Welcome Message

Welcome to the 64th International Astronautical Congress (IAC) in Beijing. The IAC, organised jointly with the IAF’s partner organisations the IAA and IISL, and this year with the Chinese Society of Astronautics (CSA), has become the world’s premier global space convention. This Pocket Programme is a mini guide to the Congress to help you get around and make the most of the week.

This year’s IAC has the theme “Promoting Space Development for the Benefit of Mankind”, and looks in detail at how to utilise space to overcome the challenges we face on earth. Since the first IAC 1950, the Congress has evolved to become an exciting programme of Technical Sessions, Plenary Events and Highlight Lectures. This Programme also contains details of the IAC’s Associated Events and Exhibition that runs throughout the week.

There will be the usual exciting programme of Students’ and Young Professionals’ events and the presentation of awards at the Opening and Closing Ceremonies, alongside extensive networking opportunities at the Global Networking Forum (GNF).

Thank you for joining us in Beijing and enjoy the Congress!
Congress Schedule & Events Day by Day

Pre-Congress Schedule

Friday, 20 September
- Young Professionals IPMC Workshop (see page 154 - Final Programme)
- UN-IAF workshop (see page 164 - Final Programme)

Saturday, 21 September
- UN-IAF workshop (see page 164 - Final Programme)

Sunday, 22 September
- Cross-Cultural Presentation Workshop (see page 168 - Final Programme)
- IAC Hosts Summit (see page 170 - Final Programme)
- Academy Day and Academy Dinner (see page 169 - Final Programme)
- Educators Professional Development Workshop (see page 166 - Final Programme)

Main Congress Schedule

Monday, 23 September

09:00 – 11:00 Opening Ceremony L4, Plenary Room A
11:00 – 12:00 Exhibition Opening Exhibition Hall E1
11:30 – 11:45 GNF – Opening
12:15 – 13:15 GNF – IAF’s (Association Aéronautique et Astronautique de France) Strategic Objective of Cooperating Internationally with Sister Societies
13:30 – 15:00 Plenary 1: Heads of Agencies L4, Plenary Room A

Start time: 15:15

Technical Sessions

A1.1 Behaviour, Performance and Psychosocial Issues in Space 301B
A2.1 Gravity and Fundamental Physics 210B
A3.1 Space Exploration Overview 311A
A4.1 Measurements 210A
B1.2 Space-Based Navigation Systems and Services 307A
B3.1 Overview Session (Present and Near-Term Human Space Flight Programmes) 308
B4.2 Small Space Science Missions 307B
B4-A-1 Flight Control Operations Virtual Forum 206A
C1.1 Attitude Dynamics (1) 306A
C2.1 Space Structures I - Development and Verification (Space Vehicles and Components) 306B
C3.1 Space-Based Solar Power Architectures – New Governmental and Commercial Concepts and Ventures 306A
C4.1 Propulsion System (1) 208A
D1.1 Innovative and Visionary Space Systems Concepts 308B
D2.1 Launch Vehicles in Service or in Development 311B
D3.1 Strategies & Architectures as the Framework for Future-Building Blocks in Space Exploration and Development 208B
E1.1 Ignition – Primary Space Education 302A
E1.1 Student Conference – Part 1 310B
E1.1 National Space Policies and Programmes, and Regional Cooperation 305
E4.1 Memories and Organizational Histories 301A

16:15 – 17:10 GNF – The needs of the Asian market in terms of satellites operators and launchers: How to respond.
18:15 – 19:30 Plenary 2: The Development and Prospects of China’s Space Activities
19:30 - 22:00 Welcome reception

Tuesday, 24 September
08:30 – 09:30 Plenary 3: Heads of Industry and the Next Generation Plenary - Next Destinations for Human Space Flight

Start time: 09:45
Technical Sessions

A2.2 Fluids and Materials Sciences 210B
A2.2A Moon Exploration – Part 1 311A
A2.2B Modeling and Risk Analysis 210A
B1.1 International Cooperation in Earth Observation Missions 301B
B2.2 Near-Earth and Interplanetary Communications 307A
B3.2 How Can We Best Apply Our Experience to Future Human Missions? 308
B4.1 14th UN/IAA Workshop on Small Satellite Programmes at the Service of Developing Countries 307B
C1.2 Attitude Dynamics (2) 302A
C2.2 Space Structures II - Development and Verification (Deployable and Dimensionally Stable Structures) 306A
C2.2 Wireless Power Transmission Technologies, Experiments and Demonstrations 304A
C4.2 Propulsion System (2) 208A
D1.2 Enabling Technologies for Space Systems 302B

Room L4, Lobby
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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>10:00 – 12:00</td>
<td>D2.2 Launch Services, Missions, Operations and Facilities</td>
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<tr>
<td></td>
<td>D4.1 Novel Concepts and Technologies</td>
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<td></td>
<td>E1.2 Lift Off – Secondary Space Education</td>
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<td>E2.2 Student Conference – Part 2</td>
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<td>E7.1 Nandco: Jawatulnya Keynote Lecture on Space Law &amp; 5th Young Scholars Session</td>
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<tr>
<td>13:30 – 14:30</td>
<td>Plenary 6: Women in Space – A 50-Year Success Story</td>
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<td>Room 309 A&amp;B</td>
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<tr>
<td>16:15 – 17:45</td>
<td>GNF – “Space at ILA Berlin Air Show 2014” (Reception)</td>
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<td>Room 309 A&amp;B</td>
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<tr>
<td>18:45 – 21:00</td>
<td>YP Networking Event – The Future for Human Exploration</td>
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<td>(see page 155 - Final Programme)</td>
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Wednesday, 25 September

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<tr>
<th>Time</th>
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<tr>
<td>08:30 – 09:30</td>
<td>Plenary 5: Space-borne Observations of Droughts, Desertification, Floods and their Impact on Water and Food Security</td>
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<td>Time</td>
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<tr>
<td>09:45</td>
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<td></td>
<td>Technical Sessions</td>
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<tr>
<td>A1.4</td>
<td>Radiation Fields, Effects and Risks in Human Space Missions</td>
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<tr>
<td>A2.4</td>
<td>Science Results from Ground Based Research</td>
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<td>A3.1A</td>
<td>Mars Exploration – Part 1</td>
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<td>B1.3</td>
<td>Earth Observation Sensors and Technology</td>
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<tr>
<td>B2.3</td>
<td>Advanced Technologies for Space Communications and Navigation</td>
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<td>B3.4-5</td>
<td>Sustainable Operations of Present and Future Space Stations - Joint Session of the Human Space Endeavours and Space Operations Symposium</td>
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<td>B3.4</td>
<td>Small Earth Observation Missions</td>
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<tr>
<td>C1.4</td>
<td>Guidance, Navigation and Control (2)</td>
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<tr>
<td>C2.4</td>
<td>Advanced Materials and Structures for High Temperature Applications</td>
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<td>C4.3</td>
<td>Propulsion Technology</td>
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<td>D2.4</td>
<td>Future Space Transportation Systems</td>
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<tr>
<td>D3.2</td>
<td>Systems and Infrastructures to Implement Future Building Blocks in Space Exploration and Development</td>
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<tr>
<td>D5.1</td>
<td>Insuring Quality and Safety in a Cost Constrained Environment: Which Trade Off?</td>
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<td>E1.4</td>
<td>In Orbit - Postgraduate Space Education</td>
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<td>E2.4</td>
<td>Educational Pico and Nano Satellites</td>
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<td>E3.3</td>
<td>Industrial Policies as Owners of the Space Economy</td>
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<td>E5.1</td>
<td>New architectural, Strategic, and Design Approaches to the Future of Human Space Flight</td>
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<td>Start time</td>
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<tr>
<td>10:00</td>
<td>GNF – Symposium on Space Medicine and People’s Health</td>
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<td>Technical Sessions</td>
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<td>E5.2</td>
<td>Moon, Mars and Beyond: Analogues, Habitability and Spin-Offs</td>
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<td>E6.1</td>
<td>Case Studies and Prizes in Commercial Space</td>
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<td>13:30</td>
<td>Poster Award Ceremony</td>
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<td>14:30 – 16:30</td>
<td>GNF – The Application and International Cooperation of Remote Sensing Satellites</td>
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<td>14:30 – 16:10</td>
<td>World Space Week Celebration – with speech by Buzz Aldrin in one of the speakers</td>
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<td>14:45</td>
<td>Start time</td>
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<td>Technical Sessions</td>
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<tr>
<td>A1.5</td>
<td>Astrobiology and Exploration</td>
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<td>A2.5</td>
<td>Facilities and Operations of Microgravity Experiments</td>
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<tr>
<td>A3.1B</td>
<td>Mars Exploration – Part 2</td>
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<tr>
<td>A4.1</td>
<td>SETI 1: SETI Science and Technology</td>
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<tr>
<td>A5.2</td>
<td>Human Mars Exploration</td>
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<tr>
<td>A6.3</td>
<td>Hypervelocity Impacts and Protection</td>
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<tr>
<td>B1.4</td>
<td>Earth Observation Data Management Systems</td>
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</tbody>
</table>
B3.5 Astronauts: Those Who Make It Happen
B4.7A Space Systems and Architectures Featuring Cross-Platform Compatibility
C1.5 Guidance, Navigation and Control (1)
C2.5 Smart Materials and Adaptive Structures
C4.4 Electric Propulsion
D1.4 Space Systems Architectures
D2.5 Future Space Transportation Systems Technologies
E1.5 Learning and Knowledge Development for a Globally Sophisticated Workforce
E3.4 Assuring a Safe, Secure and Sustainable Space Environment for Space Activities
E7.4 Legal Aspects of Space Debris Remediation
V.3-B2.8 Space Communications and Navigation Young Professionals Virtual Forum

16:30 – 18:00 GWN – Q&A with Sandy Magnus – Former NASA Shuttle and International Space Station Astronaut.

