



AACII Aerospace Mobility News 01/2024

OXFORD UNIVERSITY WORKSHOP MEDICATION IN SPACE



The Oxford University Workshop Medication in Space has been organized by Metavisionaries CEO Wasim Ahmed and his partner Ihab El Sammanoudi to attract high-level international speakers in the field of aerospace. These include Dr. Jim Green, former Chief Scientist at NASA; Dr. Tara Rutley NASA on Humans in Space; Dr. Ghada Alsaleh from the University of Oxford, leader on research on aging in space; Dutch researcher on organoids, Dr. Hilde Stenuit Space Application Nordwijk; Phil Williams on medical care during missions and many more specialists from around the world who can be seen in the picture.

BARCELONA SPACE DAYS AND BREMEN SPACE TECH EXPO



At the Barcelona Space Days and Space Tech Expo Days Bremen, CEO Marc Gascons presented the achievements of the Compoxi Company from Barcelona, which produces special unique composite materials for space travel, including for the Emirates. Catalonia Aerospace was also excellently represented as a team in Bremen.

400 YEARS SIMON MARIUS IN THE PLANETARIUM NUREMBERG



At the opening ceremony for the 400th anniversary year of the margravian court astronomer "Simon Marius - 1573-1624" from Franconia in Nuremberg's Nicolaus Copernicus Planetarium, the interesting lectures by Prof. Julia Lehner, Mayor of the City of Nuremberg, and Pierre Leich, President of the Simon Marius Society, shown here as second from the right next to Director Karlheinz Rohrwild from the Nuremberg-Feucht Space Museum, impressed the audience. A short theater play was offered by and with Chriska Wagner, Sigi Wekerle and Christiana von Roit with "Simon on the Couch". The first keynote speech was given by Andreas Rudolph, Head of Astronomy Missions at the European Space Agency titled "Space-based exploration and astronomy - modern probes and observatories long after Simon Marius". The second keynote speech was given by Prof. Dr. Klaus Schilling, Director of the Centre for Telematics, titled "400 years after Simon Marius: Franconian small satellites in space".

SPACE DRIVEN SOLUTIONS FOR CONVENTIONAL INDUSTRIAL APPLICATIONS

The study " Space-driven Germany - The importance of space travel for Germany's economic competitiveness, sovereignty and sustainability goals" (Original title: "Weltraumbeflügeltes Deutschland - Die Bedeutung der Raumfahrt für Deutschlands wirtschaftliche Wettbewerbsfähigkeit, Souveränität und Nachhaltigkeitsziele") recently published by BDI and Roland Berger focuses in particular on the importance of space-based solutions for traditional industry. It clearly shows that they massively promote the digitalization of business models on Earth, open up new markets and increase resilience on Earth. For many industries including automotive and telecommunications, applications and the use of data from space are game changers.

The central conclusions of the study are that space-based solutions can play a key role in enabling Germany to maintain and expand its leading position in critical economic sectors. Similar to digitalization, space technology acts as a catalyst to exponentially increase industrial capabilities and competitive advantage. German industry has worked long and hard to get to the top of the global market. Today, we are faced with the task of strengthening our technological leadership and innovative strength in order to also lead the way as a pioneer in the revolution of the space sector. This ambition is essential if our industry is to make a significant contribution to solving the enormous challenges of our time and opening up new markets with the help of space technology.

In German language: https://issuu.com/bdi-berlin/docs/20231018_studie_roland_berger_bdi_weltraumbefl_gel



Interview with Dr Christian Feichtinger, Executive Director of the International Astronautical Federation IAF in Paris with Ulrike Trapp AACII in March 2024

Ulrike Trapp UT: We are here at the Office of the International Astronautical Federation. Thank you for such a warm welcome and meeting right in the heart of Paris. You are the Executive Director of the International Astronautical Federation which is active all over the world and keeps flourishing the dialogue between science and industry. I could attend some of your great conferences and I'm enthusiastic about IAF and here to talk to you.

Dr Christian Feichtinger CF: Welcome here in Paris. I am pleased to have you representing one of our distinguished members from Germany here in Paris and to discuss interesting topics. Thanks for coming!

UT: Thank you so much, it's a pleasure and my first question is what your initial idea was coming here to Paris and starting this great federation and another question I like to put right there: What do you think shaped the past that works into our present?

