

## 70 YEARS

Connecting @ll Space People

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## The Story of the International Astronautical Federation





by IAF President Pascale Ehrenfreund



### The origins

During the mid-20<sup>th</sup> Century, the rapid development of military rockets during and after World War II and their potential led to a growing public interest in rocketry and in the possible use of rocket power for the attainment of space flight. Flight outside the Earth's atmosphere has been a dream of human beings for generations. The advancing rocket technology, together with other rapid innovation in electronics, supersonic flight, and atomic power, led professional scientists and engineers to a startling conclusion: space flight could be achieved within their generation.

When dealing with rocket technology, those pioneers were able to see beyond the use for merely military purposes but aimed at something much greater: the realization of space flight and space research as a peaceful enterprise. Although national pride and competition were the main drivers of space research, many experts in astronautics soon realized that the implementation of space flights was a scientific, technical, and economic challenge of such magnitude that it could not be solved by one single nation.

Some space enthusiasts started to look for an international platform where they could meet, share, connect, and exchange

their studies, their thoughts, their visions beyond the limits of national ambitions and politics.

The initiative leading to the foundation of the International Astronautical Federation (IAF) dates back to the summer of 1949, when the Board of Directors of the German Gesellschaft für Weltraumforschung (GfW) adopted a resolution stating that "the push into interplanetary space and the future research by space flight is an international task." and recommended an international meeting of all societies researching in this field to foster friendly relations and an exchange of experiences and ideas. This resolution was circulated to the astronautical societies around the world, to immediately find positive feedback, which led to the organization of their first public gathering in Paris in 1950, known as the first International Astronautical Congress. At this first Congress the delegates unanimously voted a resolution in which they expressed wishes to create an international federation to keep contact and secure future international cooperation.

The positive outcome of this experience led to a second Congress in 1951 in London, where the original participants, along with new delegations from other countries, officially founded the International Astronautical Federation (IAF).

The founding members from Argentina, Austria, Denmark, France, Germany, Italy, Spain, Sweden, Switzerland, United Kingdom, and United States, committed to organize the International Astronautical Congress on a yearly basis and meet regularly. During the Cold War period, the IAF Congress soon became the one and only forum where space enthusiasts from all over the world could meet.

### Today

Since its establishment, the IAF has been promoting dialogue and cooperation, establishing itself as a key actor in the space community. Today, with its 433 members from 72 countries, the IAF is truly the world's leading space advocacy body. Following its theme – "A space-faring world cooperating for the benefit of humanity" and its motto "Connecting @Il Space People" - the Federation keeps advancing knowledge about space and fostering the development and application of space assets by promoting global cooperation. As organizer of the world's premier space event, the International Astronautical Congress (IAC), and other gatherings on specific topics, the IAF is at the heart of the international space dialogue.

Capitalizing on its many years of expertise and relying on its worldwide network of volunteers, the IAF over the past years

has been expanding its scope and reach, focusing also on inclusiveness in the space sector, through its "3G" (Geography, Generation, Gender) Diversity initiative, creating a butterfly effect resonating within the global space community.

### The future

Bringing with us our 70 years of history, we look now to the future: a future that will surely be exciting but also challenging, with many revolutionary developments in technology, science, society, and geopolitics.

I am convinced that the IAF will continue to play a major role in the global space arena by supporting global space governance, propelling the global space economy, and fostering global space advocacy.

No matter what the future will hold, the IAF is committed to connecting @Il space people for a space faring world cooperating for the benefit of humankind.

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## **Endorsements from around the world**





Simonetta Di Pippo

Director, United Nations Office for Outer Space Affairs (UNOOSA)

### The IAF and the UN Sustainable Development Goals

The Sustainable Development Goals, a global blueprint designed and adopted by world leaders at the United Nations, are aimed at achieving a more sustainable future for all. We know as a matter of fact that space assets are indispensable for monitoring as well as for accelerating the achievement of the Goals. Their reinforced operation is the pre-condition for a swifter path to sustainable socioeconomic development. In this context, international cooperation plays an important role and for 70 years, the International Astronautical Federation, as a global network of over 400 members, has been integral to connecting space people for common goals through a range of events and activities.

At the United Nations Office for Outer Space Affairs (UNOOSA), we are honoured to have had the International Astronautical Federation as our partner in delivering the promise of a better tomorrow. For three decades, UNOOSA and IAF have organized workshops on space technology and its transformative power on socioeconomic development. These workshops offer a unique, annual opportunity for exchanging views and

experiences among space stakeholders on the application of space advances to improving life on Earth.

At UNOOSA, we are also thrilled to take part in the International Astronautical Congress which year-by-year convenes thousands of representatives of companies, space agencies, governments, academia and civil society, even the general public. The IAC is a powerful platform for presenting ideas, sharing news, promoting novel technologies, even building new partnerships, evidenced by several agreements UNOOSA has signed in recent years during the Congresses.

I commend and fully embrace the work done by the IAF over the years. 70 years is a great milestone and I congratulate the organization, all its members, staff and volunteers who make the activities possible. I wish you all the best in the future and at UNOOSA, we already cannot wait for the next joint endeavours!

## **Africa**





Val Munsami

CEO, South African National Space Agency (SANSA)

Past Vice President, IAF

Chair, IAF Administrative Committee on Developing Countries and Emerging Communities

In October 2011, South Africa saw the world gather for the first time on African shores to witness the christening of the newest member of the global space family, the South African National Space Agency (SANSA). Having to host the IAC 2011, was indeed a singular August event for the country Agency, and Continent, and now as SANSA celebrates a decade of space evolution, we look back and acknowledge the incredible support received from the International Astronautical Federation (IAF) and associated partners in delivering knowledge, products and services to our citizens and global partners for the past ten years.

The IAF has excelled in the pursuit of uniting the space community and welcoming new additions to the space family as can be witnessed through the portfolio of Developing Countries and Emerging Communities which I am currently leading towards supporting the many emerging space economies and countries from Africa, South America and Asia.

This aligns well with SANSA's vision of having an integrated space capability that responds to the socio-economic challenges in Africa by 2030 and through access afforded by the IAF, these countries and the local South African space industry can gain visibility and enhance their offerings through participation at the International Astronautical Congresses over the years.

The IAF remains the most relevant global body that unites the global astronautic community together and its "3G" Diversity (Geography, Gender and Generation) must be applauded as it aims to provide equitable access and participation from across the world. SANSA congratulates the IAF on 70 phenomenal years and looks forward to magnifying the impact space has on the lives of the global citizens in partnership with the space community of the IAF and its extended networks.

## Asia





**Wang Yiran** 

Vice President & Secretary General, Chinese Society of Astronautics (CSA)

Stay True to the Mission and Forge Ahead Steadily - The Hopeful and Vigorous Development of 70 Years

I am Wang Yiran, Vice President & Secretary General of the Chinese Society of Astronautics. On this special occasion, I am very honoured to share my experiences and views.

This year marks the 70<sup>th</sup> anniversary of the IAF and the 65<sup>th</sup> anniversary of China's space industry. Since joining IAF in 1983, China has always been an active member. Of the ten IACs hosted by Asia, China hosted two and also hosted two Global Conferences. Asia's space industry is a rising star that grows rapidly. Being open and cooperative, China has worked together with other space countries in Asia to promote space academic exchanges and prosperity globally on the platform of the IAF.

The 70 years' development of the IAF is part of the world space history, which perfectly reflects its motto of "Connecting @I space people". Based on my personal experiences, I think that the IAF has three remarkable characteristics. First, it is resilient. Over the past 70 years, the IAF has been continuously

improving its strategy, constitution, structure, and activities to keep pace with the world space progresses. Second, it is inclusive. By now, IAF has 433 members in 72 countries and regions, which cover all space-related areas and sectors worldwide. Both, traditional and emerging space countries in the IAF, have the opportunity to voice their ideas and seek common development. Third, it is people-oriented. The IAF fosters diverse talents for the world space workforce by holding various positions and events for both the somebody and the nobody to develop and demonstrate their capabilities.

In the future, I believe that Asia will contribute more ideas and efforts for the development of the IAF. I wish the IAF to stay true to its mission of being a link of uniting all space people and a bridge for the international space cooperation to contribute more wisdom and strength to build the shared space future for humankind.

## **Europe**





Gabriella Arrigo

Director, International Affairs, Italian Space Agency (ASI)

Past Vice President, IAF

The International Space Forum Initiative at Ministerial level was created in 2015 to promote and extend the participation of Academia and University in space activities around the world, and, in particular, in developing and emerging space regions, so as to foster space knowledge dissemination and capacity building, finding better solutions to global challenges.

The first International Space Forum was jointly organized by the IAF and the Italian Space Agency (ASI) in Trento (Italy) in 2016, with the title "Space Science and Academy for Global Challenges". 42 governmental delegations, 7 International Space Organizations from Africa, the Americas, Asia and Europe, led by Ministers, Heads of Space Agencies and representatives of Academia, attended it and adopted the Trento Space Statement, which represented the first step towards the achievement of the Forum's goals, agreeing to repeat the same format at a regional level.

The 2<sup>nd</sup> International Space Forum – The African Chapter - jointly organized by IAF and ASI, in collaboration with the Kenyan Space Agency in Nairobi in 2017, was the first regional Forum. Titled "Space Science and Academia for sustainable Development in Africa", it was attended by 29 African governmental delegations and 13 international and national space organizations that adopted the Nairobi Page, focusing their recommendations on the African needs and suggesting strategies to involve African Universities and Academia in both space programmes and the IAF community.

The 3<sup>rd</sup> International Space Forum – the Latin American and Caribbean Chapter - jointly organized by IAF and ASI, in

collaboration with CONAE, was held in Buenos Aires (Argentina) in 2018 with the title "Space Science and Academia for better Solution to Latin America and Caribbean's Challenges". 17 Latin America delegations and 13 international and national space agencies attended it, with the final adoption of the Buenos Aires Page and the commitment to promote greater space cooperation in the region to prepare adequate grounds for the development of a future regional space agency.

The 4<sup>th</sup> International Space Forum – The Mediterranean Chapter – jointly organized by IAF and ASI, with the collaboration of the University Mediterranea, was held in Reggio Calabria (Italy) in 2019 and titled "Space technology and applications meet Mediterranean needs". 14 governmental delegations from Mediterranean countries and 18 international and national space agencies attended it, adopting the Reggio Calabria Page focused on Space and Blue Economy, Maritime Surveillance and Space Education and Cooperation.

The 5<sup>th</sup> International Space Forum was scheduled in Kuala Lumpur (Malaysia) in 2020 for the Southeast Asia countries and, unfortunately, postponed to February 2022 due to the COVID-19 pandemic.

So far, the International Space Forum initiative has been a success and has shown how much the regional communities are interested in learning and using space technologies to solve global problems and address local needs. In particular, we connected Academia and University with other space players in order to increase mutual potential and benefits for all.

## **North America**





**Mary Snitch** 

Lead, External Engagements, Lockheed Martin Corporation (LMC)

Vice President for Communications, Publications and Global Conferences, IAF

2021 marks the 70<sup>th</sup> anniversary of the International Astronautical Federation, and what an incredible impact the IAF has been to all space enthusiasts in every region of the globe! From its earliest days, the IAF has been recognized as a gathering place to learn and expand horizons in all domains of space technology and policy. Today the IAF continues to be a venue for students, space professionals, government leaders, and distinguished academics to share knowledge and expertise and to cultivate life-long friendships.

I personally consider that one of IAF's most important accomplishments was to launch the "3G" Diversity Initiative in 2016 and the Excellence Award recognizing "3G" Diversity in 2017. The Initiative was a key component of President Jean-Yves Le Gall during his tenure and the IAF has made 3G a focal part of its agenda looking into the future. I had the great honour of serving on the IAF Bureau under President

Le Gall as VP, Diversity Initiatives, and was asked to serve an additional year as Special Advisor to the President for Diversity Initiatives to carry on the "3G" activities.

Recognizing the global nature of space and the continuously evolving space environment, with constant changes in stakeholders, the IAF is dedicated to continuing and advancing the IAF Diversity initiative and provide a framework for an inclusive and open exchange on diversity and equality topics within the IAF Membership.

I applaud the IAF for all its great work on their 70-year journey, and extend my highest regard to the leadership, staff and member organizations for making the Federation the leading voice in global space affairs.

## **Latin America**





Marta Gaggero

Chief Counsel, Centro de Investigacion y Difusion Aeronautico Espacial (CIDA-E)

GLAC 2018 Local Organizing Committee Chair

From 21 to 23 May 2018, the Global Space Applications Conference, GLAC 2018, was held in Montevideo, Uruguay. The event was organized by the International Astronautical Federation (IAF) and hosted by the Centro de Investigación y Difusión Aeronáutico-Espacial (CIDA-E), an IAF Member since 1985.

The Global Conferences, organized by the IAF since 2010, had been held in Beijing, Washington, Paris, Munich and Geneva. This was the first time that an IAF Global Conference was held in Latin America and also the first time that the IAF organized an event in Uruguay.

GLAC 2018 was declared of National Interest by the Presidency of the Republic. It was attended by 179 delegates from 24 countries.

The theme of space applications was developed in 6 Keynotes and 6 Plenaries, which considered space applications im-

portance as a factor for socio-economic growth; to achieve better results in agriculture and maritime activities; for integrated risk management; for climate change studies; to preserve natural resources, considering finally, the need to democratize spatial data. All plenary sessions dealt with the legal aspects of the different topics.

A Seminar for young students and professionals, organized by the Space Generation Advisory Council (SGAC) and the IAF, also took place, giving participants the opportunity to learn about and consider the policy aspects of space applications.

GLAC 2018 allowed delegates to exchange technical information as well as explore possibilities of cooperation in the area of space applications, thus fulfilling one of the key objectives of the conference.

## Russia





**Sergey Krikalev** 

Executive Director, Human Space Flights, State Space Corporation ROSCOSMOS

Past Vice President, IAF

In the days of the global space exploration and commercialization, influence and value of the International Astronautical Federation have significantly increased.

The International Astronautical Federation was founded in 1951 and during 70 years of its functioning 433 members in 72 countries, including all leading space agencies, companies, research institutions, universities, societies, associations, institutes and museums worldwide joined the organization.

Thanks to the IAF efforts, it becomes easier to integrate the space community for new achievements in the fields of human space exploration; exchange of plans, results and data of space programmes between partners; educate young specialists in the field of aerospace industries; establish cooperation in various space programmes; promote space technologies and space systems among developing countries.

IAF's activities provide a benefit in sustainable development of all nations.

The IAF provide unique cooperative opportunities for experts and specialists from space agencies, industries, and research. The IAF is the platform tying various space entities in their great desire of space exploration. Thanks to collaboration, now we have wider Low Earth Orbit exploration opportunities and ambitious plans to go beyond LEO.

The IAF as a great contributor in space exploration will support the space community in its significant desire of moving forward, overcoming any obstacles. In the nearest future, we will be able to continue great accomplishments of our ancestors, and, as one team, to go to the unknown.

## **Oceania**





**Michael Davis** 

Chair, The Andy Thomas Space Foundation IAC 2017 Local Organizing Committee Chair

Congratulations to the International Astronautical Federation from Oceania. In 1951, the year of the founding of the Federation, a test range at Woomera in South Australia had already been established. This grew into one of the world's busiest space launch facilities. The Woomera Rocket Range, with a population at its peak of over 6,000 staff and their families, is part of Australia's proud space history and is the precursor of a successful commercial launch business in New Zealand and potentially two new commercial launch sites in Australia.

Australia's space history also includes the hosting of two memorable International Astronautical Congresses, the first in 1998 in Melbourne and the second in 2017 in Adelaide. The latter event is widely acknowledged as the catalyst for the Australian Government decision to establish the Australian Space Agency. This was preceded by the decision of the New Zealand Government to establish its own space agency in 2016.

Covering a significant percentage of the Earth's surface, Oceania has played a role in some of the world's most important space achievements. This includes providing tracking and communications for the Mercury, Gemini and Apollo programs, receiving the first television pictures of Neil Armstrong's step onto the Moon and providing the original launch facilities for ELDO, the predecessor of the European Space Agency. We also provided the return to Earth facilities for our friends in Japan for both Hayabusa asteroid missions.

Sixteen IAF members are based in the Oceania region. As the space sectors in Australia and New Zealand grow and projects mature, this number will increase and the IAF will continue to provide platforms for Australian and New Zealand members to engage in dialogue and cooperation in a wide range of international space programs. Hopefully, it will not be too long before the International Astronautical Congress returns to this part of the world, providing the opportunity for our international friends and colleagues to witness and hopefully collaborate in the impressive range of space activities being developed on both sides of the Tasman Sea.

## **Next Generation**





**Davide Petrillo** 

Executive Director, Space Generation Advisory Council (SGAC)

Vice President for Education and Workforce Development, IAF

2020 and 2021 have been a great challenge for us all. Yet, from a youth perspective we saw strong promise in the future and we realized that resilience has been the key factor in the face of the adversities that have inspired us to go above and beyond. Since the pandemic era we realized that one message is clear: we must continue connecting our passionate young leaders from all corners of the globe and provide them a platform for growth to become the future leaders of the space community.

The 72<sup>nd</sup> IAC reconfirmed its important role for the next generation, with a wide set of activities dedicated to them and around 50% of the registered delegates below the age of 35. This important achievement is showing a clear message: the next generation is here and is ready to act in order to stimulate and propel the creativity of our community to inspire the present and future workforce of the space sector enabling the exchange of opinions in an international context.

We can only achieve this if we all support and integrate our global network of students and young professionals. The continuation of activities directed at early-to-mid-career professionals who seek to broaden their network and advance their respective careers will ensure to not only attract the next generation of space professionals but also to guarantee a sustainable growth in the long term.

With the experience acquired from the past, we have a long history of productive multilateral collaboration in the space sector as the key example of what the international community can achieve with a common goal. Only together with the optimism and encouragement of our young generation we will ensure retention in our industry and we will succeed in the future.





1950. The first International Astronautical Congress takes place in Paris, France



1951. The International Astronautical Federation (IAF) is established



### **1951.** Founding members

- Sociedad Argentina Interplanetaria (Argentina)
- Österreichische Gesellschaft für Weltraumforschung (Austria)
- Dansk Selskab for Rumfartsforskning (Denmark)
- Groupement Astronautique Français (France)
- Gesellschaft für Weltraumforschung-Hamburg (Germany)
- Gesellschaft für Weltraumforschung-Stuggart (Gemany)
- Associazione Italiana Razzi (Italy)
- Asociación Española de Astronautica (Spain)
- Svenska Interplanetariska Sällskapet (Sweden)
- Schweizerische Astronautische Arbeitsgemeinschaft (Switzerland)
- British Interplanetary Society (United Kingdom)
- American Rocket Society (United States)
- Detroit Rocket Society (United States)
- Pacific Rocket Society (United States)
- Reaction Research Society (United States)



**1951.** The first Constitution of the IAF is written



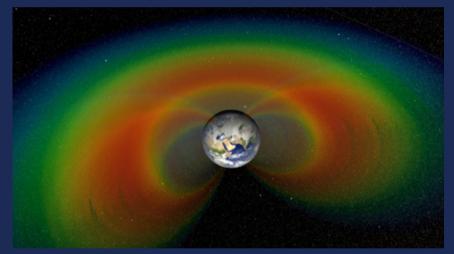
**1956.** A visit of Pope Pius XII at the IAC 1956 in Rome, Italy



**1957.** Sputnik I becomes the first artificial satellite in space





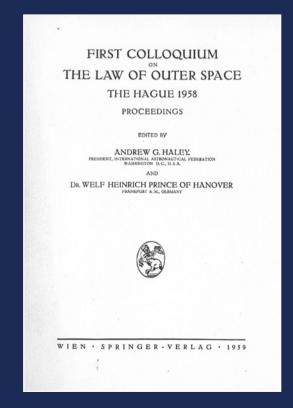


(Photo credit: NASA)

1958. The IAF creates its Space Law Committee



(Photo credit: GEO Magazine)



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(Photo credit: Pro Cosmos)



**1958.** U.S. President Eisenhower establishes the National Aeronautics and Space Administration (NASA)

**1959.** The satellite Explorer VI takes the first photograph of Earth from orbit



(Photo credit: Research Gate)

## International Astronautical Congresses:

- 1950 1<sup>st</sup> IAC, Paris, France (1 2 October 1950)
- 1951 2<sup>nd</sup> IAC, London, United Kingdom (3 8 September 1951)
- 1952 3<sup>rd</sup> IAC, Stuttgart, Germany (1 5 September 1952)
- 1953 4<sup>th</sup> IAC, Zurich, Switzerland (3 8 August 1953)
- 1954 5<sup>th</sup> IAC, Innsbruck, Austria (2 7 August 1954)
- 1955 6<sup>th</sup> IAC, Copenhagen, Denmark (2 6 August 1955)
- 1956 7<sup>th</sup> IAC, Rome, Italy (17 22 September 1956)
- 1957 8<sup>th</sup> IAC, Barcelona, Spain (6 12 October 1957)
- 1958 9<sup>th</sup> IAC, Amsterdam, The Netherlands (25 30 August 1958)
- 1959 10<sup>th</sup> IAC, London, United Kingdom (31 August 5 September 1959)

1959. IAF membership reaches 37 members



**1960.** The IAC Technical Sessions got divided by symposia





**1960.** The International Academy of Astronautics (IAA) is founded as part of the International Astronautical Federation (IAF)





(Photo credit: ESA)

1960s

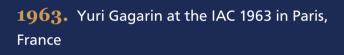
33

**1961.** The first IAF Bureau Meeting and first IAF International Programme Committee (IPC) meeting



(Photo credit: ESA)

1963. USSR Cosmonaut Valentina Tereshkova becomes the first woman to travel into space







1963. The IAF organizes its first Education Symposium giving birth to the IAF Education Committee

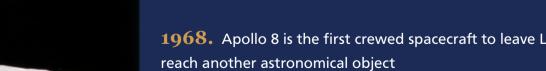


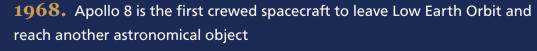
(Photo credit: Air & Space)

1965. USSR Cosmonaut Alexei Leonov completes the first ever spacewalk

1967. The IAF General Assembly passes a resolution affirming the 4 October 1957 as the official date of the beginning of the Space Age







(Photo credit: NASA)



1968. Wernher Von Braun at the IAC 1968 in New York



**1969.** 600 million people are watching live Apollo 11's crew landing on the Moon



(Photo credit: WNYC)

**1969.** The United Nations Secretary General U Thant invites the IAF to participate at the United Nations space deliberations



International Astronautical Congresses:

- 1960 11<sup>th</sup> IAC, Stockholm, Sweden (7 12 October 1960)
- 1961 12<sup>th</sup> IAC, Washington, United States (1 7 October 1961) *First IAC outside Europe*
- 1962 13<sup>th</sup> IAC, Varna, Bulgaria (19 23 September 1962) *First IAC in an Eastern European country*
- 1963 14<sup>th</sup> IAC, Paris, France (25 September 1 October 1963)
- 1964 15<sup>th</sup> IAC, Warsaw, Poland (7 12 September 1964)
- 1965 16<sup>th</sup> IAC, Athens, Greece (13 18 October 1965)
- 1966 17<sup>th</sup> IAC, Madrid, Spain (9 15 October 1966)
- 1967 18<sup>th</sup> IAC, Belgrade, Yugoslavia (24 30 September 1967)
- 1968 19<sup>th</sup> IAC, New York, United States (13 18 October 1968)
- 1969 20<sup>th</sup> IAC, Mar de Plata, Argentina (5 10 October 1969)

**1969.** IAF membership reaches **55** members





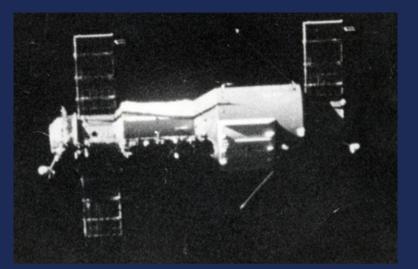
(Photo credit: Futura Sciences)

**1970.** USSR Lunokhod 1 becomes the first of two robotic lunar rovers landing on the Moon



**1971.** The IAF becomes observer in the Scientific and Technical Subcommittee of the United Nations COPUOS

1970s 1970s



**1971.** The first orbital station in history, Salyut 1, is launched



(Photo credit: NASA)

**1973.** The first general theme of an IAC: "Space Activity Impact on Science and Technology"



1974. First IAF Student Award



(Photo credit: ESA)



1975. The European Space Agency (ESA) is created

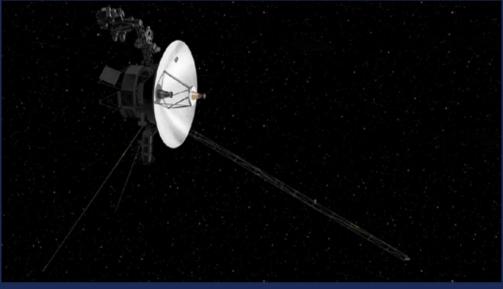




(Photo credit: Radio France Internationale)



1977. The US space probe Voyager 1 is launched



(Photo credit: NASA JPL)



1979. The first logo and seal of the IAF are established

## International Astronautical Congresses:

- 1970 21<sup>st</sup> IAC, Constance, Germany (4 9 October 1970)
- 1971 22<sup>nd</sup> IAC, Brussels, Belgium (20 25 September 1971)
- 1972 23<sup>rd</sup> IAC, Vienna, Austria (8 15 October 1972)
- 1973 24<sup>th</sup> IAC, Baku, USSR (7 13 October 1973)
- 1974 25<sup>th</sup> IAC, Amsterdam, The Netherlands (30 September 5 October 1974)
- 1975 26<sup>th</sup> IAC, Lisbon, Portugal (21 27 September 1975)
- 1976 27<sup>th</sup> IAC, Anaheim, United States (10 16 October 1976)
- 1977 28<sup>th</sup> IAC, Prague, Czechoslovakia (25 September 1 October 1977)
- 1978 29<sup>th</sup> IAC, Dubrovnik, Yugoslavia (1 8 October 1978)
- 1979 30<sup>th</sup> IAC, Munich, Germany (17 22 September 1979)

1979. IAF membership reaches 58 members

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**1980.** The IAC takes place in Asia for the first time (Tokyo, Japan)



(Photo credit: NASA)



**1981.** NASA starts the Space Shuttle Programme with the launch of the Columbia orbiter



1982. The International Academy of Astronautics (IAA) takes independency from the International Astronautical Federation (IAF)

**1984.** US Astronaut Bruce McCandless II becomes the first man to perform an untethered spacewalk



(Photo credit: New Mexico Museum of Space History)



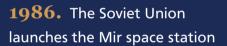
(Photo credit: NASA)





(Photo credit: Britannica)

**1985.** The United Nations Secretary General Javier Pèrez de Cuèllar delivers a message to the IAF General Assembly live from New York via satellite





(Photo credit: Roscosmos)



**1986.** The first IAF Frank J. Malina Astronautics Medal is awarded

**1986.** The space probe Vega 1 performs the first flyby of a comet (Halley's Comet)







(Photo credit: Roscosmos)



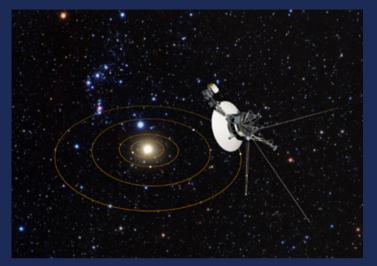
1988. The IAF reaches 100 members

## International Astronautical Congresses:

- 1980 31st IAC, Tokyo, Japan (22 28 September 1980) First IAC in Asia
- 1981 32<sup>nd</sup> IAC, Rome, Italy (6 12 September 1981)
- 1982 33<sup>rd</sup> IAC, Paris, France (27 September 2 October 1982)
- 1983 34th IAC, Budapest, Hungary (10 15 October 1983)
- 1984 35th IAC, Lausanne, Switzerland (8 13 October 1984)
- 1985 36th IAC, Stockholm, Sweden (7 12 October 1985)
- 1986 37th IAC, Innsbruck, Austria (4 11 October 1986)
- 1987 38<sup>th</sup> IAC, Brighton, United Kingdom (10 17 October 1987)
- 1988 39<sup>th</sup> IAC, Bangalore, India (8 15 October 1988)
- 1989 40<sup>th</sup> IAC, Malaga, Spain (7 13 October 1989)

1989. IAF membership reaches 104 members





(Photo credit: NASA)

**1990.** The space probe Voyager 1 takes the first photo of the whole solar system



(Photo credit: ESA)





**1991.** The IAF/UN workshop takes place for the first time

1990s 1990s



1992. The IAC is jointly organized between IAF and COSPAR at the occasion of the International Space Year in Washington, D.C., United States



**1993.** The full constellation of twenty-four satellites of the Global Positioning System (GPS) is operational

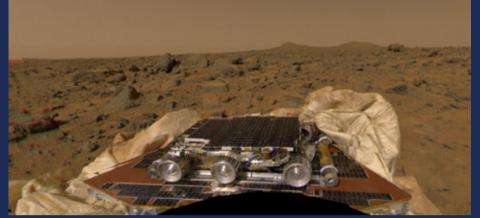


(Photo credit: ESA)



1995. Russian Cosmonaut Valeri Polyakov sets the record of the longest spaceflight (437.7 days)





(Photo credit: NASA)



**1997.** The first major exhibition at the IAC in Turin, Italy



1998. The IAC is held in Oceania for the first time (Melbourne, Australia)

1998. The International Space Station (ISS) is launched



(Photo credit: ESA)





**1999.** IAF contributes to the United Nations Space Conference UNISPACE III



## International Astronautical Congresses:

- 1990 41<sup>st</sup> IAC, Dresden, Germany (6 12 October 1990)
- 1991 42<sup>nd</sup> IAC, Montreal, Canada (5 11 October 1991)
- 1992 43<sup>rd</sup> IAC, Washington, D.C., United States (28 August 5 September 1992)
- 1993 44<sup>th</sup> IAC, Graz, Austria (16 22 October 1993)
- 1994 45<sup>th</sup> IAC, Jerusalem, Israel (9 14 October 1994) *First IAC in Middle East*
- 1995 46<sup>th</sup> IAC, Oslo, Norway (2 6 October 1995)
- 1996 47<sup>th</sup> IAC, Beijing, China (7 11 October 1996)
- 1997 48<sup>th</sup> IAC, Turin, Italy (6 10 October 1997)
- 1998 49<sup>th</sup> IAC, Melbourne, Australia (28 September 2 October 1998) *First IAC in Oceania*
- 1999 50<sup>th</sup> IAC, Amsterdam, The Netherlands (4 8 October 1999)

1999. IAF membership reaches 152 members

53



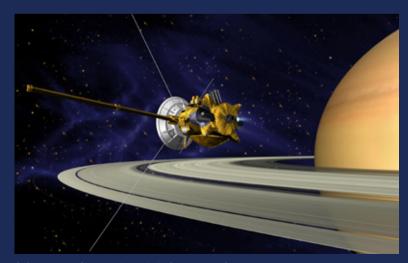
## 20005



(Photo credit: The Hindu)

**2001.** NEAR Shoemaker is the first space probe to land on an asteroid (433 Eros)





(Photo credit : Université de Nantes)

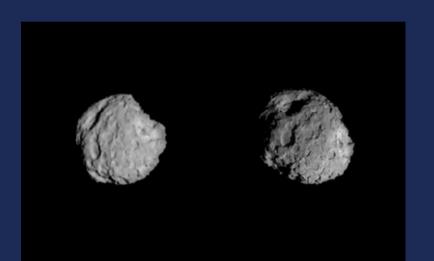


**2004.** Cassini-Huygens becomes the first space probe to enter Saturn's orbit

3<del>4</del>

**2004.** The Space Generation Advisory Council (SGAC) becomes a member of the IAF



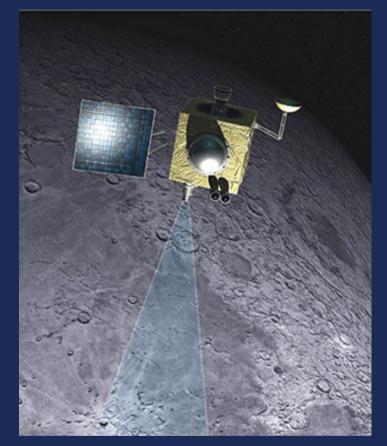


(Photo credit: The Planetary Society)

**2006.** The space probe Stardust returns to Earth the first samples of a comet (81P/Wild)

**2007.** The WD/YPP Committee is created





(Photo credit: ESA)

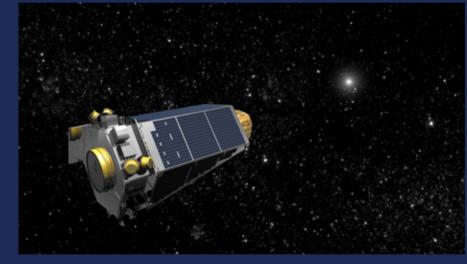
**2008.** ISRO's Chandrayaan-1 discovers water on the Moon



**2008.** The IAF creates the Emerging Space Leaders (ESL) Grants Programme



**2008.** The IAF announces its vision "A Space Faring World Cooperating for the Benefit of Humankind"



**2009.** Kepler telescope is launched to search for Earth-like exoplanets



(Photo credit: NASA)





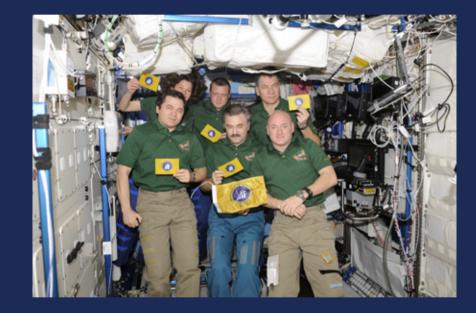
### International Astronautical Congresses:

- 2000 51st IAC, Rio de Janeiro, Brazil (2-6 October 2000)
- 2001 52<sup>nd</sup> IAC, Toulouse, France (1-5 October 2001)
- 2002 53<sup>rd</sup> IAC, Houston, United States (10-19 October 2002)
- 2003 54th IAC, Bremen, Germany (29 September 3 October 2003)
- 2004 55<sup>th</sup> IAC, Vancouver, Canada (4-8 October 2004)
- 2005 56th IAC, Fukuoka, Japan (16-21 October 2005)
- 2006 57<sup>th</sup> IAC, Valencia, Spain (2-6 October 2006)
- 2007 58th IAC, Hyderabad, India (24-28 September 2007)
- 2008 59<sup>th</sup> IAC, Glasgow, United Kingdom (29 September 3 October 2008)
- 2009 60<sup>th</sup> IAC, Daejeon, Republic of Korea (12-16 October 2009)

1999. IAF membership reaches 195 members



**2010.** The IAF launches the series of Global Conferences (GLUC 2010, Beijing, China)





**2011.** The IAF 60<sup>th</sup> Anniversary flag goes into space [Soyuz TMA-20 (2010), ISS (2010-2011), Endeavour STS-134 (2011), Tiangong 1 (2011), Shenzhou 9 (2012)]



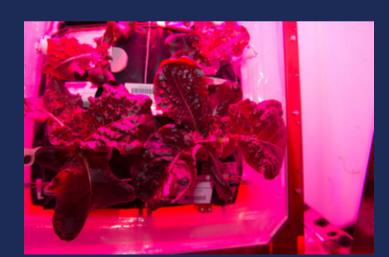
**2012.** The IAF reaches 200 members



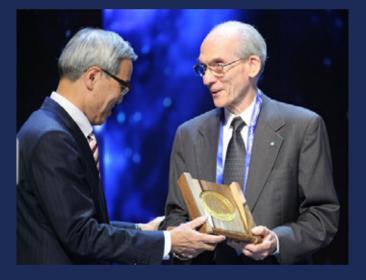


**2012.** The IAF launches the Global Networking Forum (GNF) at the IAC in Naples, Italy

**2013.** The first IAF World Space Award is presented to Edward Stone at the IAC in Beijing, China



(Photo credit: The Washington Post)



**2015.** The first food grown in space (a lettuce) is consumed



**2015.** The IAF reaches 300 members





(Photo credit: Space News)

**2015.** SpaceX's Falcon 9 performs the first propulsive landing of an orbital rocket



(Photo credit: ESA)

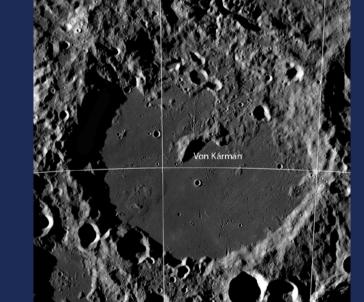


**2015.** The first IAF Interactive Presentations Session at the IAC in Jerusalem, Israel



**2016.** The IAF launches the "3G" Diversity Initiative and "IDEA" Platform at the IAC in Guadalajara, Mexico





**2019.** China's lunar rover Chang'e 4 performs the first landing on the far side of the Moon

(Photo credit: Lunar and Planetary Institute)
65



**2018.** The IAF Secretariat moves to its current independent office at 100 Avenue de Suffren in Paris



(Photo credit: NASA)

**2019.** NASA's Event Horizon Telescope takes the first direct photograph of a black hole and its vicinity



**2019.** Pascale Ehrenfreund becomes the first female IAF President at the IAC in Washington, D.C., United States

### International Astronautical Congresses:

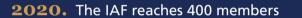
- 2010 61st IAC, Prague, Czech Republic (27 September 1 October 2010)
- 2011 62<sup>nd</sup> IAC, Cape Town, South Africa (3-7 October 2011)
- 2012 63<sup>rd</sup> IAC, Naples, Italy (1-5 October 2012)
- 2013 64<sup>th</sup> IAC, Beijing, China (23-27 September 2013)
- 2014 65<sup>th</sup> IAC, Toronto, Canada (29 September 3 October 2014)
- 2015 66<sup>th</sup> IAC, Jerusalem, Israel (12-16 October 2015)
- 2016 67<sup>th</sup> IAC, Guadalajara, Mexico (26-30 September 2016)
- 2017 68<sup>th</sup> IAC, Adelaide, Australia (25-29 September 2017)
- 2018 69<sup>th</sup> IAC, Bremen, Germany (1–5 October 2018)
- 2019 70th IAC, Washington, United States (21-25 October 2019)