Start time: 16:45 Technical Session

17:45 – 18:45 Highlight Lecture 2: The Construction and Development of BeiDou Navigation Satellite System

Thursday, 26 September

08:30 – 09:30 Plenary 6: Space Solar Power – Global Progress & Global Opportunity

Start time: 09:45 Technical Session

12:45 – 21:00 YP Networking event – Future for Human Exploration (see page 155 – Final Programme)

16:30 – 21:00 YP Networking event – Future for Human Exploration (see page 155 – Final Programme)
D2.6 Future Space Transportation Systems Verification and In-Flight Experimentation 311B
D3.3 Novel Concepts and Technologies for Enable Future Building Blocks in Space Exploration and Development 208B
D5.2 Knowledge Management and Collaboration in Space Activities 206A
E1.6 Calling Planet Earth - Space Outreach to the General Public 302A
E1.5-E7.6 28th IAA/IISL Scientific-Legal Round Table “Space and the Polar Regions (Arctic and Antarctic)” (Invited Papers) 305
E4.2 Scientific and Technical Histories 301A
E4.4 Space as an Artistic Medium 303A

10:00 – 13:00 GNF – NEOs and Planetary Defense - Where Do We Stand?
Start time: 11:45
Technical Session
E5.6 Space Societies and Museums 300A

13:30 – 14:30 Plenary 7: The Role of International Innovation in Accelerating Future Human Space Exploration
Room 309 A&B

Start time: 11:45
Technical Session
A1.6 Life Support and EVA Systems 310B
A2.7 Microgravity Sciences - Onboard the International Space Station and Beyond - Part 2 210B
A3.5 Solar System Exploration 311A

A4.6 Space Debris Removal Concepts 210A
B1.5 Earth Observation Centers and Economic Benefits 301B
B2.5 Fixed and Broadcast Communications 307A
B4.6B Generic Technologies for NanoRisio Platforms 307B
B6.3 Mission Operations, Validation, Simulation and Training 305
C1.7 Mission Design, Operations & Optimisation (I) 306A
C2.7 Space Vehicles – Mechanical/Thermal/Fluidic Systems 306B
C4.6 New Missions Enabled by New Propulsion Technology and Systems 208A
D1.5 Lessons learned in Space Systems 302A
D2.7 Small Launchers: Concepts and Operations 311B
D4.6 Space Elevator Design and Impact 208A
D6.1 Commercial Space Flight Safety and Emerging Issues 308
E1.7 New Worlds - Innovative Space Education and Outreach 302A
E4.3 History of Chinese Contribution to Astronautics 301A
E5.5 Space Assets and Disaster Management 302A
V.2-B3.9 Human Space Endeavours Young Professionals Virtual Forum 208A

16:30 –18:00 GNF – Social media and outreach - How the public has fallen back in love with space.
17:45 - 18:45 Highlight Lecture 3: Top 10 Research Results from International Space Station – How Can We Limit it to so Few?
## Friday, 27 September

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Room</th>
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<tbody>
<tr>
<td>08:30 – 09:30</td>
<td>Late Breaking News</td>
<td>309 A&amp;B</td>
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<tr>
<td>09:45</td>
<td>Technical Sessions</td>
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<tr>
<td>A1.7</td>
<td>Biology in Space</td>
<td>310B</td>
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<tr>
<td>A3.2C</td>
<td>Moon Exploration – Part 3</td>
<td>311A</td>
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<tr>
<td>A3.4-02.8</td>
<td>Joint Session on Going To and Beyond the Earth-Moon System: Human Missions to Mars, Liberation Points and NEO’s</td>
<td>311B</td>
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<tr>
<td>A6.7</td>
<td>Operations in Space Debris Environment, Situational Awareness</td>
<td>311A</td>
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<tr>
<td>A7.2</td>
<td>Technology Needs (Part 2)</td>
<td>310B</td>
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<td>B1.6</td>
<td>Towards Implementation of GESS</td>
<td>310B</td>
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<tr>
<td>B2.6</td>
<td>Mobile Satellite Communications and Navigation Technology</td>
<td>310A</td>
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<tr>
<td>B3.7</td>
<td>New Technologies, Processes and Operating Modes Enabling Future Human Missions</td>
<td>308</td>
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<tr>
<td>B4.8</td>
<td>Hitchhiking to the Moon and Beyond</td>
<td>307B</td>
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<td>B6.1</td>
<td>Human Spaceflight Operations</td>
<td>305</td>
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<td>C3.8</td>
<td>Orbital Dynamics</td>
<td>306A</td>
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<td>C3.8</td>
<td>Specialised Technologies, Including Nanotechnology</td>
<td>306B</td>
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<tr>
<td>C4.7-C4.5</td>
<td>Joint Session on Nuclear Propulsion and Power</td>
<td>308B</td>
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<td>D4.4</td>
<td>Contribution of Space Activities to Solving Global Societal Challenges</td>
<td>308B</td>
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**10:00 – 11:30**

**GNF – Astronauts Outreach Event**

**12:30 – 14:00**

**GNF – Workshop on Space Policy and Law in Asia Pacific**
### Meeting Schedule

#### Saturday, 21 September

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<th>Time</th>
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<tr>
<td>08:00 – 18:00</td>
<td>ESA Bilaterals</td>
<td>205 B</td>
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<td>08:00 – 18:00</td>
<td>NASA Bilaterals</td>
<td>VIP 2-2</td>
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<td>09:00 – 10:30</td>
<td>IAA Board of trustees</td>
<td>205 A</td>
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<td>09:00 – 17:00</td>
<td>IAF-International Programme/project Management Committee (IPMC)</td>
<td>203 A</td>
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<td>09:00 – 11:00</td>
<td>IAA Study Group 3.17</td>
<td>206B</td>
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<td>10:00 – 13:00</td>
<td>IAA Committee on Space Debris</td>
<td>203A</td>
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<td>14:00 – 16:30</td>
<td>IAF Space Exploration Committee</td>
<td>207</td>
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<td>14:00 – 15:30</td>
<td>IPC Steering Group (part 1)</td>
<td>213 B</td>
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<tr>
<td>15:30 – 17:00</td>
<td>IAF Technical Activities Committee (TAC)</td>
<td>205 A</td>
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<tr>
<td>16:00 – 18:00</td>
<td>IAA Study Group 3.17</td>
<td>206B</td>
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### Post Congress Schedule

**Saturday, 28 September**

- Tsinghua University IAF-SUAC International Student Workshop ([see page 159 – Final Programme](#))
Sunday, 22 September

08:00 – 14:00 Cross-Cultural Presentation Workshop (CCPW) 205 A
08:00 – 18:00 NASA Bilaterals 305
08:00 – 11:00 IAF-Space Education and Outreach Committee (SEOC) 203A
09:00 – 16:00 International Meeting for Members of Parliaments VIP-2-2
10:00 – 12:00 IAF Finance Committee 207
11:00 – 12:30 IAF Working group on Technical Activities 202A
12:30 – 15:00 IAF-Administrations and Structures Committee 205 B
13:00 – 18:00 IAC Hosts Summit VIP-3 A&B
14:00 – 18:00 IAF-Astronautics Committee 213 B
14:00 – 18:00 IAF Bureau 207
14:00 – 15:00 P3S Rehearsal (next Generation + Industry ) 205 A
14:00 – 17:00 IAF-Space Propulsion Technical Committee 206 B
14:00 – 16:00 IAF-Space Transportation Committee 202 A
15:00 – 16:30 IAF-International Workshop Development Young Professional Programme Committee (WSYPP) 205 B
15:00 – 16:30 IAF-International Workshop Development Young Professional Programme Committee (WSYPP) 205 A
16:00 – 18:00 IAF-Space Safety Committee 202 A

Monday, 23 September

08:00 – 18:00 ESA Bilaterals VIP-4-2
08:00 – 18:00 NASA Bilaterals VIP-4-1
08:00 – 18:00 JAXA Bilaterals VIP-2-2
12:00 – 13:10 HoA Preparatory lunch 206 B
12:00 – 14:00 SGAC Advisory Board 207
13:00 – 14:00 IAF-Congress and Symposia Advisory Committee (CSAC) 213 B
13:00 – 15:00 IAF-Space System Committee 202 A
14:00 – 15:10 IAF Regional Group in Latin America and the Caribbean (GRIULAC) 203 A
14:00 – 16:00 IAA Cosmic Study 203 B
14:30 – 18:30 IAF Board Meeting 207
14:30 – 16:30 CNES Bilaterals 205B
15:00 – 18:15 IAF General Assembly 310

16:30 – 18:00 IAF-Subcommittee on the Global Earth Observation System of Systems (GEOSS) 205 B
17:00 – 18:00 IAF-Materials and Structures Committee 205 B
17:00 – 18:00 YSL, DSL and ISIL recipients 205 A
Tuesday, 24 September

08:00 – 11:00 COPUOS EG D Regulatory regimes and guidance for actors in the space arena 203 A
08:00 – 10:00 IAF-Congress and Symposium Advisory Committee (CSAC) 206 B
08:00 – 18:00 ESA Bilaterals VIP 4-2
08:00 – 12:00 JAXA Bilaterals 207
08:00 – 18:00 NASA Bilaterals VIP 4-1
08:30 – 9:30 CNES Bilaterals 203 B
08:00 – 11:00 IAF-Space Security Committee 213-B
08:30 – 11:00 DLR Bilaterals 205B
08:30 – 11:00 IAF-Industries Relations Committee 203 B
11:00 – 12:00 CNES Bilaterals 205 B
10:00 – 12:00 IAF-Honours and Awards Committee (IAC) 205A
10:00 – 13:00 IAF-Space Societies Committee 202 A

10:00 – 11:00 NASA Bilaterals 206 B
10:00 – 12:00 US Department of State Meeting VIP 2-2
11:00 – 12:00 CNES Bilaterals 205 B
11:00 – 14:00 COPUOS EG A Sustainable Space utilization supporting sustainable development on Earth 203 A
11:00 – 14:00 COPUOS EG B Space Debris, space operations and collaborative tools to support space situational awareness 203 B
12:00 – 13:15 IAF-Regional Groups Coordination Meeting 205 B
12:00 – 13:15 International Lunar Observatory Association (ILOA) Bilaterals 203 B
12:00 – 14:00 Plenary/Debate Rehearsal 206 B
12:00 – 15:00 SETI Committee 207
13:30 – 14:00 DLR Bilaterals VIP 2-2
13:30 – 15:10 CNES Bilaterals 205 B
14:00 – 15:00 Canadian Space Agency Meeting 202 A
14:00 – 16:00 IAF-Committee for Liaison with International Organisations and Developing Nations (CCLUDIN) 203A
14:00 – 16:00 IAF-Congress and Symposium Advisory Committee (CSAC) 213 B
14:00 – 16:00 IAF-Space University Administrative Committee (SUAC) 203 B
14:00 – 18:00 IAF-Space Operations Committee 205A
14:30 – 16:15 China / Germany Bilaterals VIP 2-2
15:00 – 16:30 IAC Earth Observation Plenary Event preparation meeting 206 B
Wednesday, 25 September

08:00 – 12:00 China/Netherlands Bilateral Meeting 205 A+B
08:00 – 14:00 COPUOS EG B Space Debris, space operations and collaborative tools to support space situational awareness 203 B
08:00 – 11:00 COPUOS EG D Regulatory regimes and guidance for actors in the space arena 203 A
08:00 – 10:00 IAF-Congress and Symposia Advisory Committee (CSAC) 213 B
08:00 – 18:00 ESA Bilaterals VIP 4-2
08:00 – 18:00 EDA Bilaterals 401
08:00 – 18:00 Inter-Agency Space Debris Coordination Committee (IADC) 213 B
08:00 – 18:00 NASA Bilaterals VIP 4-1
09:00 – 12:00 IAF-Space Education and Outreach Committee (SEOC) 207
09:45 – 11:00 IAF/ESA 213 B
10:00 – 16:30 Canadian Space Agency Meeting 202 A
10:00 – 12:00 IAF-Policy Advisory Committee (PAC) 213 B
10:00 – 11:00 NASA Bilaterals 206 B
11:00 – 14:00 COPUOS EG A Sustainable Space utilization supporting sustainable development on Earth 203 A
13:00 – 15:00 IAF-Regional Group in Africa 207
11:00 – 17:00 Space Medicine and Health Workshop 205 A-B
13:30 – 15:30 Student Activities Subcommittee VIP 2-2
14:00 – 15:00 IAF-Congress and Symposium Advisory Committee (CSAC) 213 B
14:00 – 15:00 IAF-Subcommittee on the Global Earth Observation System of Systems (GEOSS) 203 A
15:30 – 18:00 IAF-Congress and Symposia Advisory Committee (CSAC) 213 B
15:00 – 18:00 IAF-Subcommittee on the Global Earth Observation System of Systems (GEOSS) 203 A
15:00 – 18:00 ISEB HoE meeting 2 207
15:00 – 18:00 IESB HoE meeting 1 207
15:00 – 17:00 IAF Communications and Navigation Committee 203 A
16:00 – 18:00 CLR Bilaterals 213 B
16:00 – 19:00 Poster Competition Meeting 203 B
16:00 – 18:00 IAF-Space Economy Committee 203 A
16:30 – 18:00 GIAC Programme Committee Informal Meeting 205 B
16:30 – 18:00 IAF Study Group 3.16 206 B
15:00 – 18:00 IAF-Space Economy Committee 203 A
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15:00 – 18:00 IAF-Policy Advisory Committee (PAC) 213 B
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16:30 – 18:00 IAF Study Group 3.16 206 B
15:00 – 18:00 IAF-Space Economy Committee 203 A
15:00 – 18:00 IAF-Regional Group in Africa 207
11:00 – 17:00 Space Medicine and Health Workshop 205 A-B
13:30 – 15:30 Student Activities Subcommittee VIP 2-2
14:00 – 15:00 IAF-Subcommittee on the Global Earth Observation System of Systems (GEOSS) 203 A
15:30 – 18:00 IAF-Congress and Symposia Advisory Committee (CSAC) 213 B
15:00 – 18:00 IAF-Subcommittee on the Global Earth Observation System of Systems (GEOSS) 203 A
15:00 – 18:00 ISEB HoE meeting 2 207
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<td>IAF/IAA/IISL Advisory Committee on History Activities (ACHA)</td>
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<td>12:00 – 13:30</td>
<td>IPC Steering Group (part 2)</td>
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<td>14:00 – 16:00</td>
<td>DLR Bilaterals</td>
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<td>IAF-Entrepreneurship and Investment Committee</td>
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<td>14:00 – 16:00</td>
<td>IAF-Knowledge Management for Space Organisations (KMTC)</td>
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<td>15:00 – 17:00</td>
<td>IAF Asia-Pacific Regional Group</td>
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<td>17:00 – 19:00</td>
<td>IAF-Astrodynamic Committee</td>
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**Friday, 27 September**

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<td>ESA Bilaterals</td>
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<td>08:00 – 18:00</td>
<td>NASA Bilaterals</td>
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<td>09:00 – 13:00</td>
<td>IAF General Assembly</td>
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<td>13:00 – 14:00</td>
<td>IAF-Space Astronomy Committee</td>
<td>203 A</td>
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**Contacts and Opening Hours**

**IAF Secretariat Office**
Location: Room 211
20 – 27 September
08:00 – 18:00

**IAA Secretariat Office**
Location: Room 206A
20 – 27 September
08:00 – 18:00

**IISL Members’ Room**
Location: 407
23 – 27 September
08:00 – 18:00

**Registration and Information Desk**
Location: L1 Lobby
In order to register, please bring along your letter of confirmation, which entitles you to pick up your Congress documents.
21 – 27 September
08:00 – 18:00

**International Press Centre**
Location: VIP 3-2
Saturday, 21 September
13:00 – 20:00
Sunday, 22 September – Friday, 27 September
07:30 – 20:00
LOC Office
Location: Room 202B, 20 – 27 September
08:00 – 18:00

IAF Members’ Lounge
Location: GNF
Monday, 23 September
12:00 – 18:00
Tuesday, 24 – Friday, 27 September
10:00 – 14:00

Cyber Café:
Location: Hall 1 Lobby (in the exhibition)
Monday, 23 September
11:00 – 18:00
Tuesday, 24 – Friday, 27 September
10:00 – 14:00

Press Briefing
Location: VIP 3-2
Sunday, 22 September
18:15

Speakers’ Preparation Room
Location: Room: 209B
22 – 27 September
08:00 – 17:00

Exhibition Hall
Location: Hall 1
Monday, 23 September
12:00 – 18:00
Tuesday, 24 – Friday, 27 September
10:00 – 14:00

Congress Organiser
Consult Registration Desk, L1 Lobby

Beijing City Guide

Climate
September is one of the best months to visit Beijing. The average maximum temperature is 24°C in the day time, and the average minimum temperature is 11°C at night.

Credit Cards
Credit and debit cards can be used in ATMs (which are widespread) displaying the appropriate sign. Credit cards can also be used in many supermarkets, hotels department store and restaurants. When you withdraw money from an ATM, the amounts are converted and dispensed in local currency; however, there will be fees involved.

Currency
China’s official currency is the Chinese RenMinBi or RMB for short. The basic unit is the yuan (also known as "kuai"), which equals 10 jiao (or "mao"), which is then divided into 10 fen. Coin denominations are one, two and five Fengs, one, five Jiaos and one Yuan; the banknotes are one, five Jiaos and 1, 5, 10, 20, 50 and 100 Yuan. Currency can be exchanged at all local banks. Banks are open from 09:00 to 16:30 Monday to Sunday.

Medical Services
An emergency service center will be available near the meeting areas during the congress.

Press Briefing
Location: VIP 3-2
Sunday, 22 September
18:15

Speakers’ Preparation Room
Location: Room: 209B
22 – 27 September
08:00 – 17:00

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Medical Services
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Electricity
Most electrical outlets in China work on 220V AC at 50 cycles per second. Local outlets accept two flat plugs and three-pronged plugs that differ from those used in Europe, the UK and the USA. Foreign appliances may require an adapter that can be bought at supermarkets.

Time
Beijing is eight hours ahead of Greenwich Mean Time (GMT). Differences with other major cities are London: -7 hour; New York City: -12 hours; Sydney: +2 hours; Tokyo: +1 hour (Daylight Saving Time)

Shops, Pharmacies, Restaurants, Museums

Shops: Most department stores in Beijing have continuous opening hours and are generally open from 09:30 to 21:00 or 21:30 Monday to Sunday. Some supermarkets are open from 08:30 to 21:30 on Monday to Sunday.

Pharmacies: open from 09:00 to 21:00 Monday to Sunday, but some remain open at all times of the day or night.

Restaurants: open from 10:30 to 14:00 and 16:30 to 22:00.

Museums: most of the scenic spots in Beijing such as museums, galleries and archaeological sites sell entrance tickets from 08:00 till 16:00. Some are open much earlier like The Temple of Heaven, Beihai Park, Summer Palace.

Overview of Tours
China Academy of Launch Vehicle Technology (CALT)

Date: Wednesday, 25 September 2013
Time: 13:30
Departure: from CNCC
Duration of Site Visit: 14:30 – 16:00

As a subsidiary of the China Aerospace Science and Technology Corporation (CASC), CALT plays an important role in the three milestones of China aerospace industry: LM-1 launch vehicle launches the first man-made satellite of our country successfully which means the opening of China aerospace industry; LM-2F launch vehicle makes a success of launching spaceship 10 times continuously which realizes the Chinese aspiring dream LM-3A launch vehicle launches “Chang E” lunar exploration satellite with success which means the beginning of deep-space exploration.
China Centre for Resources Satellite Data and Application (CRESDA) was founded on October 5th, 1991. It is a scientific research and operational management institution. CRESDA has been dedicating to construct large-scale ground systems for remote-sensing satellites data acquiring, processing, archiving and distributing. With 22 years development, CRESDA has been constantly improving its capability in satellite ground system engineering construction, satellite operation management, satellite remote-sensing data procession, application technical research and development, and so on. CRESDA is advancing towards the construction of top-ranking international earth observation center.

Aisino Corporation is a listed IT company specializing in information safety. After first providing the China Tax Administration with an effective solution plan in 1994, Aisino has accumulated much experience and skill in completing large-scale and long-term projects. They also continued to innovate based on the needs of our clients, and increase our development and production abilities, extending our services to a broader range of fields, including finance, education, customs, public safety, and urban services. We currently provide more than 100 referenceable and executable system solution plans to almost five million industry and enterprise clients.
China Academy of Space Technology (CAST)

Date: Thursday, 26 September 2013
Time: 13:30
Departure: from CNCC
Duration of Site Visit: 14:30 – 16:00

China Academy of Space Technology (CAST), subordinated to China Aerospace Science and Technology Corporation (CASC), was established on February 20, 1968. Through over 40 years’ development, it has become the main development base for space technology and products in China and the most powerful backbone strength for China’s space endeavor. It is mainly engaged in various fields such as development and manufacturing of spacecraft, international exchange and cooperation in space technology, satellite applications, etc. By the end of September 2012, CAST had successfully developed, launched and operated 140 spacecrafts. During the 12th Five-Year Plan (2011-2015), CAST will undertake three projects out of the 16 national important special scientific and technological projects and will develop about 100 satellites.

China Satellite Communications Co. Ltd

Date: Thursday, 26 September 2013
Time: 13:30
Departure: from CNCC
Duration of Site Visit: 14:30 – 16:00

China Satellite Communications Co. Ltd. (China Satcom) is a core professional subsidiary of China Aerospace Science and Technology Corporation (CASC). Its main business covers the operation of satellites and the delivery of related services. With making satellite communications and broadcasting services accessible to more social groups as its mission, and a platform of integrated space/terrestrial satellite operation and service system, China Satcom is devoted to building itself into an integrated satellite service operator. China Satcom enjoys the richest satellite resources in China, well developed infrastructure and reliable measurement and control systems. The Company also has a professional team, outstanding system integration capacities providing 7X24 quality services.
Shanghai Academy of Spaceflight Technology (SAST)

Date: Saturday, 28 September 2013
Time: 08:30
Departure: from Shanghai Renji Hotel
Duration of Site Visit: 09:30 – 15:00

SAST (Shanghai Academy of Spaceflight Technology), founded in August 1961, is one of three systematic design academies of CASC (China Aerospace Science & Technology Corporation). The aerospace model products developed by SAST involve different fields of guided missile weapon, launch vehicle, application satellite, manned spaceship and deep space exploration, and the application products of space technology produced by it include PV, high-end auto parts, power lithium-ion batteries, compressed natural gas equipment for power transmission and distribution, electromechanical equipment manufacturing and new materials.

Exhibitors in alphabetical order

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<td>AEM - Mexican Space Agency B14</td>
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<td>CSL-University of Liege B54</td>
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### Complete Exhibitors Listing

#### Stand No: A03

**CNES French Space Agency**

**Contact:** Collot Philippe

2 place Maurice Quentin
75001 Paris
France

**Tel:** +33 1 44 76 77 47/+33 688 07 06 45
**Fax:** +33 1 44 76 78 40
**Email:** philippe.collot@cnes.fr
**Web:** www.cnes.fr/web/CNES-en/7114-home-cnes.php

CNES is the French government agency responsible for shaping and implementing France’s space policy. It is a pivotal player in Europe’s space programme, and a major source of initiatives and proposals that are aimed to maintain France and Europe's competitive edge. 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; Earth, environment and climate; space science and exploration; security and defence.

CNES intend to host an event located on its stand. It will be a “get together” with the occasion to meet with the French delegation (CNES engineers and Directors). It will be a typical French appetizer and will take place on Wednesday 25 6:30pm.

