3rd Swiss Parabolic Flight

Information for private participants

June 11th – June 13th, 2018
Dear participants of our expedition into weightlessness, dear “Astronauts for one day”,

We are happy to welcome you for the 3rd Swiss Parabolic Flight Campaign. Thanks to your participation, thanks your pioneering spirit, this full-scale research expedition into microgravity flight from Switzerland became reality.

During the 3rd Swiss Parabolic Flights, in the front part of the cabin, scientific experiments and technology tests from Universities and from industry will be conducted. In the middle and rear part of the cabin, private participants have the unique possibility to experience total weightlessness – exactly the same as in space – and to float freely without the force of gravity.

Working in space and in microgravity requires knowledge and experience, enthusiasm, strong dedication, very hard work, the aptitude to overcome setbacks, again and again. After thousands of experiments in the last decades, parabolic flights are the backbone of microgravity and spaceflight research and technology development. To date, parabolic flights are the basis for every manned spaceflight program.

We are welcoming the Airbus A310 ZERO-G in Switzerland for the third time in Switzerland. On June 12 and June 13, 2018, we will take off for the 3rd Swiss Parabolic Flight Campaign.

To make this unique experience more enjoyable, please find attached the detailed program and a few additional advices.

Sincerely yours

Prof. Dr. Dr. Oliver Ullrich
Director Swiss Parabolic Flights
Full Professor / University of Zurich
Professor. of Space Biotechnology / U Magdeburg
Head Space Hub / Innovation Park Switzerland
Academician International Academy of Astronautics
President of the Board / Swiss SkyLab Foundation

Natalie Dové
CEO
Dovespace / Nussbaumer Reisen AG
PLEASE NOTE THAT THE 3RD SWISS PARABOLIC FLIGHT IS A SCIENTIFIC MISSION. ALL SCHEDULES ARE SUBJECT TO CHANGES IN CASE OF UNFORESEEN EVENTS.

Evening before the flight, June 11, 2018

Main Briefing and Welcome reception in Hangar 3, Innovation Park Zurich – Enjoy the view of the Airport Dübendorf with the Airbus A310 ZERO-G waiting for you

Switzerland Innovation Park Zurich, Wangenstrasse 68, 8600 Dübendorf

For all participants of the 3rd Swiss Parabolic Flights, the Swiss Parabolic Flight Team and Crew of the Airbus A310 ZERO-G

“Parabolic Flight” attire requested (flight suit or casual)

1615 – 1645 Arrival at Hangar 3 (H3), Switzerland Innovation Park Zurich, Wangenstrasse 68, 8600 Dübendorf

Parking: Military parking lot (Wangenstrasse / Dietlikonstrasse)

Public Transport: Railway Station “Dübendorf” (S9 or S14 from Zurich HB) or Bus 759 (bus stop “Innovationspark”)

Please bring your ID. For directions to the Hangar 3, Innovation Park Zurich, please see the attached map. Registered persons only.

At your arrival, you will be welcomed by the Swiss Parabolic Flight Team, receive your badge (and “boarding pass” for flight participants) and invited to the main safety briefing (mandatory for flight participants) and welcome apero. After the safety briefing, you pick-up and try on your flight suit.

1700 – 1830 Main Safety Briefing (Hangar 3, Innovation Park Zurich)

- Welcome and introduction
- Schedule
- Flight experience in space / research in weightlessness
- Novespace team
- The parabolic flight
- Activities in flight
- Safety and medical briefing
- Short presentation of scientific experiments
- Recommendations and reminders
- Questions
- Flight suit delivery and check
1830 – 2030  Apero Riche (Hangar 3, Innovation Park Zurich)

You are also invited to visit the “information pavilion” of the Innovation Park Zurich and the panoramic terrace with fantastic overview of the airport and the Airbus A310 ZERO-G parking position.
Parabolic Flight Day, June 12, 2018

Preparing for flight:

- Have a good breakfast
- Have a good sleep the night before
- Not too much alcohol the night before
- Always follow the advice of your instructor
- Take the medication before boarding
- Wear your flight suit before coming to Airport Dübendorf
- Bring your badge / ID

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If arriving with taxi, please clearly inform your driver that your destination is “Militärflugplatz, Main Gate, Wangenstrasse” (not “Skyguide”, not ”Air Force Center”, or any other location at the airport).

Please wear your flight suit and have your badge and ID with you every time.

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Please wear your flight suit and arrive fully prepared for flight at the meeting point (hotel lobby). You may take your personal luggage with you, it can be stored at the Airport Dübendorf. The bus will not wait if you are delayed. In case of delay please see “individual arrivals” (above) take a taxi to the “Militärflugplatz, Main Gate, Wangenstrasse”.