2019. IAF membership reaches 397 members





**2020.** The IAF organizes the first virtual IAC "The CyberSpace Edition" during the COVID-19 outbreak







**2020.** SpaceX Crew-1 is the first operational mission to the International Space Station (ISS) in the US Commercial Crew Program

(Photo credit: NASA)

**2020s** 

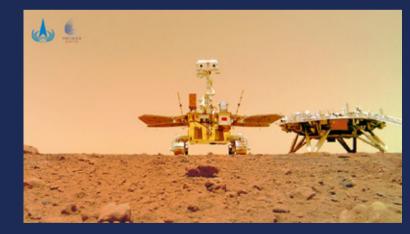
# **2020s**



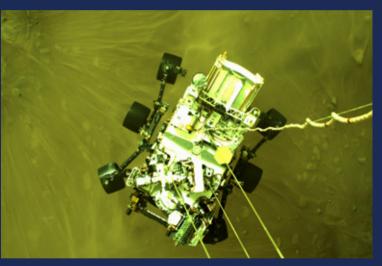
**2021.** The United Arab Emirates orbiter Hope enters the Mars orbit



**2021.** The United States rover Perseverance and the robotic helicopter Ingenuity land on Mars



(Photo credit: CNSA)



(Photo credit: NASA)

**2021.** China's rover Zhurong lands on Mars



(Photo credit: SPACE.com)

**2021.** Virgin Galactic launches the space plane Unity for its first fully crewed rocket powered flight

**2021.** The IAF launches the Excellence in International Cooperation Award at the IAC 2021 in Dubai, UAE



2020s

**2021.** Blue Origin NS-16 is the first crewed flight of the New Shepard integrated launch vehicle and spacecraft



(Photo credit: Spacelaunchnow)



(Photo credit: Spaceflight Insider)

**2021.** Roscosmos launches the Soyuz MS-19 mission with Russian film crew, this is the first movie shot in space

# International Astronautical Congresses:

- 2020 71st IAC, The CyberSpace Edition (12-14 October 2020)
- 2021 72<sup>nd</sup> IAC, Dubai, United Arab Emirates (25-29 October 2021) first IAC in an Arab country
- 2022 73<sup>rd</sup> IAC, Paris, France (18-22 September 2022)
- 2023 74<sup>th</sup> IAC, Baku, Azerbaijan (2-6 October 2023)
- 2024 75<sup>th</sup> IAC, Milan, Italy (14-18 October 2024)

**2021.** IAF membership reaches **433** members

# **IAF Presidents**

# **IAF Vice Presidents**



- Dr. Eugen Sänger (1951-1952) & (1952-1953)
- Mr. Frederick C. Durant (1953-1954) & (1954-1955)
- Mr. A.G. Haley (1955-1956)
- Dr. Leslie R. Shepherd (1956-1957)
- Mr. A.G. Haley (1957-1958) & (1958-1959)
- **Prof. Leonid I. Sedov** (1959-1960) & (1960-1961)
- Prof. Joseph Pérès (1961-1962)
- Dr. Leslie R. Shepherd (1962)
- Prof. Edmond A. Brun (1962-1963) & (1963-1964)
- Dr. William H. Pickering (1964-1965) & (1965-1966)
- **Prof. Luigi G. Napolitano** (1966-1967) & (1967-1968)
- Prof. Elie Carafoli (1968-1969) & (1969-1970)
- Prof. André Jaumotte (1970-1971) & (1971-1972)
- Prof. Luigi G. Napolitano (1972-1973) & (1973-1974)
- Mr. Leonard Jaffe (1974-1975), (1975-1976) & (1976-1977)
- Mr. Marcel Barrère (1977-1978)

- Mr. Roy Gibson (1978-1979) & (1979-1980)
- Dr. Lubos Perek (1980-1981) & (1981-1982)
- Mr. Roger Chevalier (1982-1983) & (1983-1984)
- Dr. Jerry Grey (1984-1985) & (1985-1986)
- Dr. Johannes Ortner (1986-1987) & (1987-1988)
- Dr. George P. Van Reeth (1988-1989) & (1989-1990)
- Dr. Alvaro Azcarraga (1990-1992) & (1992-1994)
- Dr. Karl H. Doetsch (1994-1996) & (1996-1998)
- Dr. Tomifumi Godai (1998-2000)
- Mr. Marcio Nogueira Barbosa (2000-2002) & (2002-2004)
- Mr. James Zimmerman (2004-2006) & (2006-2008)
- Prof. Dr. Berndt Feuerbacher (2008-2010) & (2010-2012)
- Mr. Kiyoshi Higuchi (2012-2014) & (2014-2016)
- Mr. Jean-Yves Le Gall (2016-2019)
- Prof. Pascale Ehrenfreund (2019-2022)
- Mr. Clay Mowry (Incoming President 2022-2025)

### 1951/1952

- Eugen Sänger President
- Andrew G. Haley Vice President
- G. Loeser Vice President
- Joseph Stemmer Honorary Secretary and Executive Secretary

#### 1952/1953

- Eugen Sänger President
- Andrew G. Haley Vice President
- L.R. Shepherd Vice President
- **G. Loeser** Honorary Vice President
- Joseph Stemmer Honorary Secretary and Executive Secretary

# 1953/1954

- Frederick C. Durant President
- Andrew G. Haley Vice President
- F. Hecht Vice President
- Joseph Stemmer Honorary Secretary and Executive Secretary

# 1954/1955

- Frederick C. Durant President
- E. Buch-Anderson Vice President
- T.M. Tabanera Vice President
- Joseph Stemmer Honorary Secretary and Executive Secretary

#### 1955/1956

- Andrew G. Haley President
- G.A. Crocco Vice President
- T.M. Tabanera Vice President
- Joseph Stemmer Honorary Secretary and Executive Secretary

### 1956/1957

- Leslie R. Shepherd President
- G.P. Bergeron Vice President
- Frederick C. Durant Vice President
- J. Marial Vice President
- T.M. Tabanera Vice President
- Leonid I. Sedov Vice President
- **Joseph Stemmer** Honorary Secretary and Executive Secretary

#### 1957/1958

- Andrew G. Haley President
- A. Hjerstrand Vice President
- J.M.J. Kooy Vice President
- Leonid I. Sedov Vice President
- L.R. Shepherd Vice President
- T.M. Tabanera Vice President
- K. Zarankiewicz Vice President
- Joseph Stemmer Honorary Secretary and Executive Secretary

# **IAF Vice Presidents**



#### 1958/1959

- Andrew G. Haley President
- G.P. Bergeron Vice President
- Eugen Sänger Vice President
- Leonid I. Sedov Vice President
- L.R. Shepherd Vice President
- T.M. Tabanera Vice President
- K. Zarankiewicz Vice President
- Joseph Stemmer Honorary Secretary and Executive Secretary

### 1959/1960

- Leonid I. Sedov President
- G.P. Bergeron Vice President
- A. Hjertstrand Vice President
- Eugen Sänger Vice President
- J.P. Stapp Vice President
- L.R. Shepherd Vice President
- Joseph Stemmer Honorary Secretary and Executive Secretary
- Theodore von Karman IAA President

### 1960/1961

- Leonid I. Sedov President
- G.P. Bergeron Vice President
- A. Hjertstrand Vice President
- Eugen Sänger Vice President
- J.P. Stapp Vice President

- L.R. Shepherd Vice President
- Joseph Stemmer Honorary Secretary and Executive Secretary
- Theodore von Karman IAA President
- Michel S. Smirnoff IISL President

#### 1961/1962

- Joseph Pérès President
- L.R. Shepherd Vice President
- N. Boneff Vice President
- William H. Pickering Vice President
- L.R. Shepherd Vice President
- T.M. Tabanera Vice President
- Edmond A. Brun Vice President
- Andrew G. Haley General Counsel
- Joseph Stemmer Honorary Secretary and Executive Secretary
- Theodore von Karman IAA President
- John Cobb Copper IISL President

# 1962/1963

- Edmond A. Brun President
- N. Boneff Vice President
- M. Lunc Vice President
- **Leonid I. Sedov** Vice President
- M. Summerfield Vice President
- Andrew G. Haley General Counsel
- Richard Greinacher Honorary Secretary

- W. F. Hilton Executive Secretary
- Theodore von Karman IAA President
- John Cobb Copper IISL President

### 1963/1964

- Edmond A. Brun President
- M. Lunc Vice President
- M. Nicolet Vice President
- William H. Pickering Vice President
- L.I. Sedoy Vice President
- Andrew G. Haley General Counsel
- Richard Greinacher Honorary Secretary
- W. F. Hilton Executive Secretary
- Frank J. Malina IAA President, succeeded by Charles Draper in 1963
- Eugène Pépin IISL President

### 1964/1965

- William H. Pickering President
- M. Lunc Vice President
- M. Nicolet Vice President
- R. Pesek Vice President
- Leonid I. Sedov Vice President
- Andrew G. Haley General Counsel
- Richard Greinacher Honorary Secretary
- Helene Van Gelder Executive Secretary

- Charles Draper IAA President
- Eugène Pépin IISL President

# 1965/1966

- William H. Pickering President
- A. Eula Vice President
- M. Lunc Vice President
- R. Pesek Vice President
- Leonid I. Sedov Vice President
- Andrew G. Haley General Counsel
- Richard Greinacher Honorary Secretary
- Helene Van Gelder Executive Secretary
- Charles Draper IAA President
- Eugène Pépin IISL President