#### Stand No: A07

**SSC SPACE**

**Contact:** Annika Benson

PO. Box 4207
SE-171 04 Solna
Sweden

**Tel:** +46 8 627 62 00
**Fax:** +46 8 98 70 69
**Email:** annika.benson@sscspace.com
**Web:** www.sscspace.com

Small satellite buses (up to 200 kg), payload and components for small satellites (from 1 to 400 kg) are the core business activities of SSC SPACE. In this area we focus on high reliable and smart systems for LEO and deep space applications. We are specialized in attitude control components (reaction wheels, RIKS, GPS systems), Magnetocardiogram and complete AOCS subsystems, power subsystem components (PCU, PDU), solar structures and mechanisms (primary, S1, S2 and B1). Additionally to that we offer ground support equipment (EGSE, MGSE, OGSE), like transport containers or AOCS test beds. The scope of services comprises not only the design, manufacturing and integration of space hardware but also the complete verification and qualification of new space technologies and hardware (Scientific and Commercial), according to NASAS, ESA, AIAA standards, which also includes vibration, pyro shock and thermal vacuum testing. Since 1995 we are a reliable partner of the international space industry as well as different space agencies (e.g. NASA, ESA, AIAA, EU) and are certified by them for different technologies/insts/ices and are also certified according to DNV EN ISO 9001:2008 and EN ISO 14001.
The International Space University is a private non-profit institution, formally recognized as an institute of higher education in France by the French Ministry of Education. It specializes 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 Master’s program, ISU offers its students a unique Core Curriculum covering all disciplines related to space programs and enterprises, space science, space engineering, space policy and law, business and management, and space and society. Both programs also feature an intensive 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.

Stand No: A10
Air Liquide
Contact: France Hamber, Jean-Michel Camus, Dominique Leocq
2, rue de Clémencière, BP 15 – 38360 Sassenage, France
Tel: + 33 4 76 43 62 71 – F. Hamber
Fax: + 33 4 76 43 64 97 – D. Lecocq
Email: france.hamber@airliquide.com 
jean-michel.camus@airliquide.com  dominique.lecocq@airliquide.com

Air Liquide is a world leader in gases for industry, health and the environment, and a specialist in the field of air gas technologies, it has spent more than 50 years building a unique expertise in the area of space cryogenics. The Group has sought consistently to innovate and push back the frontiers of technology to meet institutional and industrial needs. Air Liquide has been involved in the European launcher Ariane, in significant international scientific projects, such as Planck, Herschel, International Space station experiments, Curiosity… Our core expertise: Cryogenic tanks for Ariane 5 (H2&O2) and helium pressurization; Development of cryogenic equipment for the future European launcher; Cryogenic launch pad infrastructures and ground support equipment for launchers and satellites; On-board cryogenics for satellites and the International Space Station (cryo coolers). On the occasion of this 64th International Astronautical Congress, Air Liquide will present its latest innovations in space such as the new technologies developed for future generations of the Ariane launcher and its latest cryo cooling solutions for orbital systems.

Stand No: A11
COM DEV Ltd.
Contact: George Galatsis
155 Sheldon Drive, 2, rue de Clémencière, BP 15 – 38360 Sassenage, France
Tel: +33 4 76 43 62 54 – F. Hamber
Fax: +33 4 76 43 66 41 – H. Camus
Email: jean-michel.camus@airliquide.com

COM DEV is an international company with diversified product lines focused exclusively on space, and our heritage is unmatched. With hardware on more than 900 satellites to date, our technologies are used in space for commercial communications, earth observation, remote sensing, space astronomy and search and rescue. We are world leaders in the design and production of space-qualified technologies ranging from passive microwave components and subsystems, and IF and digital electronics, optical systems, to complete microsatellite systems for specific missions. Our customers are the spacecraft manufacturers - and our core capability is space engineering. We regularly apply the expertise acquired through more than three decades in this industry to the development of new and leading-edge space technologies. Historically, COM DEV's core strength has been building microwave switching and filtering products - in particular large, integrated multiplexing and switching assemblies, and passive microwave components for the commercial satellite market. Over 80 percent of all commercial communications satellites ever launched had COM DEV technology on board. COM DEV employs over 1,300 people in four facilities located in Canada, the UK and California. We count all the major satellite prime contractors and many governments among our customers.

Stand No: A13
Kongsberg Satellite Services AS
Contact: Torre Pedersen
P .O. BOX 6180, 9291 Tromsø, Norway
Tel: +47 776 00250
Fax: +47 776 00299
Email: torre@ksat.no
Web: http://ksat.no

Kongsberg Satellite Services AS (KSSA) is a commercial Norwegian company and a world leading provider of satellite ground station services and satellite based maritime monitoring services. KSSA provides services such as: satellite tracking, command (ST&C), monitoring and early orbit phase support (EOEP), data acquisition, dissemination and archiving, hosting and operation of CPE, maritime monitoring, and Multi-mission Rapid Response. KSSA supports more than 80 satellites, including high resolution SAR and electro-optical satellites, and operates near 50 antennas. KSSA operates and markets a truly global cost-effective mult-mission Ground Station Network of both polar and mid-latitude stations.
The three polar ground stations are located in Tromsø at 69° N, Svalbard Satellite Station (SvalSat) at 78° N and the Antarctic station (TrollStat) at 72° S. The SvalSat is the only commercial ground stations in the world able to provide all-orbit support (14 passes per day), and KSAT is the only company that can provide access to satellites from both the Arctic and the Antarctic. All KSAT ground stations are operated as one single interconnected service. KSAT’s antennas are controlled from Tromsø Network Operations Centre (TNOC). TNOC is the single point of contact for KSAT ground station services. Operations and EO are executed on a 24/7/365 basis. The head office of KSAT is located in Tromsø, Northern Norway. KSAT is owned 50% by KONGSBERG and 50% by Norwegian Space Centre Properties, a company 100% owned by the Norwegian ministry of Trade and Industry, administered by Norks Romsenter (Norwegian Space Centre).

Czech Space Office is a non-profit organization created in 2003 to support development of the national space research and development infrastructure. To fulfill our mission, we provide professional administrative, consultation and networking support to research and industry actors interested in international space programs, and industrial and academic organizations that are interested in various space related fields and analyze opportunities for research and academia in international programs. We keep a database of the Czech industrial and academic organizations and their space projects. We promote education and outreach activities in space science and technology and support student projects. We also serve as an information point for general public and prepare promo materials about Czech space activities, their results and benefits. We organize conferences, seminars and workshops for professionals from various fields, as well as educational and public and media hearings on space-related topics. We promote Czech companies in space exhibitions, namely every year during the International Astronautical Congress. We have been heavily involved in the development of our country’s relationship with the European Space Agency from its beginning. After the Czech Republic became an ESA member in 2008, CSO negotiated various projects and respective engagements of the Czech companies in the European space programs.

Event:
Czech Space Office, booth A15, Thursday 26 September, 16:00, a happy hour with traditional Czech cuisine and drinks.

The Integrated DTI Aerospace Programme (IDAP) was created through two of the South African DTI’s initiatives, the Aerospace Industry Support Initiative (AISI), and the National Aerospace Center (NAC). IDAP is the vehicle to facilitate the DTI’s aerospace sector industrialisation goals to achieve the South African Government’s growth targets. These include improved competitiveness, development and commercialisation of new technologies, promotion of domestic and foreign investment, small, medium and micro-enterprise (SMME) and broad-based black economic empowerment development and promotion, industry-focused skills development and associated R&D, and promotion of exports. IDAP facilitates the creation of linkages and strategic partnerships with the local aerospace sector as well as with global stakeholders to acquire skills and technologies. These alliances allow for the improvement of existing technologies whilst simultaneously mastering the production and process technologies needed to build new sustainable platforms.

Event:
We are planning to have a cocktail as part of our event; Wednesday, the 25th at 17:00
Space Commercial Services was founded and is directed by experienced professionals who have successfully started and managed satellite programmes. The team was joined by regulatory, geospatial, telecoms and socioeconomic development specialists to offer a complete service package in support of small satellite programmes and other ICT infrastructure. Companies in the group act in the following sectors: the roll out of community-based situational awareness system, support for census projects in Africa.

Denel Dynamics is part of the Denel Group, South Africa’s largest manufacturer of defence equipment. A leader in advanced systems engineering technology, Denel Dynamics’ core business covers tactical missiles, precision-guided weapons, unmanned aerial vehicle systems (UAVS), integrated air defence and related technology solutions. The business is situated in Irene, near Pretoria and employs approximately 800 people (64% of its employees are technically highly qualified and world-class experts in their specialised fields). Denel Dynamics has successfully developed, produced, integrated and supported electronic and mechanical engineering systems since 1963, establishing a sound technology base and infrastructure along the way. In terms of operations and execution, Denel Dynamics has reached a stage of maturity that international business consultants CapGemini consider to be ‘reaching the level of international best practice, even best in class in some areas’. The organisation’s wide range of products, world-class facilities, excellent customer support record and a formalised quality control system (Denel Dynamics is ISO-listed), add up to an impressive capability. The product range includes: Guided missile systems; Stand-off weapon systems; Unmanned aerial vehicle systems (UAVS); Integrated Air Defence and Related Technology Solutions.
Reutech Radar Systems is a Reunert Limited subsidiary. The company's products are incorporated into world-class systems. The company is an innovative product supplier and systems integrator, providing radar and radar-related system solutions in the ground and naval environments. It is involved in the supply of search and tracking radar systems to the South African National Defence Force as well as into specific niche areas in the international Ground and Naval Systems market. Products include: 3D Surveillance Systems; 2D Search & Surveillance Systems; Tracking Systems; Sub-Systems & Technology; System Integration.

Stand No: A24
South African Council for Space Affairs (SACSA)

Contact:
Abraham Ramakluvhathi
P. O. Box X84,
Pretoria,
0001

Tel: +27 12 294 5604
Fax: +27 12 294 6604
Email: RRamukhuvhathi@thedti.gov.za
Web: http://www.sacsa.gov.za/

SACSA is a statutory body under the Authority of the Minister of Trade and Industry, which is established in terms of Space Affairs Act No 84 of 1993, as amended in 1995. To create and maintain a regulatory and policy environment that enhances South African domestic and international space activities for ensuring the safety, reliability and sustainability of South African activities.

Stand No: A25
LLC SPF "Dneprotechservice"

Contact:
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21, Simferopolskaya Str.,
Office 615
Ukraine

Tel: +38 056 770 49 17
Fax: +38 056 770 49 66
Email: kuznetsov@dts.dp.ua
Web: www.DLR.de

LLC SPF "Dneprotechservice" is the managing company of a number of machine-building enterprises of Ukraine, focusing on four core activities: heavy engineering, underground infrastructure, space-rockets hardware, prototyping and technology development, followed by the organization of production and sales.

Among the main production assets of Dneprotechservice are: RSC "Dnepropolyarnaya" which produces the ground support equipment of technical and launching plants for Astroplastic rocket testing; RSC "Ukraine Scientific-research Institute of Mechanical Engineering" (technology and equipment for manufacture of aerospace equipment); SPP "NIE" (technology and manufacturing of hightensile-fibers and structures); RSC "Joint Engineering Company" (technology and equipment manufacturing of non-destructive testing). Enterprises of the group work mainly on development of ground equipment for advanced space defense systems, technologies and separate parts of launch vehicles. Dneprotechservice is involved in the creation of prototypes of equipment for space missions with the help of a technology and a prototype model of a high-performance concentrator solar cell intended for space purposes on the basis of short linear Fresnel lenses, volume carbon-fiber, multistage gallium-arsenide solar cells. Work is carried out on development and production of experimental prototypes of composite materials (CM) to attenuate the dose effects of ionizing radiation in outer space from onboard avionics of space crafts. LLC SPF "Dneprotechservice" is a member of an international project on creation of mini-satellite of CubSat format – QB50. Since 2012 LLC SPF "Dneprotechservice" is licensed by the State Space Agency of Ukraine for the development, manufacture, components of spacecraft vehicles, and components of ground control for spacecraft.

