IAC 2017 HIGHLIGHTS

UNLOCKING IMAGINATION, FOSTERING INNOVATION AND STRENGTHENING SECURITY
The 68th International Astronautical Congress (IAC) is now over and it was truly an impressive event that effortlessly surpassed all expectations. More than 4,400 delegates from 72 different countries attended the Congress in Adelaide, and I think all of you will agree it was a fantastic week!

IAC is the world’s premier space event and it keeps growing from year to year. IAC 2017 had the most packed programme we have ever featured. Some of the main highlights included:

- Bill Nye “The Science Guy” recounted the inspiring story of the Lightsail® solar sailing spacecraft.
- Charles Bolden, our IAF World Space Awardee, gave an excellent Highlight Lecture on how to grow opportunities for international cooperation in science and astronautics.
- Lockheed Martin spoke about the Mars Base Camp and the Deep Space Gateway projects.
- And for the second time, following on from the previous IAC in Guadalajara, Elon Musk from SpaceX did us the honour of paying a visit to update us on his plans for Mars.

The first well-deserved winner of our IAF Excellence in 3G Diversity Award was the Mohammed Bin Rashid Space Centre. This initiative is part of the IDEA 3G platform, which aims to foster the important principle of Gender-Generation-Geography diversity in astronautics.

But of all the events that took place during IAC 2017, one of the historic outcomes was that Australia finally received the official endorsement to establish its own space agency.

This small booklet of pictures has been prepared to capture all the highlights of this astonishing week. Adelaide has certainly put the bar very high for coming IACs, and we know our German hosts are already up for the challenge.

I hope you will enjoy this booklet full of memories from the 68th IAC and look forward to welcoming you all to IAC 2018 in Bremen!

Jean-Yves Le Gall
President
International Astronautical Federation

WELCOME MESSAGE

PARTICIPANTS DISTRIBUTION

IAC 2017

- 4472 Delegates
- 72 Countries

- 24 % WOMEN
- 76 % MEN

- 9 % >60 years
- 54 % 35-60 years
- 37 % <35 years

- 8 Plenaries
- 180 Technical Sessions
- 3 Highlight Lectures
- 1700 Technical Papers
- 42 GNF Events
- 280 Interactive Presentations
- 7 Press Conferences
- 2 Late Breaking News

More than 60 Exhibitors
Numerous Networking & Social Events
PRE-CONGRESS ACTIVITIES

IAF BUREAU MEETING
INTERNATIONAL MEETING FOR MEMBERS OF PARLIAMENTS
IAF TECHNICAL AND ADMINISTRATIVE COMMITTEE MEETINGS
IPC GENERAL MEETING
IAC HOSTS SUMMIT
CROSS CULTURAL COMMUNICATIONS AND PRESENTATION WORKSHOP
IPMC YOUNG PROFESSIONALS WORKSHOP
IAC KICK-OFF PRESS CONFERENCE
EDUCATORS PROFESSIONAL DEVELOPMENT WORKSHOP

22-24 September 2017
MONDAY

International Astronautical Federation (IAF)

Monday 25 September 2017
Monday 25 September 2017

EXHIBITION OPENING
PLENARY 1: Heads of Agencies

Monday 25 September 2017

International Astronautical Federation (IAF)
PLENARY 2:

THE SPACE INDUSTRY’S ECONOMIC & SOCIAL IMPACT

WE HAVE 0.8% of the GLOBAL SPACE ECONOMY

SPACE IS A TOOL for STEM Education

WE CAN LEVERAGE SPACE to inspirational environment for Education

THE KEY to SUCCESS is Funding consistency in the PLAN

WE DO SPACE because it is an expression of being human, part of our DNA!

