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3/2017 (September 2017)

President's Welcome

Dear Colleagues,

It's IAC month, your favourite time of the year!

This Newsletter features a great deal of exciting news on preparations for IAC, which will be taking place from 25-29 September in Adelaide. The Congress features a rich programme of plenary and technical sessions. IAC also places strong emphasis on youth development, for which we have the Emerging Space Leaders grants programme to support young talent to attend the Congress. Also, as per the IAF Spring Meetings in Paris last March, this year's IAC will have a Diversity Day on Wednesday 27th to celebrate the Space Community 3Gs: Gender, Generation, and Geography.

The 68th IAC is set to be an exciting networking event for the entire space community and everyone involved has been working extremely hard to make it a success. I would like to express my thanks, in advance, for what promises to be a stellar occasion. We are looking forward to the Congress with great anticipation and hope all of you will attend and enjoy it. I would also like to express my special appreciation to our IAF members for their contribution to this newsletter, which features the latest on IAF activities and a selection of members' news in the Members' Corner. I encourage all of you to consider submitting short items for future newsletters, to share your valuable news with the wider IAF community. I hope you enjoy the newsletter and look forward to seeing you in Adelaide! See you online with #IAC2017.

Dr. Jean-Yves Le Gall

IAF President



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PRESIDENT'S WELCOME

IAF NEWS

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- This Day In Space

MEMBERS' CORNER

OUR LATEST PUBLICATIONS

- IAC 2017 Flyer
- IAC 2018 Call for Papers
- GLEX 2017 Highlights
- IAC 2017 Final Programme & Technical Programme
- GLAC 2018 Flyer

INTERVIEW:

Senator Martin Günthner

IMPORTANT DATES 2017:

- IAC 2017 – 25-29 September 2017
- ISF 2017 – 28 November 2017
- Spring Meetings 2018 – 27-29 March 2018
- GLAC 2018 – 21 - 23 May 2018
- IAC 2018 – 1-5 October 2018



Alliance
Programme

Platinum



Gold



Silver



Bronze



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International Astronautical Federation

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GLEX 2017



The Global Space Exploration Conference - GLEX 2017 that took place in Beijing on 6-8 June 2017 was a great international success, with a participation of over 1000 participants from over 50 countries. GLEX2017 brought together leaders and decision-makers within the science and human exploration community – engineers, scientists, entrepreneurs, educators, agency representatives and policy makers. The Plenary Programme showcased 4 Plenary Events, including Heads of Agencies, a session on the Development of China Space Activities and a session on the Importance of International Cooperation. In addition, 9 top-level Keynote Lectures touched upon a series of high-level topics, including presentations from the European Space Agency Director General, the Former Apollo 11 Astronaut, Buzz Aldrin and China Space Exploration Missions. The Global Networking Forum Programme touched upon the most recent and hot topics in Space Exploration with a total of 9 sessions, giving all participants the opportunity to be updated on recent developments and future endeavors in Space Exploration. The technical programme for GLEX2017 was organized in special sessions which were divided into 25 tracks covering all aspects of space technology. The programme involved authors from 22 countries. It was composed by 200 high quality papers and 50 posters that have been thoroughly reviewed and selected out of 392 submissions. The most popular session, in terms of attendance, was Session 3 on Lunar Exploration with more than 100 participants. Altogether, the technical sessions attracted daily 500 participants. The Pre and Post Congress activities, such as the SpaceUp, the International Lunar Observatory Association Galaxy Forum and the Technical Visits were extremely well-attended and contributed to the success of the whole Conference.

You can
watch all
GLEX 2017
videos here:



View the
photos from
the Pre-
conference

View the
photos from
Tuesday
6 June

View the
photos from
Wednesday
7 June

View the
photos from
Thursday
8 June



Check for more news on our Social Media



The IAF has published a little booklet documenting the highlights of GLEX 2017. We sincerely hope you will enjoy it and count on your participation to many more Global Conferences!

[Click here at have a look to the GLEX 2017 Highlights](#) 



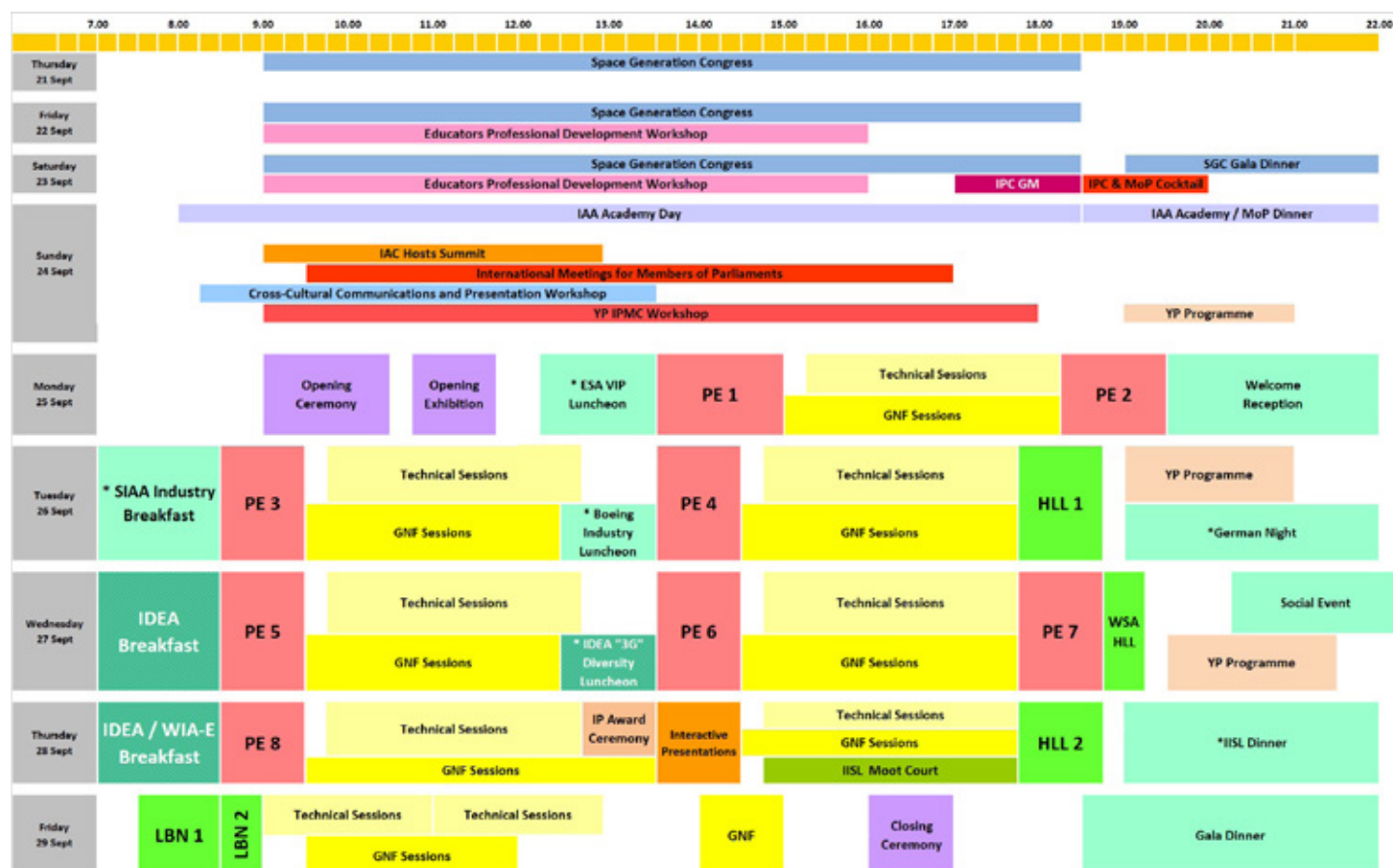
IAC 2017

It is with great pleasure and excitement that the International Astronautical Federation (IAF) will meet you at the 68th annual International Astronautical Congress (IAC).