Stand No: A27
Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR)

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Klaus Gering
51170 Cologne,
Germany

Tel: +49 2203 601 2116
Fax: +49 2203 601 3249
Email: Klaus.Gering@dlr.de
Web: www.DLR.de

DLR is the national aeronautics and space research centre of the Federal Republic of Germany. Its extensive research and development work in aeronautics, space, energy, transport and security is integrated into national and international cooperative ventures. In addition to its own research, as Germany's space agency, DLR has been given responsibility by the federal government for the planning and implementation of the German space programme. DLR is also the umbrella organisation for the nation's largest project execution organisation DLR e.V. (approximately 7000 employees at 14 locations in Germany, College (headquarters), Augsburg, Bremen, Bochum, Bremen, Braunschweig, Cologne, Hamburg, Hannover, Juelich, Lampoldshausen, Munich, Oberpfaffenhofen, Stuttgart, Trier, and Weilheim. DLR has also offices in Brussels, Paris, Tokyo and Washington D.C.).

Event:
We will host a small reception at our booth on Wednesday 25th from 16:00 to 17:30
The Bremen Invest office offers a single point of contact for international companies, entrepreneurs and institutions to find growth opportunities in Bremen, Germany and throughout Europe. If you are a company or individual looking for business expansion in Germany, or anywhere in Europe, let Bremen Invest help. Bremen is the Key to Germany and the rest of Europe. Besides our head office you will find Bremen Invest offices in Atlanta (USA), Istanbul (Turkey) and Shanghai (China).

Stand No: A30I

The British Interplanetary Society is an international society devoted to the promotion and development of astronautics. Its members include both professionals working on space and related technical fields, and those interested in keeping in touch with ideas and developments in astronautics. Founded in 1933 by a group of spaceflight enthusiasts, it is now one of the longest established in its field with a reputation for being at the forefront of thinking about the exploration and utilization of Outer Space. It published a peer-reviewed technical Journal (JBIS), a monthly general-interest magazine (Spaceflight), an electronic newsletter (Odyssey) and a journal devoted to history papers (Space Chronicle), as well as promoting astronautics and space developments through meetings, symposia, lecture, books, visits and exhibitions. One of its earliest projects (before 1939) was to look at a realistic engineering design of a vehicle to reach the Moon. Subsequently it has provided pioneering studies on communications satellites, satellite launches, the use of space for Earth observation and astronomy, nuclear power in space, planetary exploration and SETI. It was a founder member of the International Astronautical Federation in 1950 and has held four congresses, the most recent in Glasgow 2008.

Stand No: A30I

Commercial Space Technologies Ltd.

Since its foundation in 1983, Commercial Space Technologies Ltd. (CST) has retained the highest quality of management and consultancy services to help its partners and customers maintain a leading edge. This includes advice on technical problems in the insurance sector. CST’s capabilities involve commerce, marketing, and trading technical equipment; management, representation and logistics; consultancy, space technologies and planning; resource prospecting by remote sensing; launcher services-brokering and launch services provision. CST has a proud record of launch solution brokerage which includes many firsts in the industry. The 30th satellite, ADS-1B, was brokered and managed by CST through to a successful launch on July 22nd 2012 onboard a Soyuz Fregat from Baikonur. The latest campaign will be of the UK government funded projects UKube-1 and TechDemoSat-1, together with the Com Dev satellite M3MSat.

Stand No: A30I

QinetiQ Space

QinetiQ Space has activities in the UK and Belgium, and has over 30 years of experience in the industry. We offer small satellites, space subsystems and equipment, including advanced electric propulsion, on-board/payload computers, Proximity-1 radio transceivers and scientific instruments. In addition we provide downstream services such as satellite operations. As part of the wider QinetiQ group our business has access to an extensive technology base and know-how.

Stand No: A30I

QinetiQ Space

54 55
Reaction Engines Ltd ('REL') is a privately held company located in the United Kingdom and was formed in 1989 to develop the technologies needed for an advanced combined cycle air-breathing rocket engine class called SABRE that will enable aircraft to operate easily at speeds of up to five times the speed of sound or fly directly into Earth orbit. We have achieved a breakthrough in aerospace engine technology by developing ultra-lightweight heat exchangers 100 times lighter than existing technologies that allow the cooling of very hot airstreams from over 1,000 °C to minus 150°C in less than 1/100th of a second. Reaction Engines' technology has undergone extensive independent technical assessments, undertaken by the European Space Agency at the request of the UK Government, which have confirmed the viability of the engine technology and its vehicle applications. This integrated air-breathing and rocket propulsion technology enables the following vehicle applications: Mach 5 high altitude cruise: Fly anywhere in the world in 4 hours; Efficient sub-sonic and hypersonic cruise modes. Low-cost reusable space access: Aircraft-like access to space; Operates from runway to orbit and back; Order of magnitude reduction in cost vs. existing technology; 400 x improved reliability; Responsive access to space.

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: development of technologies for power engineering including renewable energy sources; creation of some transport systems; creation of agricultural machinery for small communities.

Established on July 1, 1999, China Aerospace Science and Technology Corporation (CASC) is a large high-technology enterprise. As a leading force in China’s aerospace industry, CASC is mainly engaged in research, manufacture, test and launch of rockets, man-made satellites, manned spaceships, lunar and deep space explorers, and strategic and tactical missile systems. CASC focuses on the development in such areas as satellite applications, information technology, new materials, new energy, space technology applications, special vehicles and auto parts, and space biology. CASC has made outstanding contributions to the national security, scientific and technical progress and socio-economic development.

China Aerospace Science & Industry CORP.

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China Aerospace Science & Technology Corporation

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China's space science satellite missions. The center also takes a leading role in fields such as space engineering technology, space physics, space environment and microwave remote sensing. There are about 650 employees at NSSC by the end of August, 2012, 280 of whom are associate professors and professors.

The National Space Science Center (NSSC) is the key institute in space science in China. It is responsible for planning, selecting, developing, and managing the operation of China’s space science satellite missions. The center also takes a leading role in fields such as space engineering technology, space physics, space environment and microwave remote sensing. There are about 650 employees at NSSC by the end of August, 2012, 280 of whom are associate professors and professors.

In September 1992, Chinese government made a decision to implement the manned space program and prescribed the “Three-step Strategy” of development. The first step is to launch a manned spaceship, set up primarily integrated experimental manned spacecraft engineering, and carry out space application experiments. The second step is to make technology breakthroughs in Extravehicular Activities (EVA) as well as space rendezvous and docking of manned spaceships and spacecrafts, and launch a space lab. The third step is to establish a space station, and provide a solution for space application of larger scale with man-tending on a long-term basis.

China had received great social and economic benefits. CASIC has made splendid achievements one after another in the national social and economic development. CASIC devotes itself to the development road of civilian science and technology, and is its backbone industries and build a complete system for developing, researching and manufacturing technologies. Its products cover most sectors which features Chinese characteristics, and develops a serial of products in information industry and equipment manufacturing. The anti-counterfeiting tax controlled systems, Olympic safety ensuring system, simulative system for the South-to-North Water Transfer Project, and emergency and rescue equipment developed by CASIC have generated great social and economic benefits.

Established in 1991, Romanian Space Agency (ROSA) became an independent, contract-financed public institution in 1995, under the authority of the Romanian Ministry of Education, Research, Youth and Sports. ROSA’s mission is to promote space development, coordinate the national space research and applications programmes, and, as a government representative, to implement, develop and conduct the national space policy. ROSA is devoted to integrate and develop the national space assets and capabilities in the national and international market, providing the society with results to users and generating physical and human infrastructure-capacity building. ROSA is authorized to develop specific project-oriented research through its own centre and ensures the coordination of such activities with the Romanian space stakeholders.

A33 China Manned Space Engineering

China

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A35 Romanian Space Agency (ROSA)

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Stand No: A35

European countries.

Stand No: A36

Barcelona Moon Team

Spain

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The Barcelona Moon Team (BMT) is a multidisciplinary joint venture bringing together entrepreneurial, industrial and academic capabilities representing the only Spanish based team at the GLAR. Among its objectives is to take the leadership in an ambitious space project. This important project elevates the Spanish aerospace sector to a leadership position in all the aspects related with the management and execution of a highly complex space mission. Thanks to this leadership position the national industry can play a key role as a main contractor using its demonstrated experience and capabilities, meaning it will win contracts for our companies in the future. And (2) to foster the scientific and technical vocations and to retain talent, thanks to an extensive communications program with the aim to stimulate the participation of the general public in the event; in our view hand scientists and technical careers will be encouraged among the youth, developing specialised knowledge workers for the future. In the other hand the attraction of international talent will bring new professionals and researchers from abroad, stopping the exodus of professionals and young graduates and doctors to other countries.

Stand No: A37

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The International Journal of Digital Earth (IJDE) is the academic journal of the International Society for Digital Earth, and jointly published by the Taylor & Francis Group. The IJDE was launched in March 2008, and accepted for coverage in the Science Citation Index Expanded (SCI-E) in August 2009. The ISDE Secretariat and the IJDE Editorial Office are hosted by the Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences.
The Canadian Aeronautics and Space Institute (CASI) is a non-profit professional scientific and technical organization 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 aerospace professionals 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.

Stand No: B07
ICE - Italian Trade Commission
Contact: Stefano Giallorenzi
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The ICE Italian Trade Promotion Agency is the government organisation which promotes the internationalisation of the Italian companies, in line with the strategies of the Ministry for Economic Development. ICE provides information, support and advice to Italian and foreign companies. In addition to its Rome headquarters, ICE operates worldwide from a large network of Trade Promotion Offices linked to Italian embassies and consulates and working closely with local authorities and businesses. ICE provides a wide range of services overseas helping Italian and foreign businesses to connect with each other: identification of possible business partners; bilateral trade meetings with Italian companies; trade delegation initiatives; Italian participation in local fairs and exhibitions; and seminars with Italian experts.

Stand No: B07
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Planetek Italia s.r.l. is an Italian SME with a sound experience in the definition and implementation of Software for Space and Ground Systems for Earth Observation and Space Exploration missions. Its knowledg in Geoinformation and space sector makes the company one of the main designer, developer and provider of real-time systems, on board processing software for the space segment, radar and optical data processing for the ground segment, mission planning and performance monitoring systems.

Stand No: B07
TOSCANA SPARDO
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The not-for-profit association ToscanaSpazio (www.toscanaspazio.it) was established in December 2011 with the mission to create a wide network of companies and research institutions throughout Tuscany able to guide, promote and increase the value of cultural, training and research activities, share and develop the knowledge of its members, thus keeping the valuable technical, scientific and business know-how in the Aerospace sector within Tuscany; promote the development and growth of excellence within the sectors in Tuscany, enhance the complementary nature of groups and create synergies, encourage participation of members and affiliates in public and private funding instruments. In June 2013 ToscanaSpazio has 31 Full Members (21 SMEs, 6 Research organizations and 4 Large Industries) and 2 Affiliates. ToscanaSpazio comprises the 3 Universities in Tuscany (Florence, Pisa, Siena), the National University Consortium for Telecomcommunications (CNR-ISTI), the Institute of Science and Technology for Information, the National Institute of the Italian National Council of Research (CNR-ISTI). ToscanaSpazio organization works on almost all the most important fields in the aerospace sector, including Telecommunication and Navigation, Space and Earth observation, Orion and equipment, System integration in space and aeronautics, Microwave and radiofrequency systems, Production, testing, and maintenance, Mechanical Components, Electrical Power Supplies, Space Life Sciences, Aeronautical design, Propulsion/ Motors, Special materials and Structures, Space transporters, Operational bases.