CF: You know, the International Astronautical Federation is really a unique organization. I would say we have such a rich and long history being created in 1951 by just 10 societies from 9 different countries. Remember, this was the time of the Cold War, where the east and west couldn't speak to each other. I mean scientists and engineers and these people realized, that if they created a multinational and international form or environment, then all of a sudden dialogue would be possible. That was the initial birth of the International Astronautical Federation. Now 75 years later the IAF still does what it was intended to do: connecting all space people for sustainable future. The history of all these more than 70 years shows that the development of International Astronautical Federation went hand in hand with the development of space for years. For many decades, space was actually the domain of this so-called big space nation, the US. It was more or less obvious that Europe also came up and the federation developed with that. At the same time the numbers of memberships were growing. One country - one member: that was the standard rule usual for such an association. After some years, however, it became clear that there was more. There are now more stakeholders, more actors getting active in the space domain, and so the IAF was then opened up for any organization that is capable. So, the membership that has started with 9 members has grown today to a number of 530 organizations from 77 different countries. It has developed into a global organization, and it is most probably, one can say today, the most diverse space advocacy organization worldwide and of course we are very proud of that.

We try to keep the speed of development of the federation. Our key asset and our key project I would say is hosting and organizing the International Astronautical Congress which this year will be organized for the 75th time. Actually it is an anniversary edition which will take place in Milan from the 14th to the 18th of October 2024. We are very happy to bring the congress back to Europe and specifically to Italy which is a very important actor today in space and we are up to achieve a record at this Congress. This year, as we experience it over and over again, the development of the space sector changed. It started from space nations, but it has changed dramatically. Especially in the last years new actors came up from new countries, also emerging countries. Space has not been any topic there for years but a few years ago it started to be receive attention. I am very proud to say that the International

Federation through our events and communities may have contributed by connecting these countries. Also connecting countries that have already been very active might demonstrate that space can contribute strongly to the social economic development of income. And how do you do that: you need to convince the general public. And you need to convince the politicians, the decision makers actually and that is what we've done over the last 10-15 years to really bring space experts together with decision makers. We are organizing dedicated sessions for ministers for members of parliament and are giving them all the arguments why space is important, why to spend money on space. Yes, because this is only possible if the general public is convinced. How do you convince the general public? Of course through the media. So for us also a very important aspect is to bring the media into the discussion about space to provide them with the right inputs so that they can really reflect what space is all about, what space can do.

UT: What an amazing contribution you bring up for 75 years. I've been watching the IAF for some years now. It's always something that is inspiring for everybody in that time that I've been attending. Your activities are resulting in a dialogue, including everybody who's interested in that. Especially the new generation is something that is unique and I look at the presence that has been also inspired by private launchers. This is a new market that is a new target group, that is a new group of people who are interested. I'm very glad to hear that from you. What are your aspects for the near future that you look into when it comes to the Milan congress and congratulation for 75 years that's hard work.



CF: Well, you have mentioned one very important aspect that is the next generation. Today you have a big number of space gatherings, space conferences and congresses and most of them are targeted at certain target groups. You are either gathering space agencies, government officials, industry professionals, or it's the student conference also focusing sometimes on really regional groups what is IAC specific and different from all these other very focused conferences. This shows how broad we are when including the government sector, the industry, academia, space universities, we are open and very supportive to the next generation. It is one of our missions to contribute to the development of the space workforce for the future and today more than 50% of all participants in the congress are from the next generation. If we say next generation, we also mean young professionals. What is also a distinctive feature is the geographical diversity. At the congress last year in Baku, we had a record number of participants. Nobody is left out; we are open to emerging countries even to representatives of countries that do not have yet a space ecosystem if we can contribute to the development of these ecosystems in these countries. I think it is important that we have cored this initial selection: 3G diversity. 3G standing for gender, generation and geography. Geography, as I mentioned, 77 countries are members of our Federation, more than 130 countries that participate in our congress. I think we are doing well generation wise again it's important to bring the senior experts, the senior generation in conflict with the next generation and our congress is famous for this. We have targeted programs for the next generation, we have senior personalities from the NASA and the European Space Agency. They and industry leaders are getting in touch with the next generation. It's a unique opportunity for students and young professionals who come to the IAC. Let's not be afraid to address the senior leaders in space because they are open for you, they are open to talk to you and it's a unique experience for a young person to be able to talk to these senior leaders and it may kind of really steer and influence their career.

And the third "G" of course stands for gender. This is something I think everybody is acknowledging today that we need to support the inclusion of more and more female engineers, promote technical topics for young women, so

that they may consider a career in that field, raise awareness for that. It is important to have a diverse workforce in terms of gender.

Now talking about the IAC in Milan. Yes, indeed we are working since several years already preparing this conference and whenever the congress comes back to Europe, we expect really another record. I recall that two years ago we had the pleasure to host and organize the congress here in Paris and it was the biggest congress ever with 9,500 participants, so we did reach 10,000 so we said OK - next time the congress comes back to Europe. Like it's our target and that's what we are looking now for in Milan and what we have seen so far in terms of interest from our global community is stunning because we have just closed all our calls: the calls for proposals, planning the special sessions and the abstracts in the technical program. While for instance in Paris we had 4,800 abstracts submitted from which we could only select some two and a half, three thousand to be presented at the congress, this year just last weekend we have received almost 7,000. You see the interest of the global space community to be part of this congress is growing year by year. We have record number of special session proposals for this congress. We can only accommodate some 20. So we expect the quality of all events to be top level. I can only invite everybody to consider joining us there. The venue is exceptional, the IMO Milan Convention Center which is able to host a community of more than 10,000 people. The exhibition is almost fully booked out. Of course, we will have all the big events, we will have the heads of agencies we will have the management of space. We will have a dedicated meeting for ministers of parliament bringing space closer to decision makers, we will have a huge crowd of young people there again with special programs for them and of course the Italian hospitality offered by host organization AIDA with very strong support of the governments. This is a very strong team, and we are delighted to working closely with them to make this another success.

UT: We can't wait to see all that and what a combination this is you mentioned that you promote the dynamic young people bringing together with the experience of space community from all over and the inner disciplinary aspect how important is this to combine and bring it into a dialogue. You're looking into a very rich future and very strong future because everybody's looking at the astronautical communities all over and the emerging markets are getting a good guide into a very successful way and future and bringing also jobs all over. I'm glad to see you on the 12th of February 2025 at the Aviation Aerospace Congress AACII. You will see a small congress and we will hear your words when you're actively on the stage and giving your report about Milan. I can wish you all the very best for Milan.

CF: Thank you very much, looking forward to meeting again in February next year and talking about IAC in Milan and whatever comes next.

UT: Yes, that's a great idea, thank you so much Doctor Feichtinger.

If you wish to watch the interview with Dr Feichtinger, please follow the link to our YouTube channel <https://youtu.be/l7B4xGRVOTo>

UPCOMING AEROSPACE & AVIATION EVENTS

April 2024

08	11	Space Symposium	Col. Springs, USA
16	18	Amsterdam Drone Week	Amsterdam, NED
17	19	Industrial Cooperation Days Aerospace	Ankara, TUR
17	20	Aero	Friedrichshafen, GER
25	26	New Trends in Civil Aviation	Prague, CZE

May 2024

13	15	Space Tech Expo	Long Beach, USA
14	16	Dubai Airport Show 2024	Dubai, UAE
21	23	CABSAT	Dubai, UAE
28	30	Aircraft Interiors Expo 2024	Hamburg, GER
28	30	European Business Aviation Conv. + Expo	Geneva, SUI

June 2024

04	07	ICUAS unmanned systems	Chania, GRE
05	09	Luftfahrtmesse ILA Berlin	Berlin, GER
06	08	Air Expo	Lyon, FRA
11	13	ETTC 2024	Nuremberg, GER
16	16	Aeronautics & Astronautics Commencement	Stanford, USA
16	18	Prague Space Security Conference PSSI	Prague, CZE
17	21	Eurosatory 2024	Paris, FRA
18	20	Cité de l'espace	Toulouse, FRA
25	27	World Defense Show	Riyadh, KSA

July 2024

13	21	COSPAR Scientific Assembly	Busan, KOR
22	26	International Airshow	Farnborough, GBR
29	30	ISEAT Conference Engineering & Turbulence	Istanbul, TUR

August 2024

21	21	ICMAE Mechanical & Aerospace Engineering	Prague, CZE
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September 2024

03	05	Commercial UAV Expo	Las Vegas, USA
10	11	Aerospace Test & Development Show	Toulouse, FRA
16	19	IST World Congress	Dubai, VAE
16	20	World Satellite Business Week	Paris, FRA
18	19	Industry Space Days	Noordwijk, NED
24	26	INTERGEO	Stuttgart, GER

October 2024

08	10	World Aviation Festival	Amsterdam, NED
14	18	International Astronautical Congress IAF	Milano, ITA
16	19	Japan International Aerospace Exhibition	Tokio, JPN
21	24	International Telemetry Congress	Glendale, USA
22	24	Dubai Heli Show	Dubai, UAE
22	24	MRO Aviation Week Europe	Barcelona, Spain
23	25	AirExpo	Abu Dhabi, UAE

November 2024

04	07	European Rotors	Amsterdam, NED
11	12	Saudi Airport Exhibition	Riyadh, KSA
13	15	Bahrain International Airshow BIAS	Sakhir, BHR
18	21	NAAA Aviation Expo 2024	Fort Worth, USA
19	20	Aerospace Tech Week Americas 2024	Atlanta, USA
26	27	Aviation Forum	Munich, GER

February 2025

12	12	AACII International Interdisciplinary	Nuremberg, GER
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