#IAC2017 will be an intense week, here are some info to start organising your schedule!

IAC 2017 Programme at a Glance

Final programme: http://www.iafastro.org/wp-content/uploads/2017/09/IAC2017_FP_Main-Programme_Full-Doc_Sept201718_FINAL_online.pdf



* Upon Invitation only

The IAC Plenary Programme features an impressive selection of high-level Plenary Sessions, Highlight Lectures and Late-breaking News events.

All abstracts accepted for the congress will be presented as either oral or as interactive presentations. As usual they will be published in the IAC proceedings and in the IAC Paper Archive. New for this year is that the IAC papers will also be indexed in the largest cited reference enhanced multidisciplinary databases: Elsevier's SCOPUS and Compendex.

The Global Networking Forum (GNF) Programme at IAC2017 includes more than 40 sessions and will touch upon the most recent and hot topics in space!



See the full
GNF
programme
here

GNF AT A GLANCE

	8.00		9.00		10.00		11.00		12.00		13.00		14.00		15.00		16.00		17.00		18.00		19.00	
Monday 25 Sept			Opening Ceremony			Opening Exhibition and VIP Tour		* ESA Luncheon			PE 1: Heads of Agencies Plenary		GNF Opening	Commercial Nano-Satellites Constellation – The SAS Story				Strategic Partnership of Energia and Boeing in Space		EU Ambitions in Space	What Future Role for Europe in Exploration?	PE 2 - Host Plenary: The Space Industry's Economic and Social Impact		
Tuesday 26 Sept	* SIAA Industry Breakfast	PE 3: Space Traffic Management – Global Challenge to Protect the Strategic Domain of Space		Deep Dive: Space Communications and Surveillance	Deep Dive: Reusability of Launch Vehicles & Launch Vehicles	Deep Dive: Space Situational Awareness	Deep Dive: Impact of Constellations		Deep Dive: Reusability of Launch Vehicles	Deep Dive: Near-Earth Objects	* Boeing Industry Luncheon	PE 4: 50 Ways to Leave Your Earth		Disruption of New Starts on the Asia Pacific Space Turf		Opening the Market Aperture for New Start Opportunities		Space 4.0 – Building Space Entrepreneurship Ecosystems		HLL 1: Flight by Light with Bill Nye LightSail™ & Innovations in Solar Sailing				
Wednesday 27 Sept	IDEA "3G" Breakfast	PE 5: Next Generation PE - Innovative Methods for Assured and Secure Access to Space Resources		The evolving relation between Public Procurement and Industry on Space and Defence programmes			The Role of Space Agencies in Support of Emerging Countries			* IDEA "3G" Diversity Luncheon		PE 6: MoonMars Villages for Science, Technology, Innovation, Cooperation, Security and Inspiration		A Low Earth Orbit Space Station - the Way Forward		Deep Space Exploration Post 2024 Scenarios (ASI)				PE 7: Next Generation On-Orbit Satellite Servicing and Refueling Programs		WSA HLL - Charles Bolden		
				Space Technology Education and Training Exchange Platform Open to the World	Spaceport Norway 2018: Towards a Space Society	SpaceTech – Space Systems and Business Engineering	OG Summit – Space Diplomacy in the Age of NewSpace	Shaping the Future with Ariane 6						Reducing Uncertainty Gaps – Inducing Space Environment Dynamic with Benefits for a Country's Economy	New Trends of Commercial Developments in Space Domain	SpaceGen Entrepreneurs	The 50th Anniversary of the Outer Space Treaty: Global Governance for Space Activities							
Thursday 28 Sept	IAF IDEA/WIA-E Breakfast	PE 8: From Up There to Down Here Big Space Data Driving Sustainable Development and Economic Growth on Earth		Promoting Space Access through Global Partnerships	Space Mining – Law, Politics, Perspectives	The Growth Challenges of Space Start-Ups: the Role of Private and Public Investors				IP Award Ceremony	The Status of Citizen Science in Global Earth Observation		Understanding the Universe and improving life on Earth with Australian Astronomy		Earth Observation Trends and Paradigm Shifts		The Value of being Part of Space Exploration		Space Optics: Next Steps of Optical Communications Enhancing Our Interconnected World		HLL 2: The Great Barrier Reef Assessing its health from space			
				Advancing Australia's Space and Spatial Capability	Pushing the Boundaries of Research – International Science 'Made in Germany'	Reusable Launch of Small Satellites Using Scramjets				IP Award Ceremony	ESA's Jam Session & Moon Village Kick-Off		Orbital ATK and the Future of Space Logistics		Space and Sustainable Development Goals (SDGs)		New Generation Recoverable Satellite – An Advanced Space Platform for Space Environment							
Friday 29 Sept	We Are Explorers: Mars Base Camp & the Deep Space Gateway LBN	When Innovation Becomes Sustainable LBN	Astronauts Event			Global Real Time Data Exchange Satellite Constellation Project					Space X - Elon Musk Presentation				Closing Ceremony									

*Upon Invitation Only

HIGHLIGHT LECTURES, PLENARIES and LATE BREAKING NEWS

PE/HLL	Timing	Title	Location
PE 1	Monday 13:30 - 15:00	Heads of Agencies	Adelaide Convention Center - Hall C & Hall D
PE 2	Monday 18:15 - 19:30	The Space Industry's Economic and Social Impact	Adelaide Convention Center - Hall C & Hall D
PE 3	Tuesday 08:30 - 09:30	Space Traffic Management – Global Challenge to Protect Strategic Domain of Space	Adelaide Convention Center - Hall C
PE 4	Tuesday 13:30 - 14:30	50 Ways to Leave Your Earth	Adelaide Convention Center - Hall C
HLL 1	Tuesday 17:45 - 18:45	Flight by Light with Bill Nye LightSail™ & Innovations in Solar Sailing	Adelaide Convention Center - Hall C
PE 5	Wednesday 08:30 - 09:30	Next Generation PE_Innovative Methods for Assured and Secure Access to Space Resources	Adelaide Convention Center - Hall C
PE 6	Wednesday 13:30 - 14:30	Moon/Mars Villages for Science, Technology, Innovation, Cooperation, Security and Inspiration	Adelaide Convention Center - Hall C
PE 7	Wednesday 17:45 - 18:45	Next Generation On-Orbit Satellite Servicing and Refueling Programs	Adelaide Convention Center - Hall C
WSA	Wednesday 18:45 - 19:30	WSA HLL - Charles Bolden	Adelaide Convention Center - Hall C
PE 8	Thursday 08:30 - 09:30	From Up There to Down Here Big Space Data Driving Sustainable Development and Economic Growth on Earth	Adelaide Convention Center - Hall C
HLL 2	Thursday 17:45 - 18:45	The Great Barrier Reef Assessing its health from space	Adelaide Convention Center - Hall C
LBN	Friday 07:30 - 08:30	We Are Explorers: Late-Breaking News About Mars Base Camp and the Deep Space Gateway	Adelaide Convention Center - Hall C & Hall D
LBN	Friday 08:30 - 09:00	When Innovation becomes sustainable – Sky and Space Global conducted first ever voice call using its nano satellites	Adelaide Convention Center - Hall C & Hall D

IAC 2017 TECHNICAL SESSIONS

The Full Technical Programme for IAC 2017 is available at: <https://iafastro.directory/iac/browse/IAC-17/>

Time / Room (Monday - Thursday)	2017-09-25	2017-09-26	2017-09-26	2017-09-27	2017-09-27	2017-09-28	2017-09-28	Time / Room (Friday)	2017-09-29	2017-09-29
	15:15-18:15	09:45-12:45	14:45-17:45	09:45-12:45	14:45-17:45	09:45-12:45	14:45-17:45		09:00-11:00	11:00-13:00
Hall N	A3.1	A3.2A	A3.2B	A3.3A	A3.3B	A3.4A	A3.5	Hall N	A3.2C	A3.4B
Hall O	D2.1	D2.2	D2.7	D2.3	D2.4	D2.5	D2.6	Hall O	D2.8/A5.4	D6.2/D2.9
Hall A	C1.1	C1.2	C1.3	C1.4	C1.5	C1.6	C1.7	Meeting Room L6	C1.8	C1.9
Hall E1	A6.1	A6.2	A6.4	A6.3	A6.9	A6.5	A6.6	Hall E1	A6.7	A6.8
Panorama Room 1	B4.2	B4.1	B4.3	B4.4	B4.5	B4.6A	B4.6B	Panorama Room 1	B4.8	B4.7
Hall E2	B1.1	B1.2	A5.2	B1.3	A5.1	B1.6	B1.5	Hall E2	B1.4	B4.10/A6.10
City Room 3	B3.1	B3.2	B3.3	B3.4/B6.5	C3.3	B3.5	B3.6/A5.3	City Room 3	B3.7	B3.8/E7.7
Hall E3	C4.1	C4.2	C4.9	C4.3	C4.4	C4.5	C4.6	Hall E3	C4.7/C3.5	C4.8/B4.5A
Panorama Room 2	C2.1	C2.2	C2.3	C2.4	C2.5	C2.6	C2.7	Panorama Room 2	C2.8	C2.9
City Room 1	C3.1	C3.2	E5.1	E5.2	E5.3	E5.4	E5.5	City Room 1	B6.3	E8.1
City Room 2	A1.1	A1.2	A1.3	A1.4	A1.5	A1.6	C3.4	City Room 2	A1.7	A1.8
Panorama Room 3	E1.6	E1.3	E1.4	E1.8	E1.5	E1.7	E1.9	Panorama Room 3	E1.1	E1.2
Riverbank 3	D1.1	E6.1	D1.2	D1.3	D1.4A	D1.4B	D4.3	Riverbank 3	D1.5	D1.6
Meeting Room L2	E4.1	E7.1	E7.2	E7.3	E7.4	E4.3A	E4.2	Meeting Room L2	E7.5	E4.3B
Meeting Room L3	B2.1	B2.2	B2.3	B2.4	B2.5	B2.6	B5.2	Meeting Room L3	B5.1	B2.7
City Room 4	B6.1	E3.1	E3.2	E3.3	E3.4	E3.5/E7.6	B6.2	City Room 4	E3.6	C4.10
Hall B	A2.1	A2.2	A4.1	A2.3	A2.4	A4.2	A2.5	Meeting Room L1	A2.6	A2.7
Riverbank 5	A7.1	A7.2	E6.2	D5.1	E6.3	D5.2	D5.3	Riverbank 5	D5.4	A7.3
Riverbank 4	D4.1	D3.1	E2.1	D3.2	D4.2	D3.4	D3.3	Riverbank 4	D4.5	D4.4
Riverbank 2	E2.3/GTS.4	D6.1	B4.9/GTS.5	E2.2	B3.9/GTS.2	D6.3	B2.8/GTS.3	Riverbank 2	E2.4	

Category A Science & Exploration A1--> A8
Category B Applications & Operations B1--> B6

Category C Technology
Category D Infrastructure
Category E Space and Society

C1--> C4
D1--> D6
E1--> E8

Technical Programme:

http://www.iafastro.org/wp-content/uploads/2017/09/IAC2017_TP_Full-Doc_Sept201718_FINAL_online.pdf



MEETING SCHEDULE

Time	Event	Room
Friday, 22 September 2017		
08:00-18:00	Space Generation Congress	University of Adelaide
09:00-16:00	Educators Professional Development Workshop	Hetzel Lecture Theatre of the State Library of South Australia
Saturday, 23 September 2017		
08:30-17:40	Space Generation Congress	University of Adelaide
09:00-16:00	Educators Professional Development Workshop	Hetzel Lecture Theatre of the State Library of South Australia
09:30-16:30	International Project/Programme Management Committee	Skyway Room 1
10:00-12:00	IAF/IAA/IISL Advisory Committee on History Activities Meeting	Riverbank Room 8 b
10:00-12:30	IAF Finance Committee Meeting	Riverbank Room 1
10:00-13:00	IAA Space Debris Committee Meeting	Panorama Room 1
12:30-13:00	IAA Commission Plenary Session	Panorama Room 2
13:00-15:00	IAF Technical Activities Committee Meeting	Riverbank Room 6 a
13:00-15:00	IAF Next Generation Coordination Committee Meeting	Skyway Room 2
13:00-16:00	IAA Commission 1 Meeting Space Physical Sciences	Panorama Room 1
13:00-16:00	IAA Commission 2 Meeting Space Life Sciences	Panorama Room 3
13:00-16:00	IAA Commission 3 Meeting Space Technology & System Development	Panorama Room 2
13:00-16:00	IAA Commission 4 Meeting Space System Operation & Utilization	City Room 1
13:00-16:00	IAA Commission 5 Meeting Space Policy, Law & Economy	City Room 2
13:00-16:00	IAA Commission 6 Meeting Space & Society, Culture & Education	City Room 3
15:00-16:30	IPC Steering Group Meeting Part 1	Riverbank Room 6 a
16:00-18:00	IAA Scientific Activities Committee Meeting	City Room 3
17:00-18:30	IPC General Meeting	Hall M
Sunday, 25 September 2016		
08:00-18:00	IPMC YP Workshop	Meeting Room L 2&3
08:15-13:30	Cross-Cultural Communications and Presentation Workshop	City Room 3&4
09:00-11:45	IAA Academy Day	Panorama Room 1&2
09:00-12:00	IAF Space Education and Outreach Committee Meeting	Meeting Room L 1 b
09:00-13:00	IAC Hosts Summit	Riverbank Room 3
09:30-17:00	International Meeting for Members of Parliaments	Hall M
10:00-16:00	SGAC Workshop on Communicating Space Activities Using Visual Stories	Riverbank Room 1
10:00-17:30	SGAC Workshop on Human Space Settlement	Meeting Room L 1 a
11:00-12:00	IAC 2017 Kick-off Press Conference	Panorama Suite
12:00-13:00	Press briefing	Panorama Suite
12:00-14:00	IAF Workforce Development / YPP Meeting	Riverbank Room 6 b
13:00-14:00	IAA Regular Meeting	Panorama Room 1&2
13:00-15:00	IAF Space Life Sciences Committee Meeting	Riverbank Room 8 a
13:00-15:00	IAF Earth Observation Committee Meeting	Meeting Room L 1 b
14:00-17:00	IAF Astrodynamics Committee Meeting	Skyway Room 1
14:00-17:00	IAF Bureau Meeting Session 1	Panorama Suite
14:00-18:00	IAF Materials and Structures Committee Meeting	Riverbank Room 6 b
14:15-16:15	Next Generation Plenary Preparatory Meeting	Skyway Room 2
14:15-17:30	IAA Academy Day	Panorama Room 1&2
15:00-17:00	IAF Space Propulsion Committee Meeting	Riverbank Room 8 a
15:00-17:00	IAF GEOSS Subcommittee Meeting	Meeting Room L 1 b
15:00-17:00	IAA Board of Trustees	Panorama Room 3
16:00-18:00	IAF Commercial Spaceflight Safety Committee Meeting	Riverbank Room 8 b
16:00-19:00	IAF Space Transportation Committee Meeting	Riverbank Room 6 a
16:30-18:30	SGAC Advisory Board Meeting	Riverbank Room 1
18:00-19:00	IAF ESL/YSL Meeting	Riverbank Room 6 b
19:00-19:30	YP Networking Event	Hall M



Time	Event	Room
Monday, 25 September 2017		
07:00-09:00	IAF Space Exploration Committee Meeting	Riverbank Room 6 a
08:00-09:00	Heads of Agencies Plenary Preparatory Meeting	Skyway Room 1
09:00-10:30	Opening Ceremony	Hall A,B,C&D
10:45-11:45	Exhibition Opening and VIP Tour	Hall F-K
11:00-13:30	IAF Space Systems Committee Meeting	Skyway Room 1
12:15-14:15	International Space Education Board Meeting	Skyway Room 2
13:00-18:00	IISL Board of Directors	Riverbank Room 1
13:30-15:00	PE 1 - Heads of Agencies	Hall C&D
15:00-15:15	GNF Opening	Hall C&D
15:00-18:00	IAF General Assembly	Hall M
15:15-16:00	Heads of Agencies Press Conference	Panorama Suite
15:15-16:15	GNF: Commercial Nano-Satellites Constellation – The SAS Story	Hall C&D
16:00-18:00	IAF Space Economy Committee Meeting	Skyway Room 3
16:45-17:30	GNF: Strategic Partnership of Energia and Boeing in Space	Hall C&D
17:30-18:00	GNF: EU Ambitions in Space	Hall C&D
17:30-18:15	International Space Education Board 2017 Meeting	Riverbank Room 8 b
17:45-18:45	NASA Meeting with US Students & YPs	Riverbank Room 8 a
18:00-18:15	GNF: What Future Role for Europe in Exploration?	Hall C&D
18:15-19:30	PE 2 - Host Plenary - The Space Industry's Economic and Social Impact	Hall C&D
Tuesday, 26 September 2017		
07:30-09:30	Australian National University Meeting	Riverbank Room 8 a
08:00-12:00	International Space Educator Board Meeting	Riverbank Room 6 a
08:00-18:00	IAF Nomination Committee	Skyway Room 5
08:30-09:30	PE 3 - Space Traffic Management – Global Challenges to Protect the Strategic Domain of Space	Hall C
09:00-10:00	IAF Congress and Symposia Advisory Committee Meeting	Skyway Room 2
09:30-10:00	GNF: Deep Dive: Space Communications and Surveillance for National Security	Hall D
09:45-12:45	IAA Seti Permanent Committee Meeting	Riverbank Room 8 b
10:00-10:30	GNF: Deep Dive: Reusability of Launch Vehicles & Small Sats	Hall D
10:00-12:00	IAF Regional Group of Latin America and the Caribbean (GRULAC) Meeting	Riverbank Room 1
10:30-11:00	GNF: Deep Dive: Space Situational Awareness	Hall D
11:00-11:30	GNF: Deep Dive: Impact of Constellations	Hall D
11:00-12:30	Next Generation Plenary Rehearsal	Hall C
11:30-12:00	GNF: Deep Dive: Near-Earth Objects	Hall D
12:00-12:30	GNF: Deep Dive: Clean Space	Hall D
12:00-13:00	IAF Satellite Commercial Applications Committee Meeting	Riverbank Room 1
12:00-14:00	IAF Space Operations Committee Meeting	Riverbank Room 8 a
12:45-14:00	IAA Small Satellite Mission Program Committee Meeting	Riverbank Room 8 b
12:45-14:45	IAA Study Group 3.26 Space Mineral Resources	City Room 4
13:00-14:30	IAA Acta Astronautica Editorial Board Meeting	Riverbank Room 1
13:00-18:00	IISL Moot Court Competition (Semi Finals)	Meeting Room L 1 a&b
13:30-14:30	PE 4 - 50 Ways to Leave Your Earth	Hall C
14:00-16:00	IAF Space Security Committee Meeting	Riverbank Room 8 a
14:00-17:00	International Space Education Board Heads of Education Meeting	Riverbank Room 8 b
14:30-15:30	GNF: Disruption of New Starts on the Asia Pacific Space Turf	Hall D
15:00-17:00	ISEF2 Planning Meeting	Riverbank Room 6 a&b
15:30-16:30	GNF: Opening the Market Aperture for New Start Opportunities	Hall D
15:45-16:45	HLL1 Rehearsal	Hall C
16:30-17:30	GNF: Space 4.0 – Building a Space Entrepreneurship Ecosystems	Hall D
16:30-17:30	IAF Nomination Committee - Open Consultation Session for Members	Skyway Room 5
16:30-18:30	IAF Integrated Applications Technical Committee Meeting	Riverbank Room 1
17:45-18:45	HLL 1 - Flight by Light with Bill Nye LightSail and Innovations in Solar Sailing	Hall C
18:45-19:45	HLL 1 Press Conference	Panorama Suite
19:00-20:00	YP Networking Event	Hall M



Time	Event	Room
Wednesday, 27 September 2017		
08:00-10:00	IAF Knowledge Management Technical Committee Meeting	Riverbank Room 8 a
08:00-18:00	IAF Nomination Committee	Skyway Room 5
08:30-09:30	PE 5 - Next Generation Plenary - Innovative Methods for Assured and Secure Access to Space	Hall C
09:00-18:00	Inter Agencies Space Debris Coordination Committee Meeting	Meeting Room L 1 a
09:15-12:15	World Space Week Association Board of Directors Meeting	Riverbank Room 8 b
09:30-10:30	GNF: Space Technology Education and Training Exchange Platform Open to the World	Hall C
09:30-11:30	GNF: The Evolving Relation Between Public Procurement and Industry on Space and Defence Programmes with Strategic Perspectives Towards Respecting Costs and Schedules on Large Contracts	Hall D
10:00-11:30	IAF Industry Relations Committee Meeting	Riverbank Room 8 a
10:00-12:00	IAF Space Universities Administrative Committee Meeting	Meeting Room L 1 b
10:30-11:00	GNF: Spaceport Norway 2018: Towards a Space Society	Hall C
11:00-11:30	GNF: SpaceTech - Space Systems and Business Engineering	Hall C
11:30-12:00	GNF: OG Summit – Space Diplomacy in the Age of NewSpace	Hall C
11:30-12:30	GNF: The Role of Space Agencies in Support of Emerging Countries	Hall D
12:00-12:30	GNF: Shaping the Future with Ariane 6	Hall C
12:45-14:45	IISL General Assembly	Meeting Room L 2
13:00-15:00	PE 8 Rehearsal	Skyway Room 2
13:00-18:00	IISL Board Meeting	Meeting Room L 1 b
13:30-14:30	PE 6 - MoonMars Villages for Science, Technology, Innovation, Cooperation, Security and Inspiration	Hall C
14:00-17:00	International Space Education Board Heads of Education Meeting	Riverbank Room 8 b
14:30-15:30	GNF: Reducing Diversity Gaps – Inducing Space Environment Dynamic with Benefits for a Country's Economy, Education, Strategy and Sovereignty	Hall C
14:30-16:00	GNF: A Low Earth Orbit Space Station - the Way Forward	Hall D
14:45-15:45	PE 6 Press Conference	Panorama Suite
14:45-18:00	IAF Human Spaceflight Committee Meeting	Riverbank Room 8 a
15:00-17:00	IAF Enterprise Risk Management Committee Meeting	Skyway Room 2
15:30-16:00	GNF: New Trends of Commercial Developments in Space Domain	Hall C
15:30-17:00	IAF Honors and Awards Committee Meeting	Hall M
16:00-17:00	GNF: SpaceGen Entrepreneurs	Hall C
16:00-17:30	GNF: Deep Space Exploration Post 2024 Scenarios	Hall D
16:30-17:30	IAF Congress and Symposia Advisory Committee Interviews with IAC2020 Bidders	Riverbank Room 1
17:00-17:45	GNF: The 50th Anniversary of the Outer Space Treaty: Global Governance for Space Activities	Hall C
17:00-19:00	IAF Knowledge Management Technical Committee Work Group Meeting	Riverbank Room 8 b
17:45-18:45	PE 7 - Next Generation On-Orbit Satellite Servicing and Refuelling Programs	Hall C
18:45-19:30	IAF World Space Award Highlight Lecture: Growing Opportunities for International Cooperation in Science and Astronautics	Hall C
19:30-20:30	YP Networking Event	Hall M
Thursday, 28 September 2017		
08:00-18:00	IISL Moot Court Competition (Finals)	National Court of Australia
08:00-18:00	IAF Nomination Committee	Skyway Room 5
08:30-09:30	PE 8 - From Up There to Down Here Big Space Data Driving Sustainable Development and Economic Growth on Earth	Hall C
09:00-10:30	IAF CLIODN Meeting	Meeting Room L 1 b
09:00-11:00	IAF Space Societies Committee Meeting	Riverbank Room 1
09:00-11:00	IAF Entrepreneurship and Investment Committee Meeting	Skyway Room 2
09:00-11:30	Space Education and Outreach Committee Meeting	Meeting Room L 1 a
09:00-12:30	IAF Bureau Meeting Session 2	Panorama Suite
09:30-10:30	PE8 Press Conference	Hall M
09:30-10:30	GNF: Advancing Australia's Space and Spatial Capability	Hall C
09:30-10:30	GNF: Promoting Space Access through Global Partnerships	Hall D
10:30-11:30	GNF: Pushing the Boundaries of Research – International Science 'Made in Germany'	Hall C
10:30-11:30	GNF: Space Mining – Law, Politics, Perspectives	Hall D



Time	Event	Room
11:00-13:00	IAF Space Museums Committee Meeting	Riverbank Room 1
11:30-12:30	GNF: The Growth Challenges of Space Start-Ups: The Role of Private and Public Investors	Hall D
11:30-12:30	GNF: Reusable Launch of Small Satellites Using Scramjets	Hall C
12:30-14:30	IAA History Committee Meeting	Riverbank Room 6 a
12:45-13:15	Interactive Presentations Award Ceremony	Hall J&K2
12:45-13:45	GNF: The Status of Citizen Science in Global Earth Observation Systems	Hall D
12:45-14:00	IAA/IISL Scientific Legal Liaison Committee Meeting	Riverbank Room 6 b
12:45-14:45	IAA Study Group 3.24 - Road to Space-Elevator Era	Riverbank Room 3
13:00-15:00	IAF Space Communications and Navigation Committee Meeting	Riverbank Room 1
13:15-14:45	Interactive Presentations Session & Cocktail Reception	Hall J&K2
13:30-17:00	International Space Education Board Meeting	Skyway Room 2
13:45-15:15	GNF: ESA DG Jam Session and Moon Village Kick-Off	Hall C
13:45-15:45	GNF: Understanding the Universe and Improving Life on Earth with Australian Astronomy	Hall D
14:00-15:30	Highlight Lecture 2 Meeting	Riverbank Room 6 b
14:45-15:45	GNF: Earth Observation - Trends and Paradigm Shifts	Hall D
15:00-17:00	IPC Steering Group Meeting Part 2	Riverbank Room 1
15:15-15:45	GNF: Orbital ATK and the Future of Space Logistics	Hall C
15:30-17:30	SGAC Executive Council Meeting	Riverbank Room 6 b
15:45-16:45	GNF: The Value of Being Part of Space Exploration	Hall D
15:45-16:45	GNF: Space and Sustainable Development Goals	Hall C
16:00-18:00	Young ESA Diversity Award	Hall K 1
16:45-17:45	GNF: Space Optics: Next Steps of Optical Communications Enhancing Our Interconnected World	Hall D
16:45-17:45	GNF: New Generation Recoverable Satellite — An Advanced Space Platform for Space Environment Utilization	Hall C
17:00-18:00	IAF Committee for the Cultural Utilisation of Space Meeting	Meeting Room L 1 a
17:00-19:00	IAF Astrodynamics Committee Meeting	Skyway Room 1
17:45-18:45	HLL 2 - The Great Barrier Reef Assessing its Health from Space	Hall C
Friday, 29 September 2017		
07:30-08:30	LBN1: We are Explorers: Late-Breaking News about Mars Base Camp and the Deep Space Gateway	Hall C&D
08:30-09:00	LBN2: When Innovation Becomes Sustainable - Sky and Space Conducted First Ever Voicecall Using its Nano Satellite	Hall C&D
09:00-13:00	IAF General Assembly	Hall M
09:30-11:00	GNF: Astronauts Event	Riverbank Room 7&8
11:00-12:00	GNF: Global Real-Time Data Exchange Satellite Constellation Project	Riverbank Room 7&8
13:00-13:30	IAF Bureau Meeting	Riverbank Room 1
14:00-15:00	GNF: SpaceX Presentation by Elon Musk	Hall A,B,C&D
16:00-17:00	Closing Ceremony	Hall A,B,C&D

#MYIAC2017

Dear IAF Community,

During this #IAC2017 in Adelaide you will have the chance to tell us your IAC, who did you meet? which events did you like the most? What was your IAC2017 experience like?

Using the Hashtag #MYIAC2017 publish on Facebook your IAC 2017 Highlight video of max 3 minutes on Thursday 28th at 1pm (13h) Adelaide time (ACST). The most liked video by Friday 29th at 1pm (13h) Adelaide time (ACST) will be shown during the #IAC2017 Closing Ceremony.

Good luck!



INTERNATIONAL PLATFORM FOR DIVERSITY AND EQUALITY IN ASTRONAUTICS

3G GEOGRAPHY • GENERATION • GENDER



IAF IDEA “3G” Diversity Breakfast *during* IAC 2017 in Adelaide, Australia

“First Woman on the Moon”

In continuation of the IAF President’s initiative on fostering the principle of 3G Diversity in astronautics and as an important element of the IAF 3G Diversity Day on 27 September 2017 at IAC 2017 in Adelaide, Australia, the IAF is using its IDEA platform to offer an IAF IDEA 3G Diversity Breakfast to all delegates fo-cusing on the epochal and historic event in mankind’s future of the first woman to set foot on the Moon under the title “First Woman on the Moon”.

Based on the initiative of the International Lunar Observatory Association (ILOA), the organiser of regular Galaxy Forums and IAF member since 2011, and with strong support by the European Space Agency, The American Institute of Aeronautics and Astronautics (AIAA) and Lockheed Martin Corporation, this break-fast event shall provide an opportunity to hear about the perspectives of the first female astronaut set-ting foot on the Moon, the plans of space agencies and industry in advancing a “Moon village” concept with an inclusive participation and the opinions of those who have been and will be the ambassadors of humankind in exploring the universe – our astronauts.

With this event the IAF and its partners wish to draw the attention of a global space community on the long-overdue consideration of the historic significance of the first woman on the Moon as was the first man on the Moon almost 50 years ago, when humanity will reclaim its existence as a multi-world species and at that time become a multi-world civilization – a Moon Village prototype – in peace for all, and for good.

Wednesday, 27 September 2017, 07:00 – 08:30

Adelaide Convention Center, Foyer E

Programme:

- Welcome and Introduction (07:10 – 07:20)
Jean-Yves Le Gall (IAF President)
- Keynote “The Historic Significance of the First Woman on the Moon” (07:20 – 07:30)
Steve Durst (Founding Director of the International Lunar Observatory Association ILOA)
- Keynote “The Moon Village Concept” (07:30 – 07:40)
Jan Woerner (Director General, European Space Agency)
- Keynote “Industry’s Role and Commitment to Supporting a Moon Village Concept” (07:40 – 07:50)
Danielle Richey (Systems Engineer at Lockheed Martin SSC)
- Keynote “The Astronauts’ Perspective” (07:50 – 08:00)
Sandy Magnus (Executive Director of The American Institute of Aeronautics and Astronautics AIAA)
- Concluding Remarks (08:00 – 08:10)
Mary Snitch (IAF Vice President for Diversity Initiatives)
- Networking (08:10 – 08:30)



IAF IDEA “Excellence in 3G Diversity Award” Luncheon during IAC 2017 in Adelaide, Australia

(Participation upon Invitation only)

The “IAF Excellence in 3G Diversity Award” recognizes IAF member organisations (industry, government, academia) worldwide for outstanding contributions to the fostering of “3G” (Geography, Generation, Gender) Diversity within the space sector.

At IAC 2017 this newly created award will be given for the first time. The inaugural winner of this award is the Mohammed Bin Rashid Space Centre (MBRSC) from the UAE. This Luncheon is dedicated to the award ceremony for the first “IAF Excellence in 3G Diversity Award”.



IAF EXCELLENCE IN 3G DIVERSITY AWARD – FIRST AWARD RECIPIENT

This “IAF Excellence in 3G Diversity Award” is intended to recognize IAF member organisations (industry, government, academia) worldwide for outstanding contributions to the fostering of “3G” (Geography, Generation, Gender) Diversity within the space sector. It is an annual award presented at the IAC, but is given only when nominations of exceptional merit are received.

For its exceptional engagement towards diversity, the IAF is proud to present the very first IAF Excellence in 3G Diversity Award to:
Mohammed Bin Rashid Space Centre – MBRSC

The award will be presented during the 68th International Astronautical Congress (IAC) in Adelaide, Australia during the IDEA luncheon.

Wednesday, 27 September 2017, 12:30 – 13:30

Adelaide Convention Centre - Foyer E

Programme:

- Welcome (12:45 – 12:50)
Jean-Yves Le Gall (IAF President)
- Introduction of the IAF 3G Diversity Award (12:50 – 12:55)
Mary Snitch (IAF Vice President for Diversity Initiatives)
- Award Ceremony and Photo (12:55 – 13:00)
- Presentation by the Award winner (13:00 – 13:20)
Mohammed Bin Rashid Space Centre (MBRSC)
- Networking (13:20 – 13:30)



MOHAMMED BIN RASHID SPACE CENTRE – MBRSC

Mohammed bin Rashid Space Centre (MBRSC) was created and established by the Dubai Government in 2015. The Centre is integral to the strategic initiative put in place by the government to inspire scientific innovation, technological advancement, and to advance sustainable development in Dubai and the wider UAE.

The Centre is comprised of a team of leading UAE engineers, analysts and experts all working towards positioning the UAE as an internationally renowned leader within the field of science and technology. By developing new technology, expertise, and intellectual property, it is hoped that the UAE can emerge as a global front runner within the industry.



By utilising Knowledge Transfer, the Mohammed bin Rashid Space Centre mission is reinforced, and vital advancements and information is made available to future generations within the organisation. The Centre's research and development facilities based in Dubai will enable its team to work independently in order to achieve the institution's goal of building a sustainable knowledge economy, set to help drive the UAE forward for decades to come.

Mohammed bin Rashid Space Centre has already accomplished a number of significant achievements, most notably the launches of DubaiSat 1 and DubaiSat 2 – both which continue to orbit the planet capturing stunning imagery beamed back to our headquarters.

With the ongoing preparations for the launch of the KhalifaSat in 2017, and the recent announcement by His Highness Shaikh Mohammad Bin Rashid Al Maktoum for the upcoming unmanned Mars probe currently in the planning stages, the mission is only just getting started.



IAF International Platform for Diversity and Equality in Astronautics IDEA & Women in Aerospace Europe WIA-E are proud to invite you to a Joint Breakfast

Date: Thursday 28 September
Time: 7:00-8:30
Venue: Foyer E, ACC

A Gender Diverse Space Workforce – A Key for Unlocking Imagination, Fostering Innovation and Strengthening Security

Introduction:

Jean-Yves Le Gall (President IAF), **Luisella Giulicchi** (President WIA-E)

Panelists:

Pascale Ehrenfreund, Chair of the DLR Executive Board

Roberto Battiston, President of the Italian Space Agency

Sarah Jane Pell, Australian artist, researcher and occupational diver

Jan Woerner, ESA Director General

Moderator:

Barbara Imhof (WIA-E Treasurer and Director of Corporate Identity)

Closing remarks:

Mary Snitch (IAF VP for Diversity Initiatives)



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**Dear IAC 2017
Delegates,**

**We are pleased
to inform you
that you will have
access to your
daily IAC 2017
programming
also in your
hotel!**



GLAC 2018

It is with great pleasure that the IAF welcomes you to its upcoming event in the IAF Global Conferences series, the Global Space Applications Conference, GLAC 2018, to be held in Montevideo, Uruguay. This will be the first time ever that IAF takes one of its Global Conferences to South America and also the first time that it organises an event in Uruguay. GLAC 2018 is coorganised together with the Centro de Investigacion y Difusion Aeronautico-Espacial (CIDA-E), a member of the IAF since 1985 and one of ten IAF members from South America.

This conference will be a follow up on GLAC 2014 which was organised in Paris, France. During the 4 years since the previous GLAC, the international satellite-based applications community will have significantly moved forward with their respective planning and developments and it is therefore timely to take stock of the progresses and undertake an outlook to the future of space applications on a global scale, with a specific focus also on developing space nations, such as Uruguay.

GLAC 2018 is designed to encouraging the sharing of programmatic, technical and policy information, as well as collaborative solutions, challenges, lessons learnt, and paths forward among all nations with the desire to improve space applications and their usage. The GLAC 2018 will provide an excellent opportunity to review the state of the art of satellite-based applications, with a focus on:

- Farming and fishing
- Integrated risk management
- Climate
- Natural resources
- Mapping
- Legal Aspects (Legal Regulations)



IAC 2018



The 69th International Astronautical Congress (IAC) will take place in Bremen, Germany. Bremen is truly the "City of Space" in Germany, with its industry and cutting-edge research. Among the many fields of expertise found here are materials sciences and manufacturing technologies, space systems and research, remote sensing, bionics and robotics. The Galileo satellite navigation system and the upper stages of Ariane are just some of the major projects developed in Bremen. The Local Organizer is ZARM, the Centre of Applied Space Technology and Microgravity, part of the Department of Production Engineering at the University of Bremen. Germany has already hosted several successful IACs; in fact, it is one of the countries that have hosted the most IACs



over the years. This will be the sixth IAC organised in Germany since the first International Astronautical Congress in 1952, which was held in Stuttgart. The theme of IAC 2018, #InvolvingEveryone, aligns with IAF's motto "Connecting @II Space People". Please find here the IAC 2018 Call for Papers: the IAF encourages you to submit abstracts for consideration within the sessions which you are interested in making a contribution to.



ISF 2017

Following the great success of the 1st International Space Forum at Ministerial Level (ISF), which took place in October 2016 in Trento, Italy, the IAF and the Italian Space Agency (ASI) are partnering again this year to organise a regional chapter of the ISF in partnership with the Kenya Space Agency (KSA). The 2nd International Space Forum– the African Chapter, which will take place in Nairobi, Kenya, on 28 November 2017, under the title *"Space Science and Academia for Sustainable Development in Africa"*.

The Forum is expected to bring together African Ministers of Education, Science and Research, Heads of Space Agency, representatives of Universities and Academia involved in space activities as well as members of International Space Organisations, with the aim to encourage the discussion on how Space education and technology can support the understanding and exploitation of space benefits for Africa's socio-economic development.

The global Space knowledge can foster the development in higher education, science, technology, research and innovation, eliminating gender disparities and promoting the use of Space applications to protect the African environment, to ensure peace and security, to manage natural resources, diversity, harmony and socio-economic transformations.

The ISF 2017 African Chapter will focus on three topics: **Capacity Building, Environmental Sustainability and Space Partnerships**, through which the Heads of delegation will develop their statement.

The program of the Forum will see keynote addresses from distinguished speakers and a debate on the contribution of Science and Academia to the development of the African space sector with the aim of: contributing to socio-economic development, improving the number of African professionals in the space sector, promoting sustainable environmental practices and enhancing space cooperation as a driver for capacity building in Africa, thus also contributing to UNISPACE+50 and to the implementation of the UN agenda 2030 and the African Union Agenda 2063.

During the Forum, the Authorities and delegates will also adopt the **AFRICA Page** to be added to the Trento International Space Statement adopted in 2016.



We are happy to announce a launch of the **Innovative Space Business Platform IAFconnect.org** – it's a new Internet resource that will facilitate the search for investments and subcontractors, as well as establishment of new partnerships and entering new markets. The issue of reducing time and cost necessary to implement space projects is always important. As a consequence, large and well established companies have started to look for and use the services of smaller companies and organizations, partly outsourcing work. This trend is well justified by the fact that presently we are witnessing an emergence worldwide of multiple start-ups and initiatives ready to offer efficient out-of-the-box solutions. At the same time, newcomers to the space market are interested in validation of their

technologies, obtaining financial support and technical expertise on certain issues etc. – something the “big players” can provide them with.

There are good reasons to match the needs and expectations of the established companies of the space market and new firms. That’s exactly what **IAFconnect.org** is intended to do.

At **IAFconnect.org** you will find a database of space technologies, information on international space grants and programs, updates on the latest space news and be able to communicate with space experts from all over the world.

We look forward to see you at IAFconnect.org!

The idea was proposed by IAF Vice-President -Industry Relations Dr. Alexander Degtyarev (Yuzhnoye SDO) within the framework of the IAF Global Innovation Agenda 2016-2019 developed by IAF President Dr. Jean-Yves Le Gall.

#ThisDayInSpace

Dear IAF Community,

the IAF launched a new initiative named **#ThisDayInSpace** to commemorate our History, our People, our Achievements and to celebrate our Spatial identity. It is a series of short videos about all of us.



You can watch them here: https://www.youtube.com/watch?v=YgXxOlPGcA&list=PL-mSQLPEXwutyKLcu96npTld-_a9SD1ba



Modular Adaptive Production is Winner of Airbus Space Challenge



The INNOspace Master competition „Space 4.0 – new ideas for the next space generation“ encouraged proposals for new products, services and business models in emerging space markets. More than 146 participants in 66 teams from ten countries submitted their innovative approaches under auspices of German Minister of Economics Zypries. The winning project in the Airbus Space Challenge was proposed by University Würzburg's spin-off company Zentrum für Telematik (ZfT), addressing automation methods based on advanced robotics for production of larger quantities of satellites. Modern automation concepts from „industry 4.0“ are transferred to satellite production. Mega-constellations demand disruptive changes in assembly methods compared to classical manufacturing of single satellites. Nevertheless they need to be compliant with the extreme quality requirements in space and the extreme space operations environment. „Thus, there is huge potential for introduction modern automation and robotics to increase efficiency. In the future, also in the complex assembly of satellites will be provided specific variants of a standard product.“ summarizes ZfT-president Prof. Dr. Klaus Schilling. This will be realized on ZfT's industry 4.0 demonstrator plant, which was initially addressing automotive parts and will now be adapted for modular satellite production.

Benefits:

- Integrated testing and production systems increase lot sizes and quality
- Modularization and standardization in electronic production reduces overall system complexity, which also simplifies the production process



The future modular adaptive production in space is celebrated by (from right to left):

Dr. Johannes von Thadden (Senior Vice-President, Member of board Airbus DS GmbH), Prof. Dr. Pascale Ehrenfreund (chair of the board of DLR), Ms. Grazia Vittadini (Head of Engineering Airbus Defence and Space) and Prof. Dr. Klaus Schilling (President Zentrum für Telematik)



Human-robot cooperation in integration of satellites. Turntable test equipment for simulation of dynamics in the background

For further questions please contact: Press department, Zentrum für Telematik, Magdalene-Schoch-Str.5, 97074 Würzburg, Tel. 0931-615 633 10, e-mail sekretariat@telematik-zentrum.de

Youth Space Camp and Space Academy in Hungary

We have a busy summer behind us at the Hungarian Astronautical Society (MANT), a civil association of space professionals and enthusiasts, an IAF member since 1959. Our annual series of Space Camps visited the village of Bakonybél famous of its scenic hilly landscape, a national park, and the recently established Pannon Observatory. This public observatory and astronomical education centre hosted nearly 30 participants at ages of 13–18 years. The week-long program included lectures by renowned space experts, team work for designing sports equipment for use in space, sky watching, planetarium show, and social activities. MANT summer Space Camps have been organized since 1994.

Building on the success of the previous two events in 2015 and 2016, we continued the series of Hungarian Space Academy in Gödöllő in August 2017. The 4-day event was attended by university students and young professionals passionate about space exploration – a mixture of engineers, physicists, chemists, biologists and others. The target age group of Space Academy is 18–35 years. The goal is to train the future generation of space researchers and to strengthen their professional and personal ties. Every year there is a main discussion topic and a related team work. In 2017, the participants developed a concept for a potential CubeSat mission. As in previous years, the Space Academy was organized in collaboration with the Space Generation Advisory Council.

This year our Society could sponsor the participation of one Hungarian student at the prestigious Alpbach Summer School held in Austria in July.



The Summer School Alpbach 2017

This year's edition of the Summer School Alpbach was held from 18 to 27 July on the topic "Dust in the Universe".

60 students and graduates in engineering and science from 19 ESA member, associated and cooperating states attended stimulating lectures on dust in the Universe, its composition and structure and associated scientific challenges, justifications why and how to observe dust remotely.

Students were split into 4 teams and worked intensely to design a space mission. They competed to define a preliminary end-to-end design of a spacecraft and its scientific instruments as well as the mission and science operations.

The following 4 missions were presented to a jury of experts and awarded as follows:

Team GREEN – Magrathea: Magnificent Analysis of Grains Research At Tremendously High and Exciting Altitude: Dust growth experiment in micro-gravity conditions: best technical case and best presentation

Team ORANGE – FROST (Far-infraRed Observation Spectroscopy Telescopes): best science case

Team RED – EREBUS (EuROpean Extinction BUmp Survey): most competitive mission

Team BLUE – PAHST (Polycyclic Aromatic Hydrocarbons Space Telescope): most ambitious mission

The PAHST mission was chosen to be further studied during the Post-Alpbach Summer School event from 20 - 24 November 2017 at ESA Academy's Training and Learning Centre in ESA Redu Centre, Belgium.

The Summer School Alpbach is organised by FFG and co-sponsored by ESA and the national space authorities of its member countries. A traditional partner is the International Space Science Institute (ISSI). It is also supported by Austrospace, the association of Austrian space industries and research institutions. EuroPlanet offered support for student grants.



Eurisy brings satellite applications closer to users in Health& Ageing, Mountain Search & Rescue and Cities



Eurisy, a Paris based association of space agencies, continues to explore and tap into new user communities around Europe. Earlier this year, Eurisy organised its first event dedicated to Health & Aging topics. Entitled "**Satellite Services for Future Health**", the day's discussions focussed on telemonitoring, air pollution and connected solutions to empower independent living. The event brought public and private representatives together to explore how satellite-based services and data can support stakeholders working in these fields. Market entry barriers, the need to cluster demand and overlay new tech to existing services were among the main messages expressed by users (presentations and outcomes are available here). Building on a first 2016 "**Satellite Service for the Alps**" edition, Eurisy has also worked to survey civil protection and search and rescue organisations in the Alps to get a deeper insight into how satellite tech can support emergency calls, improve team coordination and map risk in remote alpine areas. The 2017 edition focused on Search & Rescue will take place on 11 October in Brixen,

Italy in conjunction with the International Mountain Summit. Eurisy will take this opportunity to discuss survey results and consolidate a community of users around shared interest. From Alpine remote landscapes to bustling cities, Eurisy goes north to attend the Nordic Edge Expo in Stavanger this September with a session on available satellite-based services to improve city management.



The Space Generation Advisory Council (SGAC)

The Space Generation Advisory Council (SGAC) will hold its 16th Space Generation Congress (SGC) from the 21 – 23rd September 2017, in Adelaide, Australia in conjunction with the International Astronautical Congress. SGC is SGAC's annual conference bringing together top young minds from around world to focus on key space topics. This year, 150 selectively delegates from over 40 countries will attend the event to deliberate and discuss key issues crucial to the future of the global space industry. This year, SGAC is proud to offer over 90 scholarships to students and YPs to enable them to attend both SGC and IAC in Adelaide.

In addition to the 16th SGC, SGAC will host a number of events in Adelaide, including:

- 16th Annual Space Generation Closing Dinner (Saturday, 23rd September 2017)
- SGAC Workshop on Human Space Settlement (Sunday, 24th September 2017)
- Communicating Space Activities Using Visual Stories in partnership with IAF's Space Education and Committee (SEOC) (Sunday, 24th September 2017)
- SGAC Booth Reception in partnership with Space Foundation and Australian Youth Aerospace Association (Tuesday, 26th September)
- SGAC's SpaceGen Entrepreneurs event and cocktail reception (Wednesday, 27th September)
- GNF panel in partnership with European Space Agency - The growth challenges of space start-ups: the role of private and public investors (Thursday, 28th September 2017)

For more information, please email info@spacegeneration.org



ASTROSCALE



ASTROSCALE has been able to get things off to a good start in the first half of 2017. Final acceptance tests are carried out with IDEA OSG 1 - which aims to monitor and track sub-millimeter sized debris - to have a successful launch from end of this year to early next year. ELSA-d, that has started from defining the mission requirement, has incorporated detailed designs.

UK Office Announcement



ASTROSCALE set up a UK office in March 2017, and here is how it looks! The main focus of AstroScale LTD is business development, regulatory affairs, and later, R&D and manufacturing. The office is located in Harwell, a recognized hub for space-related companies.

As of business building, ASTROSCALE has been successfully recruiting pinpoint personnel the past few months from raising recognition. Furthermore, former NASA executive Christopher

Blackerby is joining from the second quarter as COO. ASTROSCALE is successfully spreading out rapidly to the global market with extremely unusual events. Another news is we now have an office in UK and it is located in Harwell, a recognized hub for space-related companies. ASTROSCALE UK office will play key roles in mission licensing, business development, satellite operations as well as R&D.

Finally, ASTROSCALE has raised \$25M in Series C in the end of June, a total of \$53M to date. The press conference held in July has been covered widely domestically and internationally, recognizing anew the growing awareness of space debris. ASTROSCALE is honored to execute this mission with our great shareholders.

Leadership in ASTROSCALE



Space Policy Institute at the Elliott School for International Affairs

This year marks the 30th anniversary of the George Washington University Space Policy Institute's Charter. SPI hosted a number of guest lectures from the Planetary Society, King's College London, as well as the large *The 2017 Humans to Mars Summit* event. Our students have recently published papers for the Aerospace Security Project, the New Space Journal, and the Huffington Post. Additionally, SPI faculty have published articles in many professional journals and have been interviewed and quoted in

national and international media outlets. This past summer SPI students have worked on space policy issues in organizations and government agencies such as the National Aeronautics and Space Administration, the European Space Policy Institute, the Center for Strategic and International Studies, Secure World Foundation, the Defense Advanced Research Projects Agency, the United Nations Office of Outer Space Affairs, and in consulting and corporate positions. The Institute now has two faculty members on leave, Professor Scott Pace, is now the Executive Secretary of the newly revived National Space Council, and Professor Pascale Ehrenfreund, is serving as the Chair of the German Aerospace Centre (DLR).

ROSCOSMOS



On September 27, at 7 pm, as part of the International Astronautical Congress, ROSCOSMOS (Russian Federation) will host an event dedicated to the start of humanity's space era — the launch of the first artificial Earth satellite. The General Director of ROSCOSMOS State Corporation and the specialists of Russia's aerospace industry will share the country's plans for international cooperation in space and talk about the prospects of joint Moon exploration. The event will also introduce the unique Cosmos 360 project.

In Memoriam: Professor Amnon Ginati



It is with great sadness that the International Astronautical Federation informs that our colleague, Professor Amnon Ginati, passed away on Thursday 27 July after a long-term illness.

He was an active, long-term member in the IAF Community. We are thankful for his outstanding contributions to the IAF throughout the years. Most notably he was the Vice-Chair of the Committee on Integrated Applications and he was also of great support for the UN/IAF Workshop.

Amnon who worked at the European Space Agency (ESA) was an energetic and passionate person. He was very creative and capable of anticipating the evolutions of the space sector; the successful Integrated Applications Promotion (IAP) programme will always remain his legacy.

Our deepest condolences go out to his family in this difficult time, we wish them strength and courage.

Interview with Senator Martin Günthner, Minister of Economic Affairs, Labour and Ports



Senator Martin Günthner was born in 1976 in Bremerhaven, where he still lives today. He studied cultural history of Eastern Europe, history and philosophy at the University of Bremen and graduated as PR-advisor (DPRG), Deutsche Public Relations Gesellschaft in 2005.

During his political career, among other things he was member of the Bremerhaven City Council from 1997 to 1999, member of the Bremen State Parliament from 1999 to 2010 and serves as Minister of Economic Affairs, Labour and Ports as well as Minister of Justice and Constitution from 24/2/2010 onwards.

1. What does organizing a prime event such as the IAC really mean?

For Bremen, the German “City of Space”, it is a great opportunity to organize the IAC again and to show the international space community how much Bremen’s space sector has developed since our last IAC in 2003. Furthermore, we are aware that also the IAC itself has developed into an even larger and more versatile event during the last 15 years.

Therefore, we are lucky that Professor Marc Avila and his team from the Center of Applied Space Technology and Microgravity (ZARM) have taken over the role of the local organizer. Especially with an experienced and well connected partner like ZARM, but also with the other players in our organizational structure and in particular with the members of our “Team Germany”, we are convinced that every detail will be taken care of.

2. Can you describe the ‘Team Germany’?

The IAC 2018 will take place in Bremen, but is not a regional, but a national event with high importance for the whole space community in Germany.

Therefore, the German Federal State of Bremen is extremely privileged to have gathered important space actors like the German Aerospace Center (DLR), OHB, Airbus Defence and Space, ArianeGroup, MT Aerospace and ZARM together in order to support the IAC 2018.

Our main objective is to intensify our common efforts to distinguish the IAC as the key event of the global space community and to present Germany as a modern space nation.

3. Why did you choose such an interesting and empathic theme like ‘#InvolvingEveryone’?

With the theme ‘#InvolvingEveryone’ we want to share our vision of a more diverse space sector and the IAC 2018 is a great chance

to share it with thousands of scientists and space professionals from around the world. We want to place special emphasis on equal opportunities within the global space network - for the new generation of space experts, for new space countries and start-up companies and for a stronger representation of women. Ideally, this approach, that also complements the “3G” initiative by IAF president Le Gall, will be reflected in the distribution of plenary events.

4. What are the main distinctive features of the IAC 2018 in Bremen that will make it special?

First of all, we had a great ‘team spirit’ during the phase of proposal for the IAC 2018 within the group of persons and institutions that were involved. And after winning the congress for Bremen and Germany, the formation of “Team Germany” still reflects this spirit. I am sure, that this special approach and this unity will also be visible in 2018.

Secondly, the opportunity for congress attendees to meet the people behind the scenes and visit space experts at their work places and laboratories are beyond comparison in Bremen. You can find major European players here in Bremen – ranging from space research to space industry – and all of them will be happy to welcome the IAC delegates.

Moreover, there is one project beginning in January 2018 that I am especially enthusiastic about: the “Bremen Space Year”! With more than 80 individual events, the city of Bremen is trying to share the IAC 2018 experience with the public, to raise interest in space themes in general and to get more young people thinking about space as a future career.

5. Would you like to give a message to the Young Space Generation to encourage them in their work and to attend the IAC 2018?

During the IAC 2018, there will be several events for young people to build international networks, meet new people and get in contact with potential partners and employers. For example, we have established a new kind of technical visit program as well as a theme party organized by young professionals from Bremen for students and young professionals from all over the world. I would like to use this opportunity to invite the Young Space Generation to come to Bremen to experience, what a great agglomeration of space industry and research we have, what work opportunities and business contacts we can offer and also what a great place to live this city is. See you all in Bremen in 2018!



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The next newsletter will be issued in December 2017