range of outreach programmes for primary students and events to engage the general public.

Vietnam National Satellite Center (VNSC) is a research center under Vietnam Academy of Science and Technology (VAST). VNSC has the functions of research and development, technology applications, and development of high quality human resource in satellite technology, receive, manage and implement Vietnam Space Center Project.

Virgin Galactic, LLC provides commercial spaceflight services through its passenger-carrying suborbital space vehicles. It develops its space vehicles. The company was founded in 2004 and is based in Las Cruces, New Mexico. Virgin Galactic, LLC operates as a subsidiary of Virgin Group Ltd.
**VITERBI SCHOOL OF ENGINEERING, USC**

Member since: 2017  
Web: [https://viterbischool.usc.edu/](https://viterbischool.usc.edu/)

The USC Viterbi School of Engineering is innovative, elite and internationally recognized for creating new models of education, research and commercialization that are firmly rooted in real world needs. The school’s first priorities are the education of outstanding students and the pursuit and publication of new research.

As the school’s faculty and students extend the frontiers of engineering knowledge through their research, they also apply engineering and technology to address societal challenges. The school stimulates and encourages qualities of scholarship, leadership, ambition and character that mark the true academic and professional engineer — to serve California, the nation and the world. At USC Viterbi, we call this the enabling power of Engineering.

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**VITO NV**

Member since: 2013  
Mail: tanja.vanachteren@vito.be  

VITO (Flemish Institute for Technological Research) is a leading European independent research and consultancy centre in the areas of cleantech and sustainable development. VITO’s Remote Sensing Department develops and operates new and improved remote sensing systems and produces innovative services and products for end users in the field of vegetation, agriculture, biodiversity and environmental applications.

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**VON KARMAN INSTITUTE FOR FLUID DYNAMICS**

Member since: 2007  
Mail: secretariat@vki.ac.be  
Web: [http://www.vki.ac.be/](http://www.vki.ac.be/)

VKI is a non-profit international educational and scientific organisation, hosting three departments (aeronautics and aerospace, environmental and applied fluid dynamics, and turbomachinery & propulsion). It provides post-graduate education in fluid dynamics (research master in fluid dynamics, former “VKI Diploma Course”, doctoral programme, stagiaire programme and lecture series) and encourages “training in research through research”. The von Karman Institute undertakes and promotes research in the field of fluid dynamics. It possesses about fifty different wind tunnels, turbomachinery and other specialized test facilities, some of which are unique or the largest in the world. Extensive research on experimental, computational and theoretical aspects of gas and liquid flows is carried out at the VKI under the direction of the faculty and research engineers, sponsored mainly by governmental and international agencies as well as industries.

The von Karman Institute organises each year 8 to 12 one-week Lecture Series on specialized topics in the field of aerodynamics, fluid mechanics and heat transfer with application to aeronautics, space, turbomachinery, the environment and industrial fluid dynamics. These courses have gained over the years world wide recognition for their high quality which is the result of a careful choice of subjects of current interest and lecturers known for their excellency in that field and willing to co-operate in building up well-structured courses.
WEPA is a one-stop solution provider in selected fields of Aerospace, Automation, Mechanical- and Process Engineering. Core competencies are planning, development and manufacturing of non-standard solutions and prototypes.

We are able to offer customers solutions adapted to even very specific requirements. Due to our workshop capabilities we are able to respond fast to inquiries and guarantee a maximum of confidentiality, as most manufacturing steps can be completed in house.

Performance testing of equipment, machines and experimental setups can be realized.

Current projects in the field of Aerospace / Rocket Technology includes the following activities:

Mobile Hydrogen Peroxide Production plants (90- 98 %, HTP for Rocket Propulsion)

WEPA-Technologies delivers HTP plants covering a broad range of production capacities between laboratory and industrial size (semi-continuous 0,5 kg / h up to continuous 60 kg / h (24 / 7 )).