# 1966/1967

- Luigi G. Napolitano President
- Elie Carafoli Vice President
- H.H. Koelle Vice President
- M. Lunc Vice President
- Leonid I. Sedov Vice President
- Andrew G. Haley General Counsel
- Richard Greinacher Honorary Secretary
- **Helene Van Gelder** Executive Secretary
- Charles Draper IAA President
- Eugène Pépin IISL President

# **IAF Vice Presidents**



#### 1967/1968

- L.G. Napolitano, President
- T. Andjelic, Vice President
- E. Carafoli, Vice President
- H.H. Koelle, Vice President
- L.I. Sedov, Vice President

# 1968/1969

- Luigi G. Napolitano President
- T. Andjelic Vice President
- Elie Carafoli Vice President
- H.H. Koelle Vice President
- Leonid I. Sedov Vice President
- Vladimir Kopal General Counsel
- Richard Greinacher Honorary Secretary
- Helene Van Gelder Executive Secretary
- Charles Draper IAA President
- Eugène Pépin IISL President

### 1969/1970

- Elie Carafoli President
- T. Andjelic Vice President
- R. Bisplinghoff Vice President
- Leonid I. Sedov Vice President
- T.M. Tabanera Vice President

- Vladimir Kopal General Counsel
- Richard Greinacher Honorary Secretary
- Helene Van Gelder Executive Secretary
- Charles Draper IAA President
- Eugène Pépin IISL President

### 1970/1971

- Elie Carafoli President
- André Jaumotte Vice President
- G.E. Mueller Vice President
- Leonid I. Sedov Vice President
- T.M. Tabanera Vice President
- Vladimir Kopal General Counsel
- Richard Greinacher Honorary Secretary
- Helene Van Gelder Executive Secretary
- Charles Draper IAA President
- Eugène Pépin IISL President

### 1971/1972

- André Jaumotte President
- G.E. Mueller Vice President
- H.G.S. Murthy Vice President
- Luigi G. Napolitano Vice President
- Leonid I. Sedov Vice President
- Vladimir Kopal General Counsel
- Richard Greinacher Honorary Secretary

- Helene Van Gelder Executive Secretary
- Charles Draper IAA President
- Eugène Pépin IISL President

### 1972/1973

- Luigi G. Napolitano President
- Marcel Barrère Vice President
- W. Fiszdon Vice President
- Leonard Jaffe Vice President
- Leonid I. Sedoy Vice President
- Vladimir Kopal General Counsel
- Richard Greinacher Honorary Secretary
- Helene Van Gelder Executive Secretary
- Charles Draper IAA President
- Eugène Pépin IISL President

### 1973/1974

- Luigi G. Napolitano President
- Marcel Barrère Vice President
- W. Fiszdon Vice President
- **Leonard Jaffe** Vice President
- Leonid I. Sedov Vice President
- Vladimir Kopal General Counsel
- Richard Greinacher Honorary Secretary
- Helene Van Gelder Executive Secretary

- Charles Draper IAA President
- Isabella H. Diederiks-Verschoor IISL President

# 1974/1975

- Leonard Jaffe President
- Marcel Barrère Vice President
- W. Fiszdon Vice President
- E.M. Knoernschild Vice President
- G. Marx Vice President
- Leonid I. Sedov Vice President
- Vladimir Kopal General Counsel
- Richard Greinacher Honorary Secretary
- Helene Van Gelder Executive Secretary
- Charles Draper IAA President
- Isabella H. Diederiks-Verschoor IISL President

### 1975/1976

- Leonard Jaffe President
- Marcel Barrère Vice President
- W. Fiszdon Vice President
- E.M. Knoernschild Vice President
- G. Marx Vice President
- Leonid I. Sedov Vice President
- Vladimir Kopal General Counsel
- Richard Greinacher Honorary Secretary

# **IAF Vice Presidents**



- Helene Van Gelder Executive Secretary
- Charles Draper IAA President
- Isabella H. Diederiks-Verschoor IISL President

#### 1976/1977

- Leonard Jaffe President
- Marcel Barrère Vice President
- W. Fiszdon Vice President
- E.M. Knoernschild Vice President
- G. Marx Vice President
- Leonid I. Sedov Vice President
- Vladimir Kopal General Counsel
- Richard Greinacher Honorary Secretary
- Helene Van Gelder Executive Secretary
- Charles Draper IAA President
- Isabella H. Diederiks-Verschoor IISL President

### 1977/1978

- Marcel Barrère President
- T. Andielic Vice President
- A. Jaumotte Vice President
- R. Pesek Vice President
- S. Saito Vice President
- Leonid I. Sedov Vice President
- Vladimir Kopal General Counsel
- Richard Greinacher Honorary Secretary

- Helene Van Gelder Executive Secretary
- Charles Draper IAA President
- Isabella H. Diederiks-Verschoor IISL President

#### 1978/1979

- Roy Gibson President
- Jerry Grey Vice President
- E. Hollax Vice President
- R. Monti Vice President
- S. Saito Vice President
- Leonid I. Sedov Vice President
- Vladimir Kopal General Counsel
- Richard Greinacher Honorary Secretary
- Helene Van Gelder Executive Secretary
- Charles Draper IAA President
- Isabella H. Diederiks-Verschoor IISL President

### 1979/1980

- Roy Gibson President
- Jerry Grey Vice President
- E. Hollax Vice President
- R. Monti Vice President
- S. Saito Vice President
- Leonid I. Sedov Vice President
- Vladimir Kopal General Counsel
- Richard Greinacher Honorary Secretary

- Helene Van Gelder Executive Secretary
- Charles Draper IAA President
- Isabella H. Diederiks-Verschoor IISL President

#### 1980/1981

- Lubos Perek President
- Roger Chevalier Vice President
- Jerry Grey Vice President
- D.N. Mishev Vice President
- R. Monti Vice President
- D. Mori Vice President
- Vladimir Kopal General Counsel
- Richard Greinacher Honorary Secretary
- Michèle Pigé-Claudin Executive Secretary
- Charles Draper IAA President
- Isabella H. Diederiks-Verschoor IISL President

# 1981/1982

- Lubos Perek President
- Roger Chevalier Vice President
- Jerry Grey Vice President
- D.N. Mishev Vice President
- R. Monti Vice President
- Vladimir Kopal General Counsel
- Richard Greinacher Honorary Secretary
- Michèle Pigé-Claudin Executive Secretary

- Charles Draper IAA President
- Isabella H. Diederiks-Verschoor IISL President

# 1982/1983

- Roger Chevalier President
- Almar Vice President
- W. Buedeler Vice President
- Jerry Grey Vice President
- **D. Mori** Vice President
- Rychlewski Vice President
- Vladimir Kopal General Counsel
- Richard Greinacher Honorary Secretary
- Michèle Pigé-Claudin Executive Secretary
- Isabella H. Diederiks-Verschoor IISL President

# 1983/1984

- Roger Chevalier President
- Almar Vice President
- W. Buedeler Vice President
- Jerry Grey Vice President
- R. Sunaryo Vice President
- Yang Jia Chi Vice President
- Vladimir Kopal General Counsel
   Richard Greinacher Honorary Secretary
- Michèle Pigé-Claudin Executive Secretary
- Isabella H. Diederiks-Verschoor IISL President

# **IAF Vice Presidents**



#### 1984/1985

- Jerry Grey President
- G.G. Chernyi Vice President
- R. Joachim Vice President
- R. Sunaryo Vice President
- George P. Van Reeth Vice President
- Yang Jia Chi Vice President
- Vladimir Kopal General Counsel
- Richard Greinacher Honorary Secretary
- Michèle Pigé-Claudin Executive Secretary
- Isabella H. Diederiks-Verschoor IISL President

#### 1985/1986

- Jerry Grey President
- G.G. Chernyi Vice President
- R. Joachim Vice President
- U.R. Rao Vice President
- George P. Van Reeth Vice President
- Yang Jia Chi Vice President
- Vladimir Kopal General Counsel
- Richard Greinacher Honorary Secretary
- Michèle Pigé-Claudin Executive Secretary
- George E. Mueller IAA President
- Isabella H. Diederiks-Verschoor IISL President

### 1986/1987

- Johannes Ortner President
- G.G. Chernyi Vice President
- R. Joachim Vice President
- U.R. Rao Vice President
- George P. Van Reeth Vice President
- Yang Jia Chi Vice President
- Vladimir Kopal General Counsel
- Federico Casal Honorary Secretary
- Michèle Pigé-Claudin Executive Secretary
- George E. Mueller IAA President
- Isabella H. Diederiks-Verschoor IISL President

### 1987/1988

- Johannes Ortner President
- G.G. Chernyi Vice President
- R. Joachim Vice President
- Lu Yuanjiu Vice President
- U.R. Rao Vice President
- George P. Van Reeth Vice President
- Vladimir Kopal General Counsel
- Federico Casal Honorary Secretary
- Michèle Pigé-Claudin Executive Secretary
- George E. Mueller IAA President
- Isabella H. Diederiks-Verschoor IISL President

### 1988/1989

- George P. Van Reeth President
- Alvaro Azcarraga Vice President
- G.G. Chernyi Vice President
- J.J. Harford Vice President
- R. Joachim Vice President
- Lu Yuanjiu Vice President
- U.R. Rao Vice President
- Vladimir Kopal General Counsel
- Federico Casal Honorary Secretary
- Michèle Pigé-Claudin Executive Secretary
- George E. Mueller IAA President
- Isabella H. Diederiks-Verschoor IISL President

# 1989/1990

- George P. Van Reeth President
- Alvaro Azcarraga Vice President
- J.J. Harford Vice President
- R. Joachim Vice President
- Lu Yuanjiu Vice President
- U.R. Rao Vice President
- Y.S. Ryazantsev Vice President
- Vladimir Kopal General Counsel
- Federico Casal Honorary Secretary
- Michèle Pigé-Claudin Executive Secretary

- George E. Mueller IAA President
- Isabella H. Diederiks-Verschoor IISL President

# 1990/1992

- Alvaro Azcarraga President
- Chen Fang-Yun Vice President
- A.A. Cocca Vice President
- D.A. Fester Vice President
- Tomifumi Godai Vice President
- R. Joachim Vice President
- R. Monti Vice President
- U.R. Rao Vice President
- Y.S. Ryazantsev Vice President
- Vladimir Kopal General Counsel
- Federico Casal Honorary Secretary
- Michèle Pigé-Claudin Executive Secretary
- George E. Mueller IAA President
- Manfred Lachs IISL President

### 1992/1994

- Alvaro Azcarraga President
- Chen Fang-Yun Vice President
- A.A. Cocca Vice President
- Karl H. Doetsch Vice President
- D.A. Fester Vice President

# **IAF Vice Presidents**



- Tomifumi Godai Vice President
- H.E.W. Hoffmann Vice President
- R. Monti Vice President
- V.A. Sarychev Vice President
- Vladimir Kopal General Counsel
- Federico Casal Honorary Secretary
- Michèle Pigé-Claudin Executive Secretary
- George E. Mueller IAA President
- Manfred Lachs IISL President

### 1994/1996

- Karl H. Doetsch President
- M.G. Chandrasekhar Vice President
- **G. Gustaferro** Vice President replaced by **J. Fabian** (USA) in 1995
- Tomifumi Godai Vice President
- H.E.W. Hoffmann Vice President
- Liang Si Li Vice President
- M. Orrico Alarcon Vice President
- J.C. Poggi Vice President
- V.A. Sarychev Vice President
- Vladimir Kopal General Counsel
- Federico Casal Honorary Secretary
- Michèle Pigé-Claudin Executive Secretary, succeeded by Betty Woessner in 1995
- George E. Mueller IAA President

• Nandasir Jasentuliyana - IISL President

#### 1996/1998

- Karl H. Doetsch President
- M.G. Chandrasekhar Vice President
- J. Fabian Vice President
- Liang Si Li Vice President
- Hiroki Matsuo Vice President
- M. Orrico Alarcon Vice President
- J.C. Poggi Vice President
- G.A. Popov Vice President
- H.J. Rath Vice President
- Vladimir Kopal General Counsel
- Federico Casal Honorary Secretary
- Claude Gourdet Executive Director
- George E. Mueller IAA President, succeeded by Michael Yarymovych in 1997
- Nandasir Jasentuliyana IISL President

# 1998/2000

- Tomifumi Godai President
- A.D. Aldrich Vice President
- Barros de Melo Vice President
- Chen Huaijin Vice President
- **Geir Hovmork** Vice President

- R. Sridhara Murthy Vice President
- G.A. Popov Vice President
- Rosa Maria Ramirez de Arellano y Haro Vice President
- H.J. Rath Vice President
- Vladimir Kopal General Counsel
- Federico Casal Honorary Secretary
- Claude Gourdet Executive Director
- Michael Yarymovych IAA President
- Nandasir Jasentuliyana IISL President

### 2000/2002

- Marcio Nogueira Barbosa President
- Tomifumi Godai President
- A.D. Aldrich Vice President
- Oleg M. Alifanov Vice President
- Chen Huaijin Vice President
- Jean-Jacques Dordain Vice President
- **Geir Hovmork** Vice President
- Rosa Maria Ramirez de Arellano y Haro Vice President
- K.R. Sridhara Murthi Vice President
- Martin N. Sweeting Vice President
- Vladimir Kopal General Counsel
- Federico Casal Honorary Secretary
- Claude Gourdet Executive Director
- Michael Yarymovych IAA President
- Nandasir Jasentuliyana IISL President

# 2002/2004

- Marcio Nogueira Barbosa President
- Tomifumi Godai President
- Oleg M. Alifanov Vice President
- Klaus Berg Vice President
- Jean-Jacques Dordain Vice President
- Driss El Hadani Vice President
- Geir Hovmork Vice President
- Rosa Maria Ramirez de Arellano y Haro Vice President
- Mukund Rao Vice President
- Martin N. Sweeting Vice President
- Stuart Thomson Vice President
- Yuan Jia-Jun Vice President
- Vladimir Kopal General Counsel
- Federico Casal Honorary Secretary
   Yves Beguin Executive Director
- Edward Stone IAA President
- Nandasiri Jasentuliyana IISL President

### 2004/2006

- James Zimmerman President
- Marcio Nogueira Barbosa Past President
- Klaus Berge Vice President
- Anatoly I. Grigoriev Vice President
- Virendra K. Jha Vice President
- Anne-Marie Mainguy Vice President

# **IAF Vice Presidents**



- Yasunori Matogawa Vice President
- Robert C. Parkinson Vice President
- Mukund Rao Vice President
- Victor Reglero Vice President
- S. Thomson Vice President replaced by *Mark Sullivan* in 2005
- Yuan Jia-Jun Vice President
- Vladimir Kopal General Counsel
- Federico Casal Honorary Secretary
- Philippe Willekens Executive Director
- Edward Stone IAA President
- Nandasiri Jasentuliyana IISL President

# 2006/2008

- James Zimmerman President
- Marcio Nogueira Barbosa Past President
- Berndt Feuerbacher Vice President for IAC Evolution
- Anatoly I. Grigoriev Vice President for Honours and Awards
- Virendra K. Jha Vice President for Industry Activities
- Karlheinz Kreuzberg Vice President for Institutional Relations and Communications
- Anne-Marie Mainguy Vice President for Technical Activities
- Yasunori Matogawa Vice President for History Activities
- Robert C. Parkinson Vice President for Financial Matters
- M.Y.S. Prasad Vice President
- J. Patrick Schondel Vice President for Student and Young Professional Programmes

- Yansheng Wu Vice President for International Activities
- Vladimir Kopal General Counsel
- Federico Casal Honorary Secretary
- Philippe Willekens Executive Director
- Edward Stone IAA President
- Tanja Masson-Zwaan IISL President

### 2008/2010

- Berndt Feuerbacher President
- James Zimmerman Past President
- Igor V. Barmin Vice President for Honours and Awards
- Gérard Brachet Vice President for International Organizations Relations and Developing Countries
- Marc Heppener Vice President for Publications and Outreach
- David Kendall Vice President for Youth and Workforce Development
- Karlheinz Kreuzberg Vice President for Institutional Relations and MP Liaison
- M.Y.S. Prasad Vice President for IAC Evolution
- J. Patrick Schondel Vice President for Industry Relations
- Tetsuo Yasaka Vice President for Technical Activities
- Yansheng Wu Vice President for International Relations
- Vladimir Kopal General Counsel
- Hans Hoffmann Honorary Secretary
- Philippe Willekens Executive Director

- Anne-Marie Mainguy Special Advisor on IAA/IAF coordination
- Edward Stone IAA President, succeeded by Madhavan Nair in 2010
- Tanja Masson-Zwaan IISL President

### 2010/2012

- Bernd Feuerbacher President
- James Zimmerman Past President
- Maria Antonietta Perino Vice President for IAC Evolution and IPC
- J. Patrick Schondel Vice President for Industry Relations and Members
- V.S. Hegde Vice President for Honours and Awards
- Jean-Jacques Dordain Vice President for Institutional Relations and MP Liaison
- Tetsuo Yasaka Vice President for Technical Activities
- Gérard Brachet Vice President for International Organizations Relations and Developing Countries
- Marc Heppener Vice President for Web Outreach and Societies
- **David Kendall** Vice President for Finance
- Lyn Wigbels Vice President for Youth and Workforce Development
- Jie Yuan Vice President for International Relations
- Vladimir Kopal General Counsel

- Hans Hoffmann Honorary Secretary
- Philippe Willekens Executive Director, succeeded by Christian Feichtinger in 2012
- Anne-Marie Mainguy Special Advisor
- Madhavan Nair IAA President
- Tanja Masson-Zwaan IISL President

### 2012/2014

- Kiyoshi Higuchi President
- Berndt Feuerbacher Past President
- Andrea Boese Vice President for Outreach and Societies
- Jean-Jacques Dordain Vice President for Institutional Relations and MP Liaison
- V.S. Hegde Vice President for Honours and Awards
- Ray O. Johnson Vice President for Global Membership Development
- Jan Kolar Vice President for Finance
- Jean-Yves Le Gall Vice President for Industry Relations
- Maria Antonietta Perino Vice President for Technical Activities and IAC Evolution
- **Sergey Saveliev** Vice President for International Organizations Relations and Developing Countries
- Lyn Wigbels Vice President for Youth and Workforce Development
- Jie Yuan Vice President for International Relations
- Vladimir Kopal General Counsel, succeeded by Lesley Jane Smith in 2014

# **IAF Vice Presidents**



- Hans Hoffmann Honorary Secretary
- Christian Feichtinger Executive Director
- Karlheinz Kreuzberg Special Advisor
- **Kevin Stube** Special Advisor as of IAC 2013
- Gopalan Madhavan Nair IAA President
- Tanja Masson-Zwaan IISL President

### 2014/2015

- Kiyoshi Higuchi President
- Berndt Feuerbacher Past President
- Roberto Battiston Vice President for Science and Academic Relations
- Andrea Boese Vice President for Education Workforce Development and Global Conferences
- John Horack Vice President for Technical Activities and IAC Evolution
- Jan Kolar Vice President for Finance
- Jean-Yves Le Gall Vice President for Industry Relations
- **Joo-Jin Lee** Vice President for Developing Countries & Emerging Members
- V. Koteswara Rao Vice President for Honours and Awards
- **Sergey Saveliev** Vice President for International Relations & International Organisations Liaison
- Dengyun Yu Vice President for Outreach and Societies
- Lesley Jane Smith General Counsel

