WELCOME MESSAGE

The 70th International Astronautical Congress was held in Washington, D.C., United States, 21 - 25 October 2019, and hosted by the American Institute of Aeronautics (AIAA). Besides marking the 70th anniversary of the IAC this was also the exciting occasion to celebrate the 50th Apollo 11 anniversary!

More than 6,600 delegates from 80 different countries attended the congress to take part in the world’s premier space event, which will be remembered for many incredible moments! The Vice President of the United States, Mike Pence, welcomed the IAC 2019 delegates to Washington, D.C. and announced USA plans to land the first woman and the next man to the lunar surface by 2024. In recognition and celebration of the impressive legacy of the Apollo mission, the IAF World Space Award was handed out to the Apollo 11 Crew members. Buzz Aldrin, the grandson of Michael Collins, and the son of Commander Neil Armstrong, attended the ceremony in person to receive the prestigious award. On Industry Day, Blue Origin founder, Jeff Bezos was awarded the first IAF Excellence in Industry Award for Blue Origin’s amazing accomplishment with the New Shepard launcher.

The programme was filled with a variety of events and meetings during the whole week. The Plenary Programme included many interesting panels and Highlight lectures, the Technical Programme received a record number of abstracts with more than 4,330 submissions and authors from all over the world came to present their research. The IAF Global Networking Forum (IAF GNF) offered a record of 52 IAF GNF Sessions in several streams. The Exhibition this year with more than 270 exhibitors was also very impressive and one of the largest ever seen at an IAC!

I hope you will enjoy this booklet capturing the main highlights and memories of IAC 2019 in Washington, D.C.! I know you are already looking forward to the next IAC, which will be held in Dubai, United Arab Emirates, 12 – 16 October 2020. This will be the very first time that the International Astronautical Congress opens its doors to an Arabic country, and I already anticipate that this will be yet another fantastic IAC!
IAC 2019 IN NUMBERS

Global Distribution of Delegates

Top 10 Countries

- USA: 3379
- Germany: 431
- France: 303
- Canada: 271
- Japan: 259
- Italy: 202
- United Kingdom: 200
- Netherlands: 164
- Australia: 145
- South Korea: 142

WOMEN: 29%
MEN: 70%

International Delegates: + 6,600 Delegates

80 Countries

Age Groups

- 10 - 40 years old: 50%
- 40 - 60 years old: 34%
- 60 - 80 years old: 16%
- 80 years old: 9%
PUBLIC PROGRAMME
CLOSING CEREMONY
IAF EXCELLENCE IN INDUSTRY AWARD
Evolving Apollo: The Next 50 Years in Human Spaceflight

PLENARY 2
The Long Term Sustainability of Outer Space

Advancing the Space Economy & Sustaining Space Industry Through Solutions to Space Security Issues
HIGHLIGHT LECTURE 2

THE CHALLENGE of EXPLORING our SUN: The 60 year Odyssey to Parker Solar Probe

IT IS IMPORTANT to understand this STAR

Magical: it has a profound impact on EARTH

I am incredibly grateful

The CORONA is 500X hotter than the SURFACE

The MAGNETIC FIELD plays a KEY ROLE

I have a lot of ENERGY

The SUN DRIVES SPACE WEATHER

Faster-Faster Solar Wind

I close up with Solar Panel wings when I approach the SUN

Wow!

Send Parker, a.k.a. solar wind

Nicola J. Fox

@Silvia Draws
LATE BREAKING NEWS 1

OSIRIS-REx Dancing with Asteroid Bennu

LBN

Journal in Sep 2019

Sample Collection

We don’t know the aircraft’s position relative to the asteroid

Optical Navigation

The size & shape match our predictions

Data not good enough, need more samples

Smallest object ever orbited

Bennu is a lot more rough than expected

Taller than E.S.B.

An active asteroid

Kenneth G.

A challenge & an opportunity

64 Proximity Operations

World Record

Outsize: 3,652,077 km
Bounding Radius: 287.3 m
ASSOCIATED EVENTS
INTERNATIONAL PLATFORM FOR DIVERSITY AND EQUALITY IN ASTRONAUTICS
3G Geography • Generation • Gender
The International Astronautical Federation (IAF) would like to thank its whole community. Your support and commitment have made the 70th celebration of the International Astronautical Congress truly successful and memorable. We hope you will join us again in the next chapter of the world’s premier global space event!
Connecting @ll Space People