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University of Zurich[UZH]

UZH Space Hub

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Dear UZH Space Hub Community

Many interesting space-related events await you in September. In this newsletter, you will find news about the recent launch of a UZH Space Hub and Airbus experiment to the International Space Station. In addition, we would like to remind you the Scientifica lectures series, hold by our UZH Space Hub members.

Have a nice read,

UZH Space Hub Team

News

UZH Space Hub & Airbus Experiment on ISS

On August 29, SpaceX launched a new resupply mission to the International Space Station (ISS). On board also an experiment developed by the UZH Space Hub and Airbus Defence and Space. This innovative project started in 2018 with the aim of advancing the industrial production of human tissue in microgravity. The produced miniature human tissues, intended for use in terrestrial research and medicine, could lead to a reduction of animal testing. Image: NASA

Read more

Confirmation for Research and Innovation at Dübendorf Airfield

The next step for the use of Dübendorf airfield for innovation and research has been taken with the presentation of "Synthesebericht" under the lead of the canton Zurich on August 31, 2021. The report was signed by different parties such as the canton of Zurich, affected communes, federal government, academia including UZH and other interested groups, to confirm the will of future development of the area. The airfield shall be used in a three-fold manner between the Innovation park Zurich - airfield - military use. The next step in the transformation is to define the legal boundaries on cantonal and communal level that will give the cornerstone for the sustainable use to create a fruitful reasearch and innovation platform with international prestige.

Read more

Drones, sensors and weightlessness: high-tech research in Dübendorf

On September 1, 2021, the UZH Space Hub together with its members from Davide Scaramuzza's Robotics and Perception Group, Andi Hüni's Remote Sensing Laboratory team and Oliver Ullrich's Space Life Science Group had the pleasure to present their research activities at the Dübendorf airfield as a Pre-Scientifica Event. More than 600 people came to discover how autonomous drones will be used in future, what kind of information we can derive about our Planet using a highly sensitive spectrometer and why parabolic flights are important for researchers. Image: Regina Sablotny, Berlin.

ExoLabs & SnoWE

Congratulations to the University of Zurich spin-off ExoLabs for being part of a new project funded by the Eurostars programme with a total budget of CHF 1.7 million. The new project is called "SnoWE - Snow Water Equivalent forecasting service for the hydropower sector", and aims to model the snow water equivalent (SWE) of the snow cover and predict the water inflow according to the forecasted weather. The SnoWE consortium will combine data from snow-radar devices (Think Outside) and satellite observations on snow cover (ExoLabs) in numerical weather models for short-, medium-term forecast of snow balance model and water inflow (UBIMET). The service developed within the project are expected to be used for more than 100 installations in the next five years. Congrats!

Read more

Events

Scientifica: Space Hub Lectures Series

On the occasion of Scientifica 2021 on September 4 and 5, a public lectures series with UZH Space Hub members with focus on "Astrophysics and Space Life Sciences" will take place. Short talks will be given by Ravit Helled (Astrophysics), Philippe Jetzer (Astrophysics), Lucio Mayer (Astrophysics), Jaap Swanenburg (Space Life Sciences), Oliver Ullrich (Space Life Sciences) and Johannes Vogel (Space Life Sciences).

Read more

Space Café: Machine & Deep Learning applications

We would like to invite you to the last Space Café, which will take place in a **hybrid mode, on-site (Irchel campus) and online, on October 28, 2021.** Our speakers will tell us more about Machine and Deep Learning applications in Astrophysics, Earth Observation and Life Sciences. Registration is free but mandatory. More information soon on our webpage.

Space Innovation

UZH is member of Space Innovation and thus all UZH-affiliates can take part in their activities and benefit from their offers. You can for instance take part and interact in the webinar on Experience and Outlook on In-Orbit Demonstration in Switzerland, which will take place on September 8, 2021 (from 16:00 to 17:00). If you would like to know more about the event or the Space Innovation's offer, please contact us or register at this link.

Read more

Opportunities

New Calls for Gravity related Experiments open

Do you plan to make your master thesis on the topic of gravity and space? If yes, check out ESA Academy's open call for Drop Your Thesis!, Fly your Thesis!, and Spin Your Thesis! Programs for 2022. You have time until October (Fly your Thesis!) or November to develop your idea and apply to these exciting opportunities. Let us know in case you need support!

Read more

Digital Entrepreneurship Bootcamp

Are you a UZH student or a researcher interested in shaping the future of digital transformation and developing a digital business idea? Apply for the Digital Entrepreneurship Bootcamp. You can either develop your own digital business idea or join an entrepreneurial team to work on the validation of a customer-oriented product. Each startup team will pitch its work in front of an expert jury by the end of the bootcamp. Deadline for applications: September 20, 2021.

Read more

Meet a Space Scientist

This month we have interviewed Claudia Röösli, group leader at the Remote Sensing Laboratories of the University of Zurichhead of NPOC for satellite data. At the UZH Space Hub operational team, she is the expert for Earth Observations and Remote Sensing. In this interview, she told us more about her research on biodiversity. Would you like to know more? Full interview in the link below.

Read more

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