The scope of activities does encompass the full range starting with project definition, process design, safety analysis, sourcing of equipment, assembly and commissioning. Specific customer requirements, as for example fast relocation of plant to different production sites by using containerized designs can be considered.

Feedstock used is low cost, commercial grade 30- 60 % Hydrogen Peroxide. Stabilizers and impurities present will be removed within one of the process units, therefore the product can be used with standard catalysts.

Turbo Pumps

WEPA develops customer specific Turbo Pumps working with LOX, H2O2, Liquified Natural Gas (LNG), Kerosene and Alcohol. Most of the propellants listed have been asked for by different parties during IAC Fair.

At present a technology demonstrator pump using LOX / LNG is being manufactured. This pump is to be matched with a 6-ton, LOX / LNG rocket engine being developed in a currently released collaboration with BlackEngine Aerospace, German Aerospace Center (DLR), WEPA-Technologies, University of Stuttgart and Kaiserslautern University of Technology. First tests are planned to commence in mid 2019.

WFB Wirtschaftsförderung Bremen GmbH („WFB Bremen“) is responsible, on behalf of the Free Hanseatic City of Bremen, for developing, strengthening and marketing Bremen as a location for business, trade fairs and events. Its services and products are primarily aimed at helping to secure and create jobs in Bremen and at providing businesses in Bremen with an optimal environment for entrepreneurial success.

WFB Bremen acts as central service-providing body for all matters concerning business, economic and regional development in Bremen. In 2009 the former Bremer Investitionsgesellschaft („BIG“), which was founded in 1998, merged with Bremen Marketing GmbH, Hanseatic City Event GmbH and Messe Bremen GmbH to WFB Wirtschaftsförderung Bremen.

WOMEN IN AEROSPACE EUROPE (WIA-E)

Member since: 2013
Mail: info@wia-europe.org
Web: https://www.wia-europe.org/

increasing their visibility in the aerospace community, by creating a network in Europe and across the globe.

Our membership, consisting of both women and men, share an interest in a broad spectrum of aerospace issues, including human space flight and exploration, aviation, remote sensing, satellite communications, robotic missions, commercial space, space tourism, and the policy issues surrounding these fields.

The goals of WIA Europe are to:
Be a networking platform for women in aerospace
Attract more women to the aerospace sector
Foster the interests of women working in aerospace
Improve access of women to leadership positions in aerospace
Advance aerospace education
Advocate political commitment to aerospace programmes
Recognise the achievements of women in aerospace
Be an ambassador for aerospace in Europe

XOVIAN RESEARCH & TECHNOLOGIES PVT. LTD
Member since: 2014
Web: https://www.xovian.co.in/

Xovian is an instigator for the research and development aiming to acknowledge and empower each and every innovator to serve for the betterment of humankind in advancing and promulgating knowledge and implementing the parameters all across the globe in an incredible manner. We are pioneer in research and development to provide our superior and sustainable services for the Manufacturing Industry, Aerospace & Defence market

YUZHNOYE STATE DESIGN OFFICE
Member since: 2000
Web: http://www.yuzhnoye.com

Yuzhnoye SDO is a powerful design company which in cooperation with its partners provides turnkey developments for complicated high-tech projects. The main directions of the Yuzhnoye’s activities remain works associated with creation and operation of the space-rocket technology. Launch vehicles, spacecraft and rocket engines developed by Yuzhnoye meet the highest criteria of the modern science. Recent years, taking into account vital society’s needs some conversion lines of activities have been developing. These lines are: creation of technology for power engineering including renewable energy sources, creation of some transport systems, creation of agricultural machinery.

WORLD SPACE WEEK ASSOCIATION
Member since: 1997
Mail: admin@worldspaceweek.org
Web: http://www.worldspaceweek.org/

It is an international celebration of science and technology, and their contribution to the betterment of the human condition. The United Nations General Assembly declared in 1999 that World Space Week will be held each year from 4-10 October.