WE ARE NATIONAL SPACE AGENCY = have the potential to shape the future

For me, it is about affiliation, cooperation, fascination, applications & hardware

ENSPERING THE NEXT GENERATION = PURSUE A CAREER IN SPACE is Critical

WE HAVE 0.8% of the GLOBAL SPACE ECONOMY

FEEDBACK FROM YOUTHS...did they attend? The more science they do, the more they want MORE

WE ARE NATIONAL SPACE AGENCY = have the potential to shape the future

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WE DO SPACE because it is an expression of being human, part of our DNA!
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?
Tuesday 26 September 2017

International Astronautical Federation (IAF)

TUESDAY

PLENARY 3: SPACE TRAFFIC MANAGEMENT - Global Challenges to Protect the Strategic Domain of Space

AS A GLOBAL AGENCY
Our mission is to
promote safety of
space operations &
preserve space
environment

Looking at how to
integrate into
a way that
everyone
benefits

We need to
maintain
the environment
better

It is better for
the common good
for the service to be
available
irrespective

We need to make sure
space debris does not
affect our national
security

We have to
integrate into
a way that
everyone
benefits

The time for action is now

As a global agency,
our mission is to promote safety of space operations and preserve space environment.

Looking at how to integrate into a way that everyone benefits.

We need to maintain the environment better.

It is better for the common good for the service to be available irrespective.

We need to make sure space debris does not affect our national security.

We have to integrate into a way that everyone benefits.

The time for action is now.
Space Communications and Surveillance for National Security
Reusability of Launch Vehicles & Small Sats

Space Situational Awareness
Impact of Constellations
Near-Earth Objects

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

Tuesday 26 September 2017

International Astronautical Federation (IAF)
PLenary 7: Next Generation on-orbit Satellite Servicing & Refuelling Programmes

- We rethink lifecycle extension of any satellite via GEO location
- We provide launch for providing services for satellites
- We are developing technologies to create new launch opportunities
- We are developing a technology to bring GEO satellites to a lower orbit
- We are creating new opportunities for satellite operators
- We are extending & managing fleets of our satellites on top of minds
- We are Australian leading satellite operators
- We want to enable space sustainability
- We are introducing reliability in space
- We are changing the game in space launches
- We are developing servicing while in near future
- Looking for a Revolutionary Future
- On-orbit servicing will go a long way
- Satellite servicing will go a long way
- Space elevators and terrestrial refuelling
IAF IDEA Luncheon: IAF Excellence in “3G” Diversity Award Ceremony

The 50th Anniversary of the Outer Space Treaty: Global Governance for Space Activities
The Role of Space Agencies in Support of Emerging Countries
Space Technology Education and Training Exchange Platform Open to the World
The Evolving Relation Between Public Procurement and Industry
Shaping the Future with Ariane 6
0G Summit – Space Diplomacy in the Age of NewSpace
A Low Earth Orbit Space Station - the Way Forward
Spaceport Norway 2018: Towards a Space Society
Deep Space Exploration Post 2024 Scenarios
SpaceGen Entrepreneurs
Reducing Diversity Gaps
SpaceTech - Space Systems and Business Engineering
International Astronautical Federation (IAF)

Thursday 28 September 2017

INTERACTIVE PRESENTATIONS COMPETITION

5 Winners

Melissa Mirino, Italy
Siti Harwani Md Yusoff, Malaysia
Bernd Dachwald, Germany
Manfred Ehresmann, Germany
Benjamin Bonsu, Ghana
Pushing the Boundaries of Research – International Science ‘Made in Germany’

The Growth Challenges of Space Start-Ups: The Role of Private and Public Investors

The Status of Citizen Science in Global Earth Observation Systems

Understanding the Universe and Improving Life on Earth with Australian Astronomy

Space Optics: Next Steps of Optical Communications Enhancing Our Interconnected World

New Generation Recoverable Satellite — An Advanced Space Platform for Space Environment Utilization

Thursday 28 September 2017

Advancing Australia’s Space and Spatial Capability

ESAs Jam Session & Moon Village Kick-off

Space Mining – Law, Politics, Perspectives

Reusable Launch of Small Satellites Using Scramjets

Promoting Space Access through Global Partnerships

The Value of Being Part of Space Exploration

Space and Sustainable Development Goals

Earth Observation - Trends and Paradigm Shifts

International Astronautical Federation (IAF)
Making Humans a Multi-Planetary Species
Global Real-Time Data Exchange Satellite Constellation Project

Astronauts Event

Global Networking Forum

Friday 29 September 2017

CLOSING CEREMONY