Enjoy!
**Parabolic Flight Day, June 12, 2018**

Schedule of the Parabolic Flight Day:

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<td>Medication</td>
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<td>0900</td>
<td>Group pictures in front of aircraft</td>
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<td>0945</td>
<td>Boarding and safety briefing in aircraft</td>
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<td>Door closing</td>
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<td>Take-Off</td>
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1315 – 1445 Back-to-gravity-Apero, Airbus A310 ZERO-G parking site

Post-flight ceremony (parabolic flight certificate and medal
FOR SCIENCE TEAMS, Airbus A310 ZERO-G parking site

1500 – 1600 Post-flight ceremony with ESA Astronaut Jean-Francois Clervoy
(presentation, parabolic flight certificate and medal)
FOR PRIVATE PARTICIPANTS

Room 108, Dübendorf Airport

1600 Individual departure or bus transfer to Dorint hotel
## Parabolic Flight Day, June 13, 2018

**Preparing for flight:**

- Have a good breakfast - Have a good sleep the night before – Not too much alcohol the night before – Always follow the advice of your instructor – Take the medication before boarding – Wear your flight suit before coming to Airport Dübendorf – Bring your badge / ID – Enjoy!

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Please wear your **flight suit** and have your **badge and ID** with you every time.

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Parabolic Flight Day, June 13, 2018

Schedule of the Parabolic Flight Day:

0730 – 0800  Mandatory short safety briefing (for those who had not attended the main briefing on June 11th afternoon)
  Location: Dübendorf Airport – Seminar room 108
  (BEFORE security check)
  ▪ Introduction of the team and the flight crew
  ▪ Description of the flight and related safety and pleasure procedures
  ▪ Helpful advices
  ▪ Questions & Answers

For all others, please proceed directly to security check.

0800  Security Check
  Transfer to A310 ZERO-G parking site
  While at the parking site of the A310 ZERO-G, please stay close to your instructor. You will be allowed to take exterior pictures of the aircraft, but it is forbidden to take pictures of other aircrafts or airport facilities.

Medication

0845  Group pictures in front of aircraft

0900  Boarding and safety briefing in aircraft

0945  Door closing

1015  Take-Off

1010 – 1315  Parabolic Flight
  You will experience 15 parabolas, including one parabola with Moon gravity and one parabola with Mars gravity. You will be among the very first men who are feeling the gravity of planet Mars. You will be informed about the details of the flight during the briefing. You are allowed to float freely in weightlessness in the very large cabin of the wide-body A310 ZERO-G.

1315  Landing
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1315 – 1445 Back-to-gravity-Apero, Airbus A310 ZERO-G parking site

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FOR PRIVATE PARTICIPANTS

Room 108, Dübendorf Airport

1600 Individual departure or bus transfer to Dorint hotel
Important information

- The official program of the 3rd Swiss Parabolic Flight for all flight participants starts with the main briefing at 1700 on June 11th. It is possible to join the flight event on June 12th or 13th morning, but due to organizational reasons and the strict timeline of this flight expedition, it is highly recommended to participate in the full program and to follow the schedule provided below, which will help to ensure smooth and pleasant procedures.

- Please note that the Safety Briefing is mandatory. We are able to allow one exemptions: For those who are not able to attend the main briefing on June 11th, we offer an alternative - but shorter – morning briefing on the flight day in seminar room 108 or Dübendorf military airport.

- After the briefing, you will receive your flight suit, your flight socks and a patch of your dedicated zone on board (Mars, Moon, Jupiter, Saturn). After the flight, you can keep all items as a “souvenir”.

- There is a dedicated room for your personal belongings on ground inside the closed military part of the Airport Dübendorf, while you are in microgravity.

- Please note you have to wear the flight suit. We suggest to wear light garment and a T-shirt underneath.

- Shoes: After aircraft take off, you will remove your shoes, give them to the instructor, and wear socks instead.

- Cameras and video cameras are installed on board, and an experienced cameraman and a photographer will take pictures and video on board. You will of course be given pictures and movies after the flight. So you do not really need to shoot by yourselves weightless pictures, and we suggest you full enjoy this unique experience without bothering taking such pictures. You can anyhow bring your own camera/video, as long as it fit in overall suit pocket and it is wrist-strap equipped (free floating is a reality on board…).

- Caution: You cannot take with you GOPRO on a helmet or with a pole. We would like to avoid any injury with other passenger.

- Do not hesitate to bring with you your “favorite object”, as long as it is not fragile, fits in the pocket of your suit and your instructor confirms, you can board and fly with it. In case of doubt, ask your instructor and he/she will check if allowed to take it on board.

- Please avoid wearing jewels (earrings, necklace), which could hurt, hang on, or being lost.

- As on any commercial flight, weapons, blunt objects, liