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FINAL PROGRAMME



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23 - 25 June 2015 Munich Residence Palace, Germany



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Bavarian Ministry of conomic Affairs and Media, Energy and Technology



1 WELCOME MESSAGES

1.1 Welcome Messages from the International Astronautical Federation

On behalf of the International Astronautical Federation (IAF), it is my pleasure to welcome you to Munich and to the Global Space Innovation Conference (GLIC 2015).

After the series of previous IAF Global Conferences on Lunar Exploration, Space Exploration, and Space Applications, I am delighted that we have been able to develop GLIC with such eminent co-organisers. Today's space market is highly competitive, as we have seen from recent innovative projects. It is therefore urgent that we address the issue of innovation in space: How best to stimulate and maintain innovation, and how to create an entrepreneurial environment that strengthens both our global economy and space capabilities.

This high-level, unique forum on space innovation will doubtless provide vital ideas and directions for space innovations of the future. The programme includes 6 Panels, a SpaceUp Unconference and a CTO Conversation to address all the toughest challenges addressing the industry.

The conference would not be possible without the leadership of the International Programme Committee, the commitment of the invited speakers, moderators, panelists, and presenters, and the support of the Bavarian State Ministry for Economic Affairs and Media, Energy and Technology (MWMET), the German Aerospace Center (DLR), the European Space Agency (ESA) and the IAF staff. I would like to thank everyone who worked to develop and manage this great event. I sincerely hope you enjoy your time at the conference, and thank you for your participation!



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Mr. Kiyoshi Higuchi President International Astronautical Federation

In recent years, space players have faced common challenges, whether in launch vehicles with SpaceX's innovations or in satellites with recently announced programs introducing hundreds of small satellites for the Internet market. While China's space policy continues to develop with 20 new satellites launched per year and India is pursuing a low-cost strategy to fly a mission to Mars with 60 million dollars, Europe is responding with new programs such as Ariane 6 that aim to have a long-term structuring effect.

In this particularly dynamic context, the space industry is the backbone of space activities. Not only does it offer the technology to access space, to obtain space data and to exploit them, but it is also a constant source of creativity and innovation for space projects. Moreover, it is a key economic asset for countries involved in the peaceful use of outer space, generating direct and indirect jobs through its multiple daily applications.

The IAF offers the space industry a privileged channel of communication between industry members, space agencies, NGOs and other stakeholders. My experience as Chair of the Industry Relations Committee between 2006 and 2012 allowed me to work more closely with IAF industry members and gain insight into how they benefit





from IAF activities, especially during IAC. As Vice-President responsible for Industry Relations since 2013, I am working to make IAF more appealing to the space industry. In particular, it is crucial that IAF organizes networking events for industry members during IAC and other major space events.

The Global Space Innovation Conference (GLIC), the latest in the IAF's 'Global Series' conferences, will offer a high-level, specialized three-day event focusing on entrepreneurship and innovation in space, and provide governments, space agencies, industries and entrepreneurs a forum for exchanging their experience in innovation management and technology transfer. Top-level keynote speakers will share their thoughts, while the 'Results and Recommendations' session at the end of the conference will focus and consolidate the key outcomes. I wish you all an excellent and very fruitful conference!



Mr. Jean-Yves Le Gall IAF Vice-President for Industry Relations CNES President

Science and technology, innovation and business – these are inseparable elements in creating growth.

Innovation has been shown to be a key source of economic growth in advanced and emerging economies. Especially space is perceived as a sector of cutting-edge technologies and a high-skilled workforce.

Innovation starts with scientific discoveries and technological inventions — but in order to really drive economic growth, a cool idea or an improvement of an existing product is not enough. It needs to be transformed into market-ready products to ultimately create new markets or new industries.

How can this be achieved? First, on all education levels both theory and hands-on experience need to be offered. Second, innovation depends on lateral thinking between different disciplines and this exchange must be fostered. Third, establishing an entrepreneurial culture is essential to encourage especially scientists and engineers to think and act as entrepreneurs. Last, but not least: innovation activities need money — from the right source at the right time. And this leads me to a key question: how far should policies for science, technology and innovation be driven by economic impact? The big scientific ideas that changed the world were, at least in the beginning, often far from being translated into commercial applications. On the other hand, we are being confronted with unbalanced economies and activities have to be realized in a financially constrained environment. All these aspects will be addressed during the GLIC.

I believe that global space innovation is a shared responsibility and stakeholders should be moving together in the same direction. Collaboration is essential for smart, successful and efficient innovation and barriers to intersectoral or intercultural collaboration need to be removed, well knowing that both cooperation and competition is needed. I am looking forward to lively discussions and wish the participants a fruitful meeting!



Ms. Andrea Boese IAF Vice-President for Education, Workforce Development and Global Conferences







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Bavarian Ministry of Conomic Affairs and Media, Energy and Technology



1.2 Welcome Message from the Bavarian Ministry of Economic Affairs and Media, Energy and Technology

For the first time IAF together with ESA, DLR and the Bavarian Ministry of Economic Affairs and Media, Energy and Technology is organizing a Global Conference on innovation and technology transfer with emphasis on aerospace technologies.

In our rapidly developing world innovation and its broad use is a determining factor for our future prosperity. Competitiveness in all areas will depend on innovation speed and its widest possible application. Aerospace research and industry is today the prime source of know-how and patents generation and therefore the best demonstration object for technology transfer for applications in our daily life.

The GLIC 2015 assembles eminent speakers from around the world to discuss with decision makers in politics, agencies, research organisations, industry and young entrepreneurs their experiences and methods how to even improve future activities in this determining area.



Mr. Jörg Feustel-Büechl Advisor of the Bavarian Ministry of Economic Affairs and Media, Energy and Technology

GLIC 2015 IPC Co-Chair

1.3 Welcome Messages from the German Aerospace Center (DLR)

For decades, the space sector has delivered significant scientific, technological and economic benefits to the world. The industry now seems to sit at a threshold where it can offer yet more benefits to those on Earth. The increased interdependence of space with other industrial sectors is becoming ever more broad and intense, and will benefit all participants. New players, for instance internet companies, are becoming active in the sector. More countries are developing their own space programmes. These developments could lead to entirely new markets with global impacts. Innovations, both in terms of products and services, will be critical. Both established companies and, in particular, startup companies will be vital in transmitting these innovations to the market.

The Global Space Innovation Conference of the International Astronautical Federation (IAF) is an important forum to discuss entrepreneurship and innovation in the space sector. This forum includes international experts from both industry and the public sector.

Developing startups require a broad range of advice and support during their early years. They also require sufficient start-up capital. The road from invention to corporate financing is often a long one. As such, this conference offers a platform for exchange between young and established companies; between companies and potential financial partners; between companies and space agencies; and lastly between members of the space community and representatives from sectors outside the traditional space industry.

As the Executive of the DLR Space Administration, I in particular hope for suggestions as to the role that state agencies can play in this new era. We hope to be important companions in this change process. Mostly I am looking forward to interesting and fruitful discussions, both on the podium and during the breaks. My thanks go out to the IAF, the speakers for their invaluable contributions and to all those who have made this conference possible.



Dr. Gerd Gruppe Member of the DLR Executive Board

GLIC 2015 IPC Co-Chair

Dear GLIC 2015 participants:

For me the year 2014 has been an extremely exciting and thrilling year. The Rosetta satellite did rendezvous with the comet 67P/Churyumov-Gerasimenko. The approach distance was within a few kilometers, the accompanying comet lander Philae was successfully deployed and the landing manoeuvre was almost perfect. All of that happened precisely as it was planned more than a decade ago, millions of kilometers away from Earth, remotely. The first measurements and pictures were amazing.

Another wonderful example is the Blue Dot Mission with the German astronaut Alexander Gerst who spent 6 month on the ISS. This activity has been intensively covered by the media in Germany and, therefore, has created an enormous public interest and awareness for space and sciences.

These highly complex missions e.g. in low earth orbit or in deep space require creativity, technological development and inventions resp. innovations. Without those qualities we wouldn't have accomplished the above mentioned missions and tasks. For that specific reason we have to make sure that we provide an excellent framework and fundament for innovation and entrepreneurship. Because in the end entrepreneurship means competition among the best ideas and concepts and, in turn, makes the space business for society cheaper and more affordable.

The Global Space Innovation Conference can be considered as one of the most important conferences in order to promote entrepreneurship and innovation in the space sector. Here, international experts from the private and public sector as well the space agencies are getting a platform to exchange thoughts, address problems and propose solutions and, finally, define ideas and strategies to give "space" an extra push.

It is my sincere hope that the results of the GLIC 2015 conference will stimulate entrepreneurship. The goal should be to make proposals for policies and legislation on a global, regional and national level.



Prof. Hansjörg Dittus Member Executive Board for Space Research and Space Technology DLR

GLIC 2015 IPC Co-Chair









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Bavarian Ministry of conomic Affairs and Media, Energy and Technology



1.4 Welcome message from the European Space Agency (ESA)

Welcome to the Global Space Innovation Conference!

I am honored and delighted to welcome you to discovering how to go from government programmes to entrepreneurial actions!

ESA decided to co-organize this event in line with one of its missions to inspire and facilitate the use of space technology, systems and know-how for non-space applications.

ESA strengthens European industry by identifying new business opportunities for providers of space technology and systems. It enhances the know-how and competitiveness of these providers while broadening their business horizons.

The aim of this conference is then to successfully transfer space technologies to non-space sectors for applications as diverse as possible. GLIC 2015 will give a great contribution in helping to create viable business and new jobs by analyzing the real needs of companies especially start-up ones. The discussion will also focus on how successful entrepreneurs were able to start a successful enterprise hence identifying truly meaningful ways of support for entrepreneurs in the space industry. Another important topic that will be deeply asked is whether the space sector is different and what are the challenges that start-ups working in space technologies face?

I believe we have chosen a venue that guarantees a successful conference amid the culture and scenery of Munich. Our programme is rich and varied with 6 keynote speeches and more than 50 panelists, and numerous opportunities for informal networking.

At the end of these three intensive days we will all know more about how a successful business can be created based on space technologies and how we can encourage these new businesses in becoming a reality.

Enjoy your time!



Dr. Karlheinz Kreuzberg Head of Director General's Cabinet, ESA

GLIC 2015 IPC Co-Chair

2 ORGANISER INFORMATION

2.1 The International Astronautical Federation (IAF)

Founded in 1951, the International Astronautical Federation is the world's leading space advocacy body with more than 280 members on six continents, including all leading agencies, space companies, societies, associations and institutes worldwide.

Following its theme "A space-faring world cooperating for the benefit of humanity", the Federation advances knowledge about space and fosters the development and application of space assets by advancing global cooperation.

As the organiser of the annual International Astronautical Congress (IAC), and other meetings on specific spacerelated topics, the IAF actively encourages the development of astronautics for peaceful purposes and supports the dissemination of scientific and technical information related to space.

International Astronautical Federation (IAF)

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IAF Member Organisations 2015

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Agencia Espacial Mexicana (AEM)	Mexico
Agrupacion Astronautica Espanola	Spain
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merican Astronautical Society (AAS)	United States
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Association Dedicated to Development n Astronautics (A.D.D.A)	Romania
Association of Arab Remote Sensing Centers (AARSC)	Libya
Association of Space Explorers (ASE)	United States
Associazione Italiana di Aeronautica e Astronautica (AIDAA)	Italy
stronautic Technology SDN BHD	Malaysia







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ATUCOM - Tunisian Association for	Tunisia
Communication and Space Sciences	
Austrian Research Promotion Agency	Austria
Beihang University	China
Beijing Sunwise Space Technology Ltd.	China
Belgian Federal Science Policy Office (BELSPO)	Belgium
Brazilian Space Agency (AEB)	Brazil
Bulgarian Aerospace Agency	Bulgaria
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Canadian Space Agency	Canada
Canadian Space Society	Canada
Center for Planetary Science and Exploration, Western University	Canada
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Centre National d'Etudes Spatiales (CNES)	France
Centre Royal de Teledetection Spatiale	Morocco
Centro de Investigacion y Difusion Aeronautico Espacial (CIDA-E)	Uruguay
CGS S.p.A.Compagnia Generale per lo Spazio	Italy
China Head Aerospace Technology Co.	China
Chinese Society of Astronautics (CSA)	China
CIRA Italian Aerospace Research Centre	Italy
Cluster of Serbian Aeronautical Industry - UVIS	Serbia
Comision Nacional de Actividades Espaciales (CONAE)	Argentina
Commission d'Astronautique de l'Academie Roumaine	Romania
Cosmoexport Aerospace Research Agency	Russian Federation
Croatian Astronautical and Rocket Federation (HARS)	Croatia
CSIRO Astronomy & Space Science	Australia
CSL (Centre Spatial de Liège)	Belgium
Curtin University	Australia

CVA (Community of Ariane Cities)
Cyprus Astronautical Society
Czech Space Alliance
Czech Space Office
Danish Astronautical Society
Dassault Aviation
Deimos Space S.L.
Delft University of Technology
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Desà Engineering srl
Deutsche Gesellschaft für Luft-und Raumfahrt, Lilienthal-Oberth e.V. (DGLR)
Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR)
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France Austria France Turkey United States

Federal Aviation Administration Office of Commercial Space Transportation (FAA/AST)	United States
Federal Space Agency (ROSCOSMOS)	Russian Federation
Finnish Astronautical Society	Finland
Future Space Leaders Foundation	United States
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Geo-Informatics and Space Technology Development Agency (GISTDA)	Thailand
Georgia Institute of Technology, School of Aerospace Engineering	United States
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IABG Industrieanlagen - Betriebsgesellschaft mbH	Germany
ICARE-CNRS	France
IHI Aerospace Co, Ltd.	Japan
Indian Space Research Organization (ISRO)	India
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Institut Supérieur de l'Aéronautique et de l'Espace (ISAE)	France
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Istanbul Technical University	Turkey
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Italian Space Agency (ASI)	Italy
Japan Aerospace Exploration Agency (JAXA)	Japan
Japan Manned Space Systems Corporation (JAMSS)	Japan
Japan Society for Aeronautics and Space Sciences (JSASS)	Japan
Japanese Rocket Society	Japan
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JSC Glavcosmos	Russian Federation
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Production Space Center	Federation
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Korea Astronomy and Space Science Institute	Korea, Republic of
Kyiv Politechnic Institute (NTUU "KPI")	Ukraine
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Economic Affairs and Media, Energy and Technology



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The Aerospace Corporation	United States
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The British Interplanetary Society	United Kingdom
The Chinese Aeronautical and Astronautical Society located in Taipei	China
The Fisher Institute for Air and Space Strategic Studies	Israel
The Johns Hopkins University Applied Physics Laboratory	United States





Italy

Politecnico di Torino





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The Planetary Society	U
The Sergei Korolev Space Museum	U
TNO	Т
ТÜВІТАК	Т
Turkish Aerospace Industries	Т
U.S. Geological Survey	U
UK Space Agency	U
University of Alabama in Huntsville	U
University of Naples "Federico II"	lt
University of South Australia	A
University of the Western Cape	S
University of Vigo	S
University POLITEHNICA of Bucharest - Research Center for Aeronautics and Space	R
University Wuerzburg	G
UNSW Australia	A
Victorian Space Science Education Centre	A
Vietnam National Satellite Center (VNSC)	V
Viettel Technologies Joint Stock Company	V
Virgin Galactic L.L.C	U
Vishay Precision Group	U
VITO nv	В
von Karman Institute for Fluid Dynamics	В
WFB - Wirtschaftsförderung Bremen	G
Women in Aerospace Europe (WIA-E)	Т
World Space Week Association	U
Wyle	U
X PRIZE Foundation	U
Youth Network for Reform, Inc (YONER - LIBERIA)	Li
Yuzhnoye State Design Office	U
ZARM Fab GmbH	G

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mic Affairs and Media Energy and Technology



CO-ORGANISERS



2.2 The Bavarian State Ministry for Economic Affairs and Media, Energy and Technology (MWMET) focuses on maintaining Bavaria's competitive edge as a business location, strengthening Bavaria's economic performance, and creating attractive employment opportunities. The ministry is an 'organizer' of technology transfer and innovation management, and is also responsible for R&D and technology funding. Its mission is to strengthen the capacity of the Bavarian enterprises and the economic welfare of its citizens. http://www.stmwi.bayern.de/



2.3 The German Aerospace Center (DLR) is the national aeronautics and space research centre of Germany. Its research and development work in aeronautics, space, energy, transport and security is integrated into national and international ventures. DLR also plans and implements the German space programme. Its mission comprises the exploration of Earth and the Solar System, and research for protecting the environment. It also fosters the development of the next generation of researchers and provides expert advisory services to government. http://www.dlr.de/



European Space Agency

2.4 The European Space Agency (ESA)'S mission is to shape the development of Europe's space capability and ensure that investment in space continues to deliver benefits to the citizens of Europe and the world. ESA is an international organisation with 20 Member States, whose job is to draw up and carry through the European space programme. ESA's programmes are designed to find out more about Earth, its immediate space environment, our Solar System and the Universe, as well as to develop satellitebased technologies and services, and to promote European industries. ESA also works closely with space organisations outside Europe. http://www.esa.int/ESA

3 **INTERNATIONAL PROGRAMME AND ORGANISING COMMITTEES**

3.1 International Programe Committee Co-chairs

Mr. Jörg Feustel-Buechl, MWMET Dr. Gerd Gruppe, DLR Prof. Hansjoerg Dittus, DLR

Mr. Frank M. Salzgeber, ESA Mr. Ken Davidian, IAF / FAA AST

3.2 International Programme Committee Members

Mr Shoichiro Asada, Mitsubishi Heavy Industries Ltd (Japan)

Ms Roya Ayazi, Nereus AISBL (Belgium)

Mr Alexey Belyakov, Skolkovo Innovation Center (Russia)

Mr Amnon Ginati, ESA (The Netherlands)

Mr Michael Davis, Space Industry Association of Australia (SIAA) (Australia)

Mr Pablo de Leon, Federacion Argentina Astronautica (FAA) (Argentina)

Mr Max Grimard, Airbus Defence & Space (France)

Prof. Scott Hubbard, Stanford University (USA)

Dr Ray O. Johnson, former Lockheed Martin Corporation (USA)

Ms Claire Jolly, Organisation for Economic Co-operation and Development (OECD) (France)

Ms Claudia Kessler, HE Space (Netherlands)

Mr Igor Komarov, Federal Space Agency ROSCOSMOS (Russia)

Ms Kathy Laurini, NASA (USA)

Mr. Alexander Mager, Ludwig Bölkow Campus GmbH (Germany)

3.3 Organising Committee Members

Ms. Andrea Boese DLR (Germany) & IAF

Dr. Karlheinz Kreuzberg ESA (Germany)









Mr Gary L. Martin, NASA AMES Research Centre (USA)

Dr Peter Martinez, University of Cape Town (South Africa)

Ms Tanja Masson-Zwaan, International Institute of Space Law (IISL) (The Netherlands)

Dr Francisco Javier Mendieta Jimenez, Mexican Space Agency (AEM) (Mexico)

Mr. Nikolay Mikhaylov, Skolkovo Innovation Center (Russia)

Mr Clayton Mowry, Arianespace (USA)

Dr Dmitry Payson, United Rocket and Space Corporation (Russia)

Mr Thorsten Rudolf, AZO (Germany)

Mr Mark Sirangelo, Sierra Nevada Corporation (USA)

Mr Hans J. Steininger, MT Aerospace Augsburg (Germany)

Mr Michael von Harpe, former ESA and World Bank (Germany)

Dr Pete Worden, NASA AMES Research Centre (USA)

Mr. Jie Yuan, CASC (China)

Mr. Peter Seige MWMET (Germany)

Dr. Christian Feichtinger IAF (Austria)







Munich Residence Palace, Germany 23 - 25 June 2015



Residence First Floor

Bavarian Ministry of Economic Affairs and Media, Energy and Technology



4 PRACTICAL INFORMATION

4.1 Floor Plans – Residence Ground Floor















Munich Residence Palace, Germany 23 - 25 June 2015





4.2 Locations and Opening Hours

Registration

Tuesday 23 June – 08:00 – 18:00 Wednesday 24 June - 08:00 - 18:00 Thursday 25 June 08:00 - 13:00

IAF Secretariat

Tuesday 23 June – 08:00 – 18:00 Wednesday 24 June - 08:00 - 18:00 Thursday 25 June 08:00 - 16:00

Both the Registration Desk and the Secretariat are located in the Max Joseph Saal Foyer, Munich Residence, Residenzstraße 1.

Please make sure you use the entrance from Residenzstraße 1. Signs will lead you to the venue.

CTO Conversation will take place at the Bavarian Ministry of Economic Affairs and Media, Energy and Technology. Prinzregentenstrasse 28, 80538 Munich

Metro / public transport 4.3

How to get there by public transport

Information on the railway you can find on external link www.bahn.com.

For information on intercity bus lines and further means of travel please have a look on the Internet.

The Munich Residenz is located in the centre of the city and can easily be reached by public transport.

The following stops are close by: S-Bahn (suburban railway) "Marienplatz" U-Bahn (underground) "Marienplatz" or "Odeonsplatz" Bus "Odeonsplatz" Tram "Nationaltheater"

How to get there by car

The Residenz has no own parking places for visitors. There are chargeable parking places in the underground car park of the Nationaltheater (Max-Joseph-Platz).

Route planners you can find on external link http://auto.abacho.de/routenplaner/



GLIC 2015 is happy to provide you free Wi-Fi access in the Max Joseph Saal and Einsäulensaal User ID: GLIC2015 Password: glic2015

Certificate of Attendance 4.5

Certificates of Attendance are available on request from the on-site registration desk. Claims of hours of applicability toward professional education requirements are the responsibility of the participant.













Munich Residence Palace, Germany 23 - 25 June 2015







CONFERENCE PROGRAMME 5

Conference at a Glance 5.1





5.2 Day-by-day (Plenaries & Side Events)

Tuesday, 23 June

09:00 – 15:00 Space Up for Young Professionals & Students

Einsäulensaal, Residence Palace

The SpaceUp GLIC Munich is the 42nd edition of the worldwide known space 'unconference', where participants decide the topics, schedule, and structure of the event. Official website: www.spaceup.de

Sponsored by:



10:00 – 12:00 CTO CONVERSATION

Ministry of Economic Affairs and Media, Energy and Technology

Ludwig Erhard Saal, Prinzregentenstrasse 28, 80538 Munich

Speakers:



Chairman: Dr Robie I. Samanta Roy Vice President Technology and Innovation, Lockheed Martin Corporation



Mr. Alexander Mager Managing Director, Ludwig Bölkow Campus GmbH



Dr. Yasunori Mochizuki Vice President, NEC Central Research Laboratories



Dr. Dan Snustad Technical Director, 3M Corporation











Mr. Scott Fouse

VP and Director, Space Systems Advanced Technology Center, Lockheed Martin Corporation



Dr. Piero Messidoro Chief Technology Officer, Thales Alenia Space



Prof. Dr. Andreas Rittweger Director,

DLR Institute for Space Systems





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nomic Affairs and Media, Energy and Technology



16:00 – 17:00 HIGH-LEVEL KEYNOTE SPEECHES

Allerheiligen-Hofkirche, Residence Palace

Speakers:



Keynote Speaker: HH Prince Dr. Turki bin Saud bin Mohammad Al Saud

President, King Abdulaziz City for Science and Technology (KACST)

17:30 – 18:00 EXHIBITION OPENING Max Joseph Saal Foyer, Residence Palace

18:00 – 20:00 WELCOME RECEPTION Kaisersaal, Residence Palace

Wednesday, 24 June

08:00 – 18:00 REGISTRATION Max Joseph Saal Foyer, Residence Palace

08:00 – 09:00 NETWORKING COFFEE **Theatinergang, Residence Palace**

09:00 – 10:45 PANEL 1. THE VIEW FROM ENTREPRENEURS

Max Joseph Saal, Residence Palace

Moderator:

Speakers:



Mr. Frank Salzgeber Head of Technology Transfer Programme Office Directorate of Technical and Quality Management, European Space Agency (ESA)



08:00 - 18:00 REGISTRATION

Max Joseph Saal Foyer, Residence Palace

12:00 – 14:00 COFFEE SERVICE

Theatinergang, Residence Palace

12:00 – 15:00 RESIDENCE TOURS

Residence Palace

Detailed information see 6.1 Social Events under residence tours on Tuesday, 23 June.

13:00 - 15:00 WELCOME COCKTAIL

Kabinettsgarden, Residence Palace

15:00 – 16:00 OPENING CEREMONY

Allerheiligen-Hofkirche, Residence Palace

Speakers:



Ms. Ilse Aigner Bavarian State Minister of Economic Affairs and Media, Energy and Technology



Prof. Jean-Jacques Dordain Director General, European Space Agency (ESA)



Mr. Jean-Yves Le Gall President, Centre National d'Etudes Spatiales (CNES) Vice President, International Astronautical Federation (IAF)



Dr. Robie I. Samanta Roy Vice President Technology and Innovation, Lockheed Martin Corporation (LMC)







Dr. Fritz Merkle Executive Member of the Board OHB SE

Dr. Daniel Calleja Crespo (Invited)

Commission's Directorate-General for

President, International Astronautical

Director General, European

Enterprise and Industry

Mr. Kiyoshi Higuchi

Federation (IAF)



Prof. Jan Woerner Chairman of the Board, German Aerospace Center (DLR)









Keynote Speaker: **Ms. Candace Johnson** Founder/Co-Founder SES, Loral-Teleport Europe, Europe Online, VATM, GTWN, Succes Europe



Mr. Max Beaumont Founder, Giaura







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Mr. Scott Larson CEO and Co-founder, UrtheCast



Dr. Sias Mostert Managing Director, Space Commercial Services



Mrs. Karin Nilsdotter CEO & Future Astronaut Spaceport Sweden AB



Mr. Nobu Okada CEO, Astroscale

10:45 – 11:15 NETWORKING COFFEE

Theatinergang, Residence Palace

11:15 – 13:00 PANEL 2. SOCIOECONOMIC ENVIRONMENT FOR ENTREPRENEURS

Max Joseph Saal, Residence Palace

Speakers:



Moderator:

Mr. Ken Davidian AST Director of Research and Program Manager, FAA's Office of Commercial Space Transportation



Dr. Gale Allen Deputy Chief Scientist, National Aeronautics and Space Administration (NASA)



Dr. Alex MacDonald Head - Emerging Space Office, National Aeronautics and Space Administration (NASA)





Head, **OECD Space Forum**

Keynote Speaker:

Virginia Tech

Mrs. Claire Jolly

Dr. Devi R. Gnyawal

Director of Graduate Programs at

the Department of Management,

Pamplin College of Business,



Dr. Dmitry Payson Director of Research and Analysis Center, United Rocket and Space Corp. (URSC)

13:00 - 14:00 LUNCH **Theatinergang, Residence Palace**

14:00 – 15:45 PANEL 3. ENTREPRENEURIAL EDUCATION AND TRAINING

Max Joseph Saal, Residence Palace

Speakers:



Keynote Speaker and Moderator: Dr. Michael K. Simpson Executive Director of the Secure World Foundation



Prof. Alessandro Golkar Associate Director, SkolTech, Russia



Prof. Walter Peeters President of the International Space University (ISU)

15:45 – 16:15 NETWORKING COFFEE **Theatinergang, Residence Palace**

16:15 - 18:00 PANEL 4. NON-FINANCIAL ASSISTANCE FOR VENTURE CREATION

Max Joseph Saal, Residence Palace

Speakers:



Moderator: **Mr. Niels Eldering** ESA Technology Transfer Officer, European Space Agency (ESA)



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Dr. Devi R. Gnyawal

Director of Graduate Programs at the Department of Management, Pamplin College of Business, Virginia Tech



Prof. G. Scott Hubbard Director, Stanford Center of Excellence for Commercial Space Transportation



Keynote Speaker: **Mr. John Freisinger** CEO and President Technology Ventures Cooperation







Munich Residence Palace, Germany 23 - 25 June 2015



Economic Affairs and Media Energy and Technology





Mr. Alexey Belyakov Vice President, Head of Space & Telecom Cluster, Skolkovo Foundation



Mr. Amnon Ginati *Head of the Integrated &* Telecommunications related Applications, European Space Agency (ESA)



Mr. Didier Lapierre *Responsible for technology transfer,* CNES





Mr. Gian Gherardo Calini Head, Market Development GSA



Mr. Takayuki Kawai Counsellor of the New Enterprise Promotion Department, Japan Aerospace Exploration Agency (JAXA)

Mr. Thorsten Rudolph Managing Director, Anwendungszentrum GmbH Oberpfaffenhofen

19:00 – 21:00 BAVARIAN GALA DINNER

Paulaner am Nockherberg

For more information see 6.3 Social Events.