- Hans Hoffmann Honorary Secretary, succeeded by Gérard Brachet in 2014
- Christian Feichtinger Executive Director
- Karlheinz Kreuzberg Special Advisor
- Kevin Stube Special Advisor
- Madhavan Nair IAA President, succeeded by Peter Jankowitsch in 2015
- Tanja Masson-Zwaan IISL President

#### 2015/2016

- Kiyoshi Higuchi President
- Jean-Yves Le Gall President Elect
- Roberto Battiston Vice President for Science and Academic Relations
- Alexander Degtyarev Vice President for Industry Relations
- John Horack Vice President for Technical Activities and IAC Evolution
- Jan Kolar Vice President for Financial Matters
- Otto Koudelka Vice President for Communication and Publications
- Joo-Jin Lee Vice President for Developing Countries & Emerging Members
- V. Koteswara Rao Vice President for Honours and Awards
- Mary Snitch Vice President for Global Membership Development and Global Conferences

- Chris Welch Vice President for Education and Workforce Development
- Dengyun Yu Vice President for Outreach, Societies and Museums
- Lesley Jane Smith General Counsel
- **Gérard Brachet** Honorary Secretary
- Christian Feichtinger Executive Director
- **Kevin Stube** Special Advisor
- Peter Jankowitsch IAA President
- Tanja Masson-Zwaan IISL President

### 2016/2017

- Jean-Yves Le Gall President
- Roberto Battiston Vice President for Science and Academic Relations
- Alexander Degtyarev Vice President for Industry Relations
- **Joo-Jin Lee** Vice President for Developing Countries & Emerging Members
- Pascale Ehrenfreund Vice President for Publications, Communications and Global Conferences
- Otto Koudelka Vice President for Technical Activities
- Sergey Krikalev Vice President for International Relations & Outreach
- Clay Mowry Vice President for Financial Matters and IAC Evolution

- V. Koteswara Rao Vice President for Honors and Awards
- Mary Snitch Vice President for Global Membership Development & Diversity Initiatives
- Chris Welch Vice President for Education and Workforce Development
- **Johann-Dietrich Woerner** Vice President for Agency Parliamentarian and Ministerial Relations
- Dengyun Yu Vice President for Societies and Museums
- Lesley-Jane Smith General Counsel
- **Geir Hovmork** Honorary Secretary
- Christian Feichtinger Executive Director
- Victoria Alonsoperez Special Advisor on Next Generation
- John Horack Special Advisor on the IAF Global Innovation Agenda
- Peter Jankowitsch IAA President
- Kai-Uwe Schrogl IISL President

# 2017/2018

- Jean-Yves Le Gall President
- Gabriella Arrigo Vice President for Science and Academic Relations and Global Networking Forum
- Alexander Degtyarev Vice President Industry Relations
- Pascale Ehrenfreund Vice President for Communications, Publications and Global Conferences
- **Seishiro Kibe** Vice President for Honors and Awards

# **IAF Vice Presidents**



- Otto Koudelka Vice President for Technical Activities
- Sergey Krikalev Vice President for International Relations and Outreach
- Clay Mowry Vice President for Financial Matters and IAC Evolution
- Valanathan Munsami Vice President for Developing Countries and Emerging Nations
- Mary Snitch Vice President for Global Membership Development and Diversity Initiatives
- Chris Welch Vice President for Education and Workforce Development
- Johann-Dietrich Woerner Vice President for Agency Parliamentarian and Ministerial Relations
- Baohua Yang Vice President for Societies & Museums
- Lesley Jane Smith General Counsel
- **Geir Hovmork** Honorary Secretary
- Christian Feichtinger Executive Director
- Victoria Alonsoperez Special Advisor on Next Generation
- **John Horack** Special Advisor on the IAF Global Innovation Agenda
- Peter Jankowitsch IAA President
- Kai-Uwe Schrogl IISL President

#### 2018/2019

- Jean-Yves Le Gall President
- Pascale Ehrenfreund Incoming President
- Mohammed Nasser Al Ahbabi Vice President for Global Membership Development
- Gabriella Arrigo Vice President for Science and Academic Relations and Global Networking Forum
- Bruce Chesley Vice President for Industry Relations
- Pascale Ehrenfreund Vice President for Communications, Publications and Global Conferences
- **Seishiro Kibe** Vice President for Honours and Awards
- Sergey Krikalev Vice President for International Relations and Outreach
- Clay Mowry Vice President for Financial Matters and IAC Evolution
- Valanathan Munsami Vice President for Developing Countries and Emerging Nations
- Minoo Rathnasabapathy Vice President for Education and Workforce Developments
- S. Somanath Vice President for Technical Activities
- Johann-Dietrich Woerner Vice President for Agency -Parliamentarian and Ministerial Relations
- Baohua Yang Vice President for Societies and Museums
- Lesley Jane Smith General Counsel, succeeded by Sergio Marchisio in 2019

- **Geir Hovmork** Honorary Secretary
- Christian Feichtinger Executive Director
- Mary Snitch Special Advisor on Diversity Initiatives
- Peter Jankowitsch IAA President
- Kai-Uwe Schrogl IISL President

### 2019/2020

- Pascale Ehrenfreund President
- Jean-Yves Le Gall Past President
- Mohammed Nasser Al Ahbabi Vice President for Global Membership Development
- Gabriella Arrigo Vice President for Science & Academic Relations and Global Networking Forum
- Bruce Chesley Vice President for Industry Relations
- Mary Snitch Vice President for Communications -Publications and Global Conferences
- Seishiro Kibe Vice President for Honours and Awards
- **Sergey Saveliev** Vice President for Relations with International Organizations
- Valanathan Munsami Vice President for Developing Countries and Emerging Nations
- Minoo Rathnasabapathy Vice President for Education and Workforce Developments
- S. Somanath Vice President for Technical Activities
- Dominique Tilmans Vice President for Parliamentarian and

- Ministerial Relations and User Communities
- Baohua Yang Vice President for Societies and Museums
- Sergio Marchisio General Counsel
- Geir Hovmork Honorary Secretary
- Christian Feichtinger Executive Director
- Clay Mowry Special Advisor on IAC Evolution
- Peter Jankowitsch IAA President
- Kai-Uwe Schrogl IISL President

#### 2020/2021

- Pascale Ehrenfreund President
- Mohammed Nasser Al Ahbabi Vice President for Global Membership Development
- Bruce Chesley Vice President for Financial Matters and Industry Relations
- Andreas Lindenthal Vice President for IAF Global Networking Forum
- Nobu Okada Vice President for Space Economy and Sponsorship
- **Deganit Paikowsky** Vice President for Diversity Initiatives and Science & Academic Relations
- Minoo Rathnasabapathy Vice President for Education and Workforce Developments
- **Sergey Saveliev** Vice President for Relations with International Organizations



- Mary Snitch Vice President for Communications -Publications and Global Conferences
- S. Somanath Vice President for Technical Activities
- **Dominique Tilmans** Vice President for Parliamentarian and Ministerial Relations and User Communities
- Anthony Tsougranis Vice President for Honours and Awards
- Xiaojun Wang Vice President for Societies and Museums
- Sergio Marchisio General Counsel
- **Geir Hovmork** Honorary Secretary
- Christian Feichtinger Executive Director
- Clay Mowry Special Advisor on IAC Evolution
- Lionel Suchet Special Advisor on IAC Resilience
- Giorgio Saccoccia Special Advisor on International Space Forum - ISF & Developing Countries and Emerging Nations -ACDCEC
- Peter Jankowitsch IAA President
- Kai-Uwe Schrogl IISL President

# 2021/2022

- Pascale Ehrenfreund President
- Clay Mowry Incoming President
- Lisa Campbell Vice President for Agency Relations and Global Membership Development
- Steven Eisenhart Vice President for IAF Global Networking Forum

- Andreas Lindenthal Vice President for Financial Matters and Industry Relations
- Nobu Okada Vice President for Space Economy and Sponsorship
- **Deganit Paikowsky** Vice President for Diversity Initiatives and Science & Academic Relations
- **Davide Petrillo** Vice President for Education and Workforce Developments
- **Sergey Saveliev** Vice President for Relations with International Organizations
- Mary Snitch Vice President for Communications -Publications and Global Conferences
- Lionel Suchet Vice President for Technical Activities
- Dominique Tilmans Vice President for Parliamentarian and Ministerial Relations and User Communities
- Anthony Tsougranis Vice President for Honours and Awards
- Xiaojun Wang Vice President for Societies and Museums
- Sergio Marchisio General Counsel
- **Geir Hovmork** Honorary Secretary
- Christian Feichtinger Executive Director
- Giorgio Saccoccia Special Advisor on International Space Forum - ISF & Developing Countries and Emerging Nations -ACDCEC
- S. Somanath Special Advisor on IAC Evolution

# The IAF Secretariat





Christian Feichtinger
Executive Director



**Giulia Maria Berardi** *Deputy Executive Director* 



Silvia Antolino
Senior Communications
Manager



**Isabella Marchisio** *Senior Projects Manager* 



Alessandra D'Argenio
Projects Manager



Martina Fabbiani Projects Manager



Evelina Hedman
Creative Services &
Projects Manager



Myriam Morabet Senior Projects Manager



Giulia Angeletti Office Manager



Emma Boisdur Projects Manager



Stefano Pascali Projects Manager



Martin Feichtinger
Administrative &
Project Support



Elena Feichtinger Projects Manager and Special Advisor



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