



*Fédération
Aéronautique
Internationale*

Minutes

of the
Annual Meeting
of the
**FAI Astronautic Records Commission
(ICARE)**

held in Lausanne, Switzerland,
on Friday 13 April 2018
at Maison du Sport International

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1 WELCOME BY THE PRESIDENT

The Vice President welcomed all attending the 2018 Annual Meeting at Maison du Sport. As did the President via Skype.

2 ROLL-CALL

Present

- Tjasa Erzen (Slovenia)
- Igor Erzen (Alternate, Slovenia)
- Henrik Akerstedt (Sweden and ICARE Vice-President)

Via Skype

- Prof Anu Ojha (UK and ICARE President)
- Jean-Fancois Clervoy (France)
- Nicholas Berend (Commission Technical Expert- France)
- August Gudmunsson (EB)

3 DECLARATION OF CONFLICTS OF INTEREST

No relevant conflicts were declared

4 APPROVAL OF THE MINUTES OF THE LAST MEETING

The 2017 Annual Meeting minutes were approved

5 FAI GENERAL CONFERENCE, MEETINGS and ACTIVITIES

- a) Annick Hauser gave an overview of last years FAI General Conference held in Lausanne
 - High level of participation
 - During the past year, there have been more Category 1 events than usual (51)
 - The new FAI website launched
 - The next World Air Games will be held in Turkey in 2020
- b) The proposed name change (to Astronautics and Stratonautics commission) was denied as it risked blurring the line to other commissions. After some deliberation our commission agreed on proposing the name; "Astronautics and human rocketry commission" instead.

6 ASTRONAUTICS ACTIVITIES AND PROJECTS

- Sweden: The Esrange launch site supported multiple sounding rocket and balloon launches including one rocket that prematurely shut down during ascent and one record 600kg, 678 km apogee flight. Well progressed plans for converting the site to allow orbital rockets exist, but in need of funding.

- Slovenia: Associate ESA member with few manned spaceflight activities.

- France/ESA: The past year saw the flight of Thomas Pesquet who completed an extended mission with no major issues and all mission goals met. The nation of France experienced an inspiring outreach programme similar to that of Major Tim Peake in 2016.

The Guiana Space Centre in Kourou supported 11 launches of Ariane 5, Soyuz and Vega rockets, as well as preparing for the Ariane 6 rocket scheduled to begin testing in 2020.

Later this year a small satellite launcher demonstrator (Altair) will also be tested in Guiana to allow ESA to compete in the emerging CubeSat market.

ESA is a well established partner in the ISS project, preparing to support the station beyond 2024. During the past four years, six ESA astronauts have visited the station.

- United Kingdom: The process of selecting the site for a UK space port for unmanned (and later manned) launches is well underway, targeting first launch in 2023

The private enterprise Reaction Engine Ltd. is preparing for a full scale demonstration of their Sabre engine in 2020. This engine is a hybrid air breathing rocket engine that may allow single stage to orbit spaceplanes.

- China: This year saw the reentry of the Tiangong-1 space station, as well as the construction of the Chinese Space Station (CSS). Its first segment is to be launched in 2020.

The Chinese National Space Agency is actively cooperating with Russia and ESA, doing joint exercises, possibly allowing ESA astronauts to visit the CSS.

- United Arab Emirates: Work is progressing towards a 2020 robotic mission, with the possibility of UAE astronauts flying at a later time

- USA: NASA is partnering with private companies to allow easier access to space. Boeing is constructing the SLS rocket and the Orion spacecraft set for deep space exploration. The second SLS flight will be manned. Boeing is also considering offering tourism trips to the ISS as these launches become more common.

SpaceX is also progressing with its Falcon 9 rocket and Dragon 2 spacecraft, competing with Boeing on reaching the ISS with a crewed capsule.

7 FAI SPORTING CODE

The most recent changes to the Sporting Code Section 8 have not yet been updated on the FAI website, to be fixed shortly

8 NEW ASTRONAUTICAL RECORDS

No upcoming new records in sight.

9 PROPOSALS FOR FAI AWARDS

None submitted by any national aeroclub, but the commission agreed to nominate Peggy Whitson for the Gagarin Gold Medal.

10 INTERNATIONAL ASTRONAUTIC FEDERATION

Nicholas Berend gave a summary of the events that took place at the 2017 IAF conference in Adelaide, Australia. Apart from the news of Australia founding its own space agency, much focus was on Elon Musk, SpaceX and the development of the BFR scheduled to travel regularly to Mars during the next decade.

As opposed from the last IAU conference, Mars exploration was not the main topic. Instead, space debris mitigation strategies were discussed and possible solutions are being actively pursued.

The next meeting will be held in Bremen, Germany

11 PRESENT WORLD RECORDS – REPORT

Peggy Whitson have broken the record of total no of EVA:s performed. Anu Ojha and Nicolas Berend will compose and submit a record dossier.

12 ANY OTHER BUSINESS

This commission has seen a drop in participating delegates over the past few years. In an attempt to combat this trend, efforts will be made throughout the year to contact former delegates and to recruit new members. With the very international space community it is vital to have a well represented commission.

A fruitful discussion regarding the relevance of Kármán line (the generally agreed upon “edge of space” of 100km) as the limit one has to reach to qualify for our records. It is the view of our commission that even though the Kármán line is grounded in the physics of flight, it is still arbitrary and does not take into account the human experience of being in space, which may happen at a far lower altitude. The commission will continue to progress towards a solid, working definition of space

that captures the human nature of being an astronaut without interfering with the role of other commissions.

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| 13 | ELECTIONS |
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Professor Ojha (UK- current President) was nominated as the only candidate for President. His nomination was seconded and unanimously agreed.

Mr Akersdett (Sweden – current Vice-President) was nominated as the only candidate for Vice President. His nomination was seconded and unanimously agreed.

Mr Berend generously agreed to continue as the technical expert

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| 14 | DATE AND PLACE OF NEXT ICARE MEETING |
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To be announced