Stand No: B07
DTM
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DTM since 1994 offers cost effective solutions in the design, manufacture, qualification and testing of mechanical systems for aerospace, biomedical and automotive fields. For aerospace DTM developed several components and structures for the International Space Station, sounding rockets, satellites, launchers and space re-entry vehicles. DTM design capabilities include 3D CAD drafting, structural analysis, thermal analysis and fluid dynamic analysis. DTM is specialised in the design, manufacture and testing of composite mechanical systems: an autoclave, and testing tools are available to cope with composite technologies from conception to qualification. Laboratories facilities include, among many others, machining tools, digital acquisition systems, testing equipment for quasi-static and dynamic tests, thermal vacuum chamber and ISO5 clean room. DTM know-how allowed to design, manufacture and qualify some of the high purity high pressure gas delivery systems for ISS (Astrium Prime), to qualify the Interstage 2/3 of Vega (RHI Prime) and to realise the ISS Composite Structures Component (ISS-CSC) Prime. DTM quality management system is certified according to the ISO 9001 aerospace standard. Lab安全系数room certified according to ISO 14444. DTM know-how allowed to design, manufacture and qualify some of the high purity high pressure gas delivery systems for ISS (Astrium Prime), to qualify the Interstage 2/3 of Vega (RHI Prime) and to realise the ISS Composite Structures Component (ISS-CSC) Prime. DTM quality management system is certified according to the ISO 9001 aerospace standard. DTM know-how allowed to design, manufacture and qualify some of the high purity high pressure gas delivery systems for ISS (Astrium Prime), to qualify the Interstage 2/3 of Vega (RHI Prime) and to realise the ISS Composite Structures Component (ISS-CSC) Prime. DTM quality management system is certified according to the ISO 9001 aerospace standard. For more details please refer to DTM’s web site www.dtm.it.

Stand No: B07
SITAEL S.p.A.

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Stand No: B07
Fondazione Istituto Italiano Di Tecnologia

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The Istituto Italiano Di Tecnologia is a private law Foundation with the aim of promoting excellence in basic and applied research in the following platforms: Robotics, Energy, Environment Health Safety, Computing, Neuroscience, Smart Materials, Diagnostic Drug Discovery and Development. Genoa's headquarters is supported by 9 research centers located throughout Italy.

Stand No: B07
Associazione delle Imprese per le Attività Spaziali (AIPAS)

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AIPAS (Italian Space SMEs Association) was created in 1996 with the objective to serve the needs of Small and Medium sized companies operating in the space sector. AIPAS is a Non-Profit Association and aims at: promoting in the various national and international centres the general interests of Space SMEs; tackling the fundamental issues of the Aerospace market by implementing initiatives, monitoring and observing activities of the sector; informing and assisting Associate Members by promoting their activities coordination and their unity spirit; promoting the coordinated participation of Associate Members at most important national and international events of space sector; joining other national and international Associations or Agencies for the benefit of its Associate Members; facilitating the encounter and the collaboration between SMEs and Large Companies; making and encouraging research activities relative to space sector also with conferences and publications.
AIPAS Associate Members are both upstream and downstream the space value chain. Many of AIPAS SMEs have a long-time interest in ESA and EU programs, as subcontractors but also as Prime Contractors of complex activities, in coordination of several partners (including large firms). AIPAS is the promoter and a founding member of SME4SPACE, the Panel of the European Space SME Associations (www.sm4space.org). AIPAS is a member of ARCA (Armed Forces Communications & Electronic Association) - Chapter of Rome.

Stand No: B11  
Canadian Space Agency  

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Since its creation in 1989, the Canadian Space Agency has been driving Canada’s use and exploration of space; developing space assets, applications and services; and enabling space capacity, while meeting the nation’s strategic priorities and growing need for scientific knowledge, innovation and information.

Stand No: B13  
Japan Aerospace Exploration Agency (JAXA)  

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Web: www.jaxa.jp

On October 1, JAXA—the only public aerospace R&D organization in Japan—will enter its 10th year. Amid the nations collaborating space development, the role and expectations for Japan are constantly on the increase.

Under the new JAXA law enacted last June and the new Basic Plan for Space Policy re-evaluated in January, JAXA is expected to play a greater role than ever before as a core implementation organization to technologically support overall government space development and utilizations, including safety and security areas, disaster preparations, and industrial development. By making the most of its world-leading technologies, JAXA has contributed to the realization of life and comfortable society and the search for unknown terrains. JAXA is involved in a variety of fields, and JAXA’s capabilities are at a variety of missions ranging from earth observation to planetary exploration, including the asteroid explorer HAYABUSA-2. JAXA also has a long-time interest in Earth Observation, including the World Environment Observation System (W-Earth) and the Vehicle ECO-EFFECTOR, which carry materials indispensable for manned space activities from the ground to the International Space Station (ISS). JAXA is involved in a variety of fields, and JAXA’s capabilities are at a variety of missions ranging from earth observation to planetary exploration, including the asteroid explorer HAYABUSA-2. JAXA also has a long-time interest in Earth Observation, including the World Environment Observation System (W-Earth) and the Vehicle ECO-EFFECTOR, which carry materials indispensable for manned space activities from the ground to the International Space Station (ISS). JAXA is involved in a variety of fields, and JAXA’s capabilities are at a variety of missions ranging from earth observation to planetary exploration, including the asteroid explorer HAYABUSA-2. JAXA also has a long-time interest in Earth Observation, including the World Environment Observation System (W-Earth) and the Vehicle ECO-EFFECTOR, which carry materials indispensable for manned space activities from the ground to the International Space Station (ISS). JAXA is involved in a variety of fields, and JAXA’s capabilities are at a variety of missions ranging from earth observation to planetary exploration, including the asteroid explorer HAYABUSA-2. JAXA also has a long-time interest in Earth Observation, including the World Environment Observation System (W-Earth) and the Vehicle ECO-EFFECTOR, which carry materials indispensable for manned space activities from the ground to the International Space Station (ISS). JAXA is involved in a variety of fields, and JAXA’s capabilities are at a variety of missions ranging from earth observation to planetary exploration, including the asteroid explorer HAYABUSA-2.

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Space Generation Advisory Council (SGAC)

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Space Generation Advisory Council is a non-governmental organization and network which aims to represent university students and young space professionals to the United Nations, space agencies, industry and academia. It was created at the UNISPACE III, in 1999. SGAC organizes two major annual events: the Space Generation Congress and the Space Generation Fusion Forum. It has permanent observer status at the UNCOPUOS and has an active role in giving recommendations, and writing papers in seven project groups. Education and outreach is the main objective. More info: www.spacegeneration.org

Event
The New Gen Reception at the SGAC Booth (#B15) on the Wednesday 25th September from 4pm to 6pm. A brief explanation: It has become a special tradition for SGAC to hold a reception during the IAC. This year sponsored by the Space Foundation, please stop by the booth to network, and learn more about SGAC and the upcoming Fusion Forum at the 30th Space Symposium taking place in May 2014. Don’t miss the opportunity to reunite with old friends and make new acquaintances at this informal gathering of young space professionals and SGAC supporters. Bring your colleagues along – we look forward to seeing you! Food & drinks will be served. SGAC is also organising an event at the GNF, but I believe this is something different and we are already in touch with Giulia. Felipe Arevalo, in CC, is this year’s SGAC Booth Manager, so he might be able to give you further details if you need anything else.

Stand No: B16
Specktrum & T4Science

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SpectraTime (SpT) and T4Science (T4S) are space and ground clocks manufacturers of Rubidium Atomic Frequency Standard (RAFS) and Active & Passive Hydrogen Maser (HM) for various navigation systems (European, Chinese and Indian) and other programs. From Dec. 2005 to the beginning of 2012, both clock technologies have years of flight heritage through four Galileo and 11 Beidou satellites. Almost 90 SpT RAFS flight units and 25 Passive HM Packages Flight units have been manufactured and characterized. As for ground application, more than 17 T4S Active HM’s are involved in different ground segment workshops, and one passive HM is in progress in the frame of a development program.

Specified is the Association of Space companies in The Netherlands, rebranded from NISO in 2009. The objective of Spaced is to strengthen the position of its members in the international space market. Members cover Industry, SMEs, research institutes and universities, active in both the upstream and the downstream space markets. Through the Netherlands Space Office, Spaced represents its members in communication with the Dutch Government, in creating a well aligned strategy for space in The Netherlands, and in realization of this strategy.

Please visit www.spaced.nl for more information.

Participants of the Holland pavilion invite all attendees to come by and meet the representatives of the Netherlands space community.

Participating organizations are: ASTRON, Dutch Space, ISS National Aerospace Laboratory - NLR, Netherlands Space Office, Systematic, CNES, TNO, TRJPS, TU Delft – Aerospace Engineering and University of Twente.
Stand No: B21
SEAS Information Technology Co. Ltd.

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SEAS Information Technology Information Technology Ltd., is a high-technology enterprise under the Institute of Electronics of Chinese Academy of Sciences, combining the Research & Development, Design, Production and Sales of Electronics Equipment and Vacuum Tubes. As the industrialization and promotion platform of the Institute of Electronics, SEAS undertakes the research and development of the electronics equipment and satellite application system of space use electronic equipment, airborne electronic equipment, satellite ground station, radar system and other aerospace product models. Relying on the Institute of Electronics' strength on cutting edge technology and research talents, SEAS successfully applies the programmable logic circuit chip—FPGA, space TWT, aviation traveling wave tube, Mini SAR, in ocean, weather forecasting and other civil and military industry. It also applies a power amplifier, low noise amplifier, frequency spectrum source, high speed data acquisition card, high speed ADC, SAR target memory card, inverter, demodulator, SAR target signal simulator, satellite measurement and control and the digital baseband signal test system, developed by SEAS's Research & Development team, which have been successfully applied in aerospace remote sensing, mapping, simulation test and other fields.

Stand No: B30
Agenzia Spaziale Italiana (ASI)

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The Italian Space Agency was founded in 1988. Its purpose was to coordinate all of Italy’s efforts and investments in the space sector that had begun in the 1960s. Within twenty years’ time, ASI became one of the most significant players in the world in space science, satellite technologies and the development of mobile systems for exploring the Universe.

Stand No: B35
Asia Pacific Space Cooperation Organisation (APSCO)

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The Asia-Pacific Space Cooperation Organization (APSCO) is an inter-governmental organization with full international juridical personality. The Convention of APSCO was signed by nine countries in Beijing, China during the years of 2005-2006. APSCO starts its formal operation at its Headquarters in Beijing since December 2008, and has granted its permanent observer status to the Committee on Peaceful Uses of Outer Space of United Nations in 2009. The main objective of APSCO is to promote the peaceful uses of outer space in Asia-Pacific Region, and to carry out the cooperation in the fields of space science, space technology and space applications among Member States and regional countries. Currently, APSCO has eight Member States namely Bangladesh, China, Iran, Mongolia, Pakistan, Peru, Thailand and Turkey. APSCO has its Secretariat in Beijing. APSCO has a scope of cooperation covering space science, technologies and related applications; providing them with assistance in R&D, applications and training; improving their space capabilities; and promoting economic and social development for common prosperity of all the regions in the Asia-Pacific Region.
In 1982, the Thailand Ground Receiving Station was set up as first of its kind in Southeast Asia. Data are received from satellites such as LANDSAT, SPOT, NOAA, ERS and MOS.

In 1993, the GIS Coordinating and Promotion Section was founded under the Information Center of Ministry of Science and Technology (MOST) in order to promote the use of GIS technology and to coordinate among users on attempt to set up GIS standards and a GIS Index Database. In order to enhance the utilization of remote sensing and GIS, the Geo-Information and Space Technology Development Agency, 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 Thai-Ground Observation Satellite (THOS) is Thailand’s first operational Earth observation satellite. The THOS program was developed by GISTDA and EADS Astrium, the prime contractor, initiated work on the satellite in 2004. On October 1, 2008, THOS was successfully launched by a long range rocket from York, Russian Federation. Today, GISTDA is developing a worldwide network of distributors to allow the users to use and access all GISTDA products.

China HEAD Aerospace Technology Co. (HEAD AEROSPACE) is the leading space trading company in China engaged in introducing worldwide advanced space products & technology to domestic civilian space missions as well as marketing of Chinese space products to business space market worldwide. HEAD procures space products and technologies worldwide and resells to China. HEAD team is working together with more than many space companies abroad marketing its products & service in China. Thanks to our suppliers and partners, HEAD is able to offer space products, service and technologies to our domestic customers in various fields. Encouraging the civilian application of space technology, HEAD is also being a distributor of Chinese commercial space products and service for satellite system and subsystem level companies or agencies outside China, actively promoting the sales of high quality and cost efficient satellite parts made in China. Taking the advantage of close contact with many space companies and organisations in China, HEAD offers off the shelf satellite parts with reasonable flight heritage as well as quantities space products and services.

China HEAD Aerospace Technology Co.
Contact: Mr. Joon Lee
72 73

China HEAD Aerospace Technology Co. (HEAD AEROSPACE) is the leading space trading company in China engaged in introducing worldwide advanced space products & technology to domestic civilian space missions as well as marketing of Chinese space products to business space market worldwide. HEAD procures space products and technologies worldwide and resells to China. HEAD team is working together with more than many space companies abroad marketing its products & service in China. Thanks to our suppliers and partners, HEAD is able to offer space products, service and technologies to our domestic customers in various fields. Encouraging the civilian application of space technology, HEAD is also being a distributor of Chinese commercial space products and service for satellite system and subsystem level companies or agencies outside China, actively promoting the sales of high quality and cost efficient satellite parts made in China. Taking the advantage of close contact with many space companies and organisations in China, HEAD offers off the shelf satellite parts with reasonable flight heritage as well as quantities space products and services.

China HEAD Aerospace Technology Co.
Contact: Mr. Joon Lee
72 73
The Korea Aerospace Research Institute (KARI) was established as a government funded research institute in 1989 with the aim to contribute to the development of the national economy and improvement of the quality of life in Korea through research and development in the field of aerospace science and technology. KARI has made enormous strides in space field. As for satellite development, the projects include Korea Multipurpose Satellites (KOMPSAT-1, 2, 3, 3A, 5) and the Communications, Oceanography and Meteorology Satellite (COMS). In the area of launch vehicles, the KSLV-1 project developing the launch vehicle with the payload of 100 kg class small satellite was successfully completed in January 2013 and now the next project is underway for the purpose of the development of the launch vehicle capable of launching a 1.5 ton class satellite into low-earth orbit. For the launch site, KARI built Naro Space Center in 2009. KARI will strive to continue in its ongoing mission to develop and use aerospace technology for the benefit of humanity with future plans to expand its knowledge to the Moon, the Solar System and beyond.

Event:
Korean Day; Date: September 24th, 14:00 – 14:30; Place: Booth No. B50; Contents: Korea Network Reception for Space Research & Development

Beijing Institute of Space Mechanics & Electricity

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Fax: +86-10-65326696
Email: awexbrubeijing@188.com
Web: www.awex.be

Part of a worldwide network of 105 commercial offices, AWEX Beijing has a special and diversified mission to assist Walloon companies to make their first steps in the Chinese market, promoting their products and technologies, searching for business partners, providing market analysis and intelligence, organizing business meetings, technical seminars and exhibitions, organizing business delegations to China and Chinese business and investment delegations to Belgium. Its team acts as a permanent bridge between businesses from both countries.

Contact: Michel Stassart
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3 - B1300 Wavre,
Belgium
Tel: +32 475 804 700
Fax: +32 4 365 23 46
Email: michel.stassart@skywin.be
Web: http://www.skywin.be/?q=en

Part of a worldwide network of 105 commercial offices, AWEX Beijing has a special and diversified mission to assist Walloon companies to make their first steps in the Chinese market, promoting their products and technologies, searching for business partners, providing market analysis and intelligence, organizing business meetings, technical seminars and exhibitions, organizing business delegations to China and Chinese business and investment delegations to Belgium. Its team acts as a permanent bridge between businesses from both countries.

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Contact: Michel Stassart
Chemin du Stockoy,
3 - B1300 Wavre,
Belgium
Tel: +32 475 804 700
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Web: http://www.skywin.be/?q=en
The Aerospace Cluster "SKYWIN" is a group of 120 companies, training centers and research units engaged in public and private partnership and building synergies around common innovative projects in the space and in the aeronautic sectors. SKYWIN represents some 6,400 jobs and €1 billion revenue, exporting 90% of its products.

Stand No: B54
CSL-University of Liege

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Belgique

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Web: www.ulg.ac.be

CSL is a high level Research Center of the University of Liège, devoted to applied research and managed as a profit center. CSL performs RTDI activities mainly related to the space science. CSL commits to be an actor of the economic development for the local industry. CSL animates a state of the art research tank throughout the University of Liege.

Stand No: B54
Thales Alenia Space Belgium (ETCA)

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Belgium

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Web: www.thalesaleniaspace.com

THALES ALENIA SPACE BELGIUM (ETCA) is a Belgian Company in the forefront of space sector. World leader in Power Electronics for satellites, we are also the main supplier of Electronics for the European Launchers. Day after day, our staff of 500 offers quality products and services to our customers all over the world. Satellites: Thales Alenia Space Belgium is a world leader in Power Conditioning and Distribution for satellites. Our product range covers the needs of spacecraft electronics from micro satellites up to large geo-satcom (from 250W up to 20 kW).

The company also enjoys a position at the forefront of several flight electronics products: flexible microwave power amplifiers with traveling wave tubes (LCTWA), power supplies for plasma propulsion thrusters (PPS), motor drive electronics, DC/DC converters. More than 150 satellites and spacecrafts, currently in orbit, harness equipment designed and built by Thales Alenia Space Belgium. Launchers: Thales Alenia Space Belgium is the main supplier of on-board electronics for Ariane 5 (we provide more than 50% of electronics). Thales Alenia Space Belgium is also the European leader for the Thermal Systems and Control Benches for launchers. We are prime contractor (and manufacturer) for the Safeguard System of the Russian launcher Soyuz that are launched from French Guiana.

Stand No: B54
AMOS SA

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Web: www.amos.be

DESIGN AND MANUFACTURE OF MECHANICAL, OPTICAL AND OPTO-MECHANICAL SYSTEMS FOR ON BOARD AND GROUND APPLICATIONS. OUR SERVICES: Mechanical and optical engineering; Finite element method calculation (SAMCEF); CAD (CATIA V5); Optical design (ZEMAX, FRED); Optical manufacturing (Zerodur, SiC, Aluminum and other metallic alloys); AFV (Assembly Integration and Verification); Precision Optical Metrology. OUR EXPERTISE: Mechanical ground support equipment (MGSE); Vacuum and thermal simulators; Test benches; On board mirrors, telescopes and earth-observation instruments (Telescopes) for professional astronomy.

Stand No: B54
Alcantara Cyclone Space

Contact:
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76 77
Alcântara Cyclone Space is a bi-national Ukraine/Brazil launch service provider having exclusive rights to commercialize the Cyclone-4 launch vehicle launched from Alcântara Launch Center in Brazil. Cyclone-4 is a Ukrainian carrier rocket which is being developed for commercial satellite launches.

Stand No: B65  
American Institute of Aeronautics and Astronautics (AIAA)

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1801 Alexander Bell Dr  
Reston, VA 20191-4344

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Web: www.aiaa.org

AIAA is the largest aerospace professional society in the world, serving a diverse range of more than 35,000 individual and corporate members from 80 countries, whose innovative, high-value profession helps make the world safer, more connected, more accessible, and more prosperous. AIAA members have produced everything from the brilliant innovations that improve daily life to the major missions that exemplify the human drive to explore and to achieve amazing things. AIAA is dedicated to stirring and celebrating aerospace ingenuity and collaboration, and conveying the importance of aerospace to our way of life, to help inspire innovation and drive technological progress in the U.S. and throughout the world.

Event:  
The American Institute of Aeronautics and Astronautics (AIAA) invites all of its members to a cocktail reception in the AIAA exhibit booth B65 on Monday, 23 September, 1700-1800 hrs. This is an opportunity to meet the new AIAA Executive Director and former NASA astronaut Dr. Sandra Magnus, as well as learn about membership, events, and publications.

Stand No: B67  
Springer

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Web: www.springer.com/astronomy

Springer Science+Business Media or Springer is a global publishing company that publishes books and peer-reviewed journals in science, technical and medical (STM) publishing. Springer also hosts a number of scientific databases, including SpringerLink, Springer Protocols, and SpringerImages. Book publications include major reference works, textbooks, monographs and book series; more than 88,000 titles are available as e-books in 18 subject collections. Within STM, Springer publishes the largest publisher and second-largest journal publisher worldwide after Elsevier, with around 55 publishing houses, almost 6,200 employees and around 2,000 journals and 7,000 new books published each year. Springer has major offices in Berlin, Heidelberg, Dordrecht, and New York City.

Stand No: B83  
Shanxi Engineering Laboratory for Microsatellites, Northwestern Polytechnical University

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Shanxi Engineering Laboratory for Microsatellites 127  
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Xi’an, Shaanxi Province,  
China

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Web: http://lifangxing.com/SE.htm

Shanxi Engineering Laboratory for Microsatellites (SELM), Northwestern Polytechnical University (NWPU), is engaged in designing, developing, and testing for microsatellites, as well as corresponding teaching and training services. The main research field is: Overall scheme for microsatellites; Design and development of GNC for microsatellites; Orbit planning and on-board control strategies for microsatellites; Development of on-board computers and control system components; Dynamics and simulation technologies for microsatellites; Data processing and data applications of satellites; Expanding researches for novel satellites and new fields for satellite application. SELM is a member of the International Astronautical Federation (IAF). A large number of domestic and international aerospace, aviation enterprises and scientific research institutes have established close ties with SELM. In recent years, it has participated in lots of Chinese key projects, including: Tiangong-1 space laboratory, Shenzhou series spacecraft, navigation satellites, FY serial satellites, and manned lunar landing practice series. SELM possesses high level experiment equipments for microsatellites.
Such as Single-axis/Three-axis air-bearing satellite simulating system, spacecraft formation and relative navigation simulating system, satellite ground station, clean room, three axis table equipped with temperature box, vibration table, thermal vacuum oven, etc. SELM currently has 26 permanent faculty members, including 18 members with doctor's degrees. In addition, the laboratory has a postgraduate team of about 50 to 70 members. Among them are 20 to 30 doctoral candidates.