These dates commemorate two events:

- 4 October 1957: Launch of the first human-made Earth satellite, Sputnik 1, thus opening the way for space exploration
- 10 October 1967: The signing of the Treaty on Principles Governing the Activities of States in the Exploration and Peaceful Uses of Outer Space, including the Moon and Other Celestial Bodies.
The Center of Applied Space Technology and Microgravity (ZARM) is part of the Department of Production Engineering at the University of Bremen.

In September 1985, the institute was established as a research center mainly concentrated on the investigation of phenomena under conditions of weightlessness and questions related to space technology. Within only 6 years ZARM became the largest and one of the most important university institutes for space technology in Europe. ZARM employs about 80 scientists, engineers and administrative staff as well as many students from different departments like production engineering, physical sciences or information technologies.

The main laboratory is the drop tower, which offers the opportunity for short-term experiments under high-quality microgravity conditions. The ZARM Drop Tower Operation and Service Company (ZARM FAB) was established in 1990 along with the start of operation of the Bremen Drop Tower and employs further technical and administrative staff.

ZARM FAB GMBH
Member since: 1997
Web: http://www.zarm.uni-bremen.de/

ZERO 2 INFINITY
Member since: 2014
Mail:
Web: http://www.zero2infinity.space/

High attitude ballooning for scientific and technical customers. The project is to carry passengers to 36 km on our balloons, and in another configuration to carry a small launcher for nanosatellites (rockoon concept).

ZHARM ORBITA AEROSPACE SCIENCE & TECHNOLOGY CO. LTD
Member since: 2018
Web: http://www.myorbita.net/company/index_69.aspx

Zhuhai Orbita Aerospace Science & Technology Co. Ltd is a new commercial space company in Zhuhai City, Guangdong Province, China, and engaged in the independent production research in the field of core-level aerospace chips/system (SOC, SIP, EMBC), Micro/Nano satellite constellation, ground receiving station construction, satellite big data processing, micro-aircraft, etc. The products and technology services in aerospace, industrial control, land resources, municipal engineering, intelligent security, public consumption and so on.
Are you a Proud IAF Member?
Say it out loud to the world!

Contact

martina.fabbiani@iafastro.org

to receive your IAF Proud Member Logo!
Become an IAF Member

Shape the Conversation

- Participate in the IAF Committees in charge of defining the Technical Programme
- Propose to host a Plenary Event during the IAC
- Propose a Global Networking Forum (GNF) Event to showcase your organization’s latest achievements or to discuss the most interesting topics about Space
- Participate and vote in the General Assembly and nominate IAF Officers
- Host one of our events!

Connecting @ll Space People

**Our Benefits**

**Networking**
- Access a global network of potential business partners and meet decision makers
- Promote your organization to the workforce of tomorrow
- Attract and exchange with students and young professionals at our targeted events
- Interact with your peers in exclusive IAF members lounges
- Shape the space community by nominating an IAF Bureau Member

**Visibility**
- Promote your organization on the IAF website, social media and the IAFastro app
- Reach more than 30,000 subscribers worldwide through the IAF Newsletter and Members’ corner
- Gain visibility for your organization through the IAF publications
- Be included in all IAF promotional materials

**Recognition**
- Earn public recognition of your organization’s achievements
- Nominate candidates and be nominated for the IAF Awards
- Access IAF events through IAF Grants Programmes
- Get privileged connection with IAF’s media partners
- Boost your organization’s awareness through IAF Plenary Programmes

**Financial Benefits**
- Get discounted rates on registration and exhibition fees
- Receive free access to more than 40,000 manuscripts through the IAF Paper Archive
- Book complimentary meeting facilities during IAF events
- Have privileged access to sponsorship opportunities at IAF events
- Benefit of an IAF special member rate to IAF Congress TV films

The IAF Secretariat is based in Paris and is at your disposal for all you need. Please, do not hesitate to contact us in case you wish to receive further information concerning the Federation or IAF membership.
Once reviewed, your application will be recommended by the IAF General Counsel.

Final approval by the General Assembly during the IAC.

INTERNATIONAL ASTRONAUTICAL FEDERATION

Connecting @ll Space People

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