Thursday, 25 June

08:00 - 13:00 REGISTRATION Max Joseph Saal Foyer, Residence Palace

08:00 – 09:00 NETWORKING COFFEE

Theatinergang, Residence Palace



09:00 - 10:45 PANEL 5. FINANCIAL SUPPORT FOR VENTURE CREATION

Max Joseph Saal, Residence Palace

Speakers:



Moderator & Keynote Spreaker: Prof. Chris Zott Professor of Entrepreneurship **IESE Business School**)



Mr. Pierre L. Godart Chief Financial Officer, Airbus Safran Launchers



Ms. Rachel Villain Principal Advisor, EUROCONSULT

10:45 – 11:15 NETWORKING COFFEE **Theatinergang, Residence Palace**

11:15 – 13:00 PANEL 6. POLICIES AND LAWS FOR ENTREPRENEURSHIP

Max Joseph Saal, Residence Palace

Speakers:



Moderator: Prof. Dr. Kai-Uwe Schrogl Head of the ESA Policies Department European Space Agency (ESA)









Ms. Uli W. Fricke Managing General Partner Triangle Venture Capital Group



Dr. Naoto Matsuura Director of New Enterprise Promotion Department, Japan Aerospace Exploration Agency (JAXA)



Dr. Ingo Baumann Lawyer, BHO





Munich Residence Palace, Germany 23 - 25 June 2015









Dr. Christina Giannopapa Senior Advisor, European Space Agency (ESA)



Prof. Dr. Bernd J. Hoefer CEO, A9C Capital



Mr. Philippe Glaesener Senior Vice President, Business Development Europe, Middle East & Africa SES

Ms. Kathryn L. Lueders

NASA's Commercial Crew Program

Program Manager



Mr. Frank Salzgeber

(Panel 1 and Panel 4) Head of Technology Transfer Programme Office Directorate of Technical and Quality Management, European Space Agency (ESA)

15:45 - 16:00 CLOSING REMARKS

Max Joseph Saal, Residence Palace



Mr. Kiyoshi Higuchi President, International Astronautical Federation (IAF)



Dr. Francisco Javier Mendieta Jiménez Director General Agencia Espacial Mexicana (AEM)

13:00 – 14:00 LUNCH

Theatinergang, Residence Palace

14:00 – 15:45 RESULTS AND RECOMMENDATIONS SESSION

Max Joseph Saal, Residence Palace

Speakers:



Moderator: Mr. Jörg Feustel-Büechl Advisor, MWMET



Dr. Gerd Gruppe (*Panel 5*) *Member of the DLR Executive Board, DLR*



Mr. Ken Davidian (Panel 2 and Panel 3) AST Director of Research and Program Manager, FAA's Office of Commercial Space Transportation

Ms. Andrea Jaime Albalat (SpaceUp) SGAC member, IAF WD/YPP Committee member













Prof. Dr. Kai-Uwe Schrogl (Panel 6) Head of the ESA Policies Department European Space Agency (ESA)





Munich Residence Palace, Germany 23 - 25 June 2015







Tuesday, 23 June

6.1 Residence Tours

12:00 - 15:00

Book your free-of-charge guided tour of the Residence while registering online or on site. There are tours every 30 minutes from 12:00 to 14:00. The length of each English-language tour is 45 minutes. The last tour starts at 14:00. The meeting point for the groups and the guides is the Residence Museum Ticket Office.

6.2 Welcome Reception

18:00 - 20:00

Kaisersaal

A Welcome Reception is kindly hosted by the Bavarian State Ministry for Economic Affairs and Media, Energy and Technology. An excellent networking opportunity in the historic surroundings of the Bavarian Residence.

Wednesday, 24 June

6.3 Bavarian Gala Dinner

19:00 - 21:00

Paulaner am Nockherberg. Hochstraße 77, 81541 Munich.

Get your tickets to participate to a typical Bavarian Dinner!

Tickets for the Gala Dinner (45€) are available on the online registration platform and at the Registration Desk.











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