Stand No: B84
Space Industry Association of Australia
Contact: c/- Institute for Telecommunications Research; Building W; University of South Australia; Mawson Lakes SA 5095, Australia
Email: contactus@spaceindustry.com.au

The Space Policy Unit coordinates Australia’s national and international civil space activities, including partnerships with international space agencies and organisations. The Unit is Australia’s central point of contact for all civil space activities and supporting Australian national policy.

Stand No: B85
Active Space Technologies
Contact: Rua Coronel Âlvaro Veiga Simão, 3025-307 Coimbra, Portugal
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Fax: +351 304 505 506
Email: bruno.carvalho@activespacetech.com
Web: http://www.activespacetech.com/EN/home.htm

Active Space Technologies offers high added-value products and services in the fields of thermo-mechanical engineering (thermal and structural analysis, fluid dynamics, design, high precision manufacturing and testing), electronics engineering (embedded systems, digital control), as well as Management Support services for technology transfer and development projects (project management, systems engineering, project coordinator). Active Space Technologies is a European based company positioning its services in the global markets of aerospace, defence, automotive, nuclear fusion, and scientific sectors.

Stand No: B86
ESTACA
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Founded in 1925, ESTACA is a member of the “Conférence des Grandes Écoles”, a group of the most prestigious engineering schools in France. ESTACA is highly specialized in the fields of aeronautics, automotive, space and guided transport industries. The training courses constantly evolve to meet the requirements of companies and adapt to the emergence of new technologies or disciplines. ESTACA's graduates undertake the design, development and production of transport systems and components. The school’s expertise is well recognized by industry, which has ranked it among the best engineering schools for the quality of its graduates.

Stand No: B87
College of Aerospace Science and Engineering
Contact: Yong Zhao
Changsha, Hunan Province, 410073, China
Tel: 13786143694  / 0731-84512301
Email: nudtzhy@163.com
Web: http://www.nudt.edu.cn/special_eng.asp?classid=7

The exhibition products of National University of Defense Technology (NUDT) mainly include (1) the first nano-satellite SpacePioneer-1 (TianTuo-1, TT-1), self-designed and developed by NUDT, which was launched into space from China Taiyuan Satellite Launch Center on 10 May 2012, and has successfully fulfilled its flight mission, including the feasibility validation of the Board Nanosat architecture and the satellite kernel system, the scientific experiments of atomic oxygen detection and stable earth space imaging, and orbit demonstration of space-borne ship Automatic Identification System (AIS); (2) the self-developed space particle radiation detection instrument and the research achievements in space radiation protection theory, method, and test technology; (3) the multi-mode high-performance satellite navigation signal simulator, as well as the research achievements in the precision measurement technology for multiple spacecrafts, the satellite tracking telemetry and command, and radio precision measurement technology.
Turkish Aerospace Industries, Inc. (TAI)

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TAI, ranking among the top hundred global players in aerospace and defense arenas, is Turkey’s center of technology in design, development, modernization, integration and life cycle support of integrated aerospace systems, from fixed and rotary wing air platforms to UAV and space systems. With the strategic investments made in recent years, TAI has established a respected and recognized presence in the global market as a reliable player known for its technologies and commitment to ultimate customer satisfaction. Being the Pioneer of Turkish Space Industries, TAI Space Systems focuses on the continuous improvement of its products and capabilities from subsystems to integrated systems including the technological infrastructure investments to ensure a sustainable strategic growth. TAI Space Systems takes part in national and international research and development projects as prime contractor or risk sharing partner. Building expertise through the Turkish Space Programs since 2002, TAI offers its services, products and AIT facilities to the international market.

Astrium GmbH

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Web: http://cs.astrium.eads.net/sp/location-bre.html

Bremen is the European centre of excellence for manned space flight, launch vehicle stage integration and space robotics. With a workforce of around 1,000 highly qualified employees, Bremen is the German site responsible for key European contributions to the International Space Station ISS, such as the Columbus space lab and the unmanned Automated Transfer Vehicle (ATV). Bremen is the industrial operator responsible for operating the European elements of the Space Station. In addition, the upper stage of the Ariane 5 launch vehicle is developed and built at the site. Other work and research areas include rendezvous and docking, automatic spacecraft landing, tank technology, anti-gravity research and mission planning.

Arianespace

Chairman & Chief Executive Officer: Stéphane Israël

Arianespace, Boulevard de l’Europe
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France

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Web: http://www.arianespace.com

Arianespace was founded in 1980 as the world’s first commercial satellite launch company. Its shareholders include the French space agency CNES, Astrium and all European space companies, representing 10 European countries. As of January 1, 2013, 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 D.C., Singapore andTokyo. Since its creation, Arianespace has signed contracts with 81 customers worldwide carrying out 213 Ariane launches, 31 Soyuz launches (two at CSG and 26 at Baikonur via its subsidiary, Starsem) and the two first launches of Vega. More than half of the commercial satellites in service today were launched by Arianespace.

American Astronautical Society (AAS)

President: Lyn D. Wigglesworth

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Springfield, Virginia 22151-1710

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Web: http://www.astronautical.org/

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 program through cooperation with international space organizations. 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.

Arianespacenews.com

Contact: Jake Reefe

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Web: http://www.arianespace.com

American Astronautical Society (AAS)
Serving over 1.2 million professionals in 185 countries, Aviation Week is the largest information and services provider to the global commercial, defense, maintenance/repair/overhaul (MRO), space and business aviation communities and plays a critical role in connecting industry professionals worldwide. With the developments of higher value analytical tools - Aviation Week Intelligence Network (AWIN), MRO Prospector and Top Performing Companies (TPC) - markets and customers are empowered with the essential data they need. AviationWeek.com, along with the events series, enables communities of buyers and sellers to connect more frequently, providing marketers with new media opportunities. Aviation Week continues to expand in the defense sector as well as in emerging markets including India, the Middle East and Asia/Pacific.

Dneprotechservice
CEO: Oleksii Zinoviev.
Contact: Maryna Traiduk
Scientific Production Firm "Dneprotechservice" LLC
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Web: http://www.dts.dp.ua/en
LLC SPF "Dneprotechservice" is a managing company of a number of machine-building enterprises of Ukraine, focusing on four core activities: heavy engineering, underground infrastructure, space-rocket hardware, prototyping and technology developing for private money, followed by the organization of production and sales. Among the main production assets of Dneprotechservice are such as: PJSC "Dneprotayzhmash" which produces the ground support equipment of technical and launching plants for the Space-Mission Vehicles; PJSC "Ukrainian Scientific-research Institute of Mechanical Engineering" (technology and equipment for manufacture of aerospace equipment); SPE "NIKE" (technology and manufacturing of honeycomb fillers and structures); PJSC "Joint Engineering Company" (technology and equipment manufacturing of nondestructive testing).

EPFL - Ecole Polytechnique Fédérale de Lausanne
President: Patrick Aebischer
Contact: Volker Gass, Director
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1015 Lausanne
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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.

INSYEN AG
CEO: Mr. Dave McMahon
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INSYEN AG’s international team of professional and committed engineers, planners and developers have been contributing to manned space exploration, new technology breakthroughs and customer satisfaction for over 35 years. Our dedication to reliability, performance, proven solutions, and innovation has been the cornerstone of our reputation. Insyen is a prime subcontractor on the Columbus Project, the European module of the International Space Station and is actively involved in the engineering and ground operations of the Columbus Control Center and Flight operations of the Columbus module. We are also supporting the development and implementation of the Galileo ground facilities.

JAXA - Japan Aerospace Exploration Agency
President: Naoko Oikuma
Contact: Main Sailor
84 85
On October 1, JAXA—the only public aerospace R&D organization in Japan—will enter its 10th year. Amid the nations collaborating space development, the role and expectations for Japan are constantly on the increase. Under the new JAXA law enacted last June and the new Basic Plan for Space Policy re-evaluated in January, JAXA is expected to play a greater role than ever before as a core implementation organization to technologically support overall government space development and utilization, including safety and security areas, disaster preparation, and industrial development. By making the most of its world-leading technologies, JAXA has contributed to the realization of safe and comfortable society and the search for unknown frontiers. JAXA will continue to challenge to the skies and space to create prosperous opportunities for the future of the earth, while serving as a global leader.
Spaceflight
Contact: Suszann Parry
British Interplanetary Society
27-29 South Lambeth Road,
London, SW8 2EZ

Spaceflight is the international magazine of space, published by the British Interplanetary Society. It first appeared in 1956 and has been at the forefront of space exploration ever since. Spaceflight is published monthly with each volume of 12 issues having continuous pagination and an annual index included with the December issue. Widely used as a magazine of authoritative reference, Spaceflight has long been recognised as a prime source of information on international space programmes and commercial space exploration. Regular features, often written by those directly involved in a particular technology or project, cover all aspects of space technology and exploration, astronomy, satellites, commercial space, political activities, educational programmes and detailed space mission reports.

Space News
President: William A. Kline
Contact: Christine Frazee
1414 Prince Street, Suite 300
Alexandria, Va. 22314

For over two decades, SpaceNews has been the only publication that space professionals throughout the world turn to first for the news that affects their jobs. Whether for the latest trends in military space capabilities, breaking developments in satellite communications, or the current status of a budget, our readers count on SpaceNews to keep them informed. SpaceNews goes beyond print. We offer a distinct online information portal, delivering accurate, timely news and in-depth analysis, in addition to a variety of custom publishing options. In this ever-changing market, we know how important it is to provide a cost-effective way to send your company's advertising message to the right people.

Space Safety Magazine
Editor-in-Chief: Andrea Giri
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Email: agiri@spacesafetymagazine.com
Web: http://www.spacesafetymagazine.com/

Space Safety Magazine (SSM) is a quarterly print magazine and a daily news website, jointly published by the International Association for Advancement of Space Safety (IAASS) and the International Space Safety Foundation (ISSF). Space Safety Magazine is focused on safety related issues affecting space as well as safety on Earth from space events and objects. We regularly follows activities and threats in space debris and situational awareness, space weather and radiation impacts, nuclear safety, human spaceflight, launches, and reentries. SSM is highly international in nature, reporting on developments from around the globe, distributing content on multiple continents, and featuring an international staff.

The Aerospace Corporation
President and CEO: Wanda M. Austin
Contact: Vincent Boles
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90245-4691 El Segundo, CA
United States

The Aerospace Corporation has provided independent technical and scientific research, development, and advisory services to national security space programs since 1960. It operates a federally funded research and development center (FFRDC) for the United States Air Force and the National Reconnaissance Office and supports all national security space programs. It also applies 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.

The Planetary Society
President: Jim Boll
Contact: Bill Nye
Email: info@planetary.org
Web: http://www.planetary.org/

The Planetary Society is the first global organization dedicated exclusively to space science and exploration. We work to ensure that space exploration benefits all humanity, now and for future generations. We support the global scientific community and encourage participation by all people. We believe that everyone should have access to information and opportunities related to science and technology.
We create. We educate. We advocate.

With your support, The Planetary Society sponsors projects that will seed innovative space technologies, nurture creative young minds, and is a vital advocate for our future in space.

Right now we are...

• Scanning the skies for dangerous asteroids,
• Hunting for Earth-like planets,
• Searching for life in the Universe,
• Advocating for needed science funding,
• And flying our very own solar sail spacecraft, Lightsail-1.

Yuzhnoye State Design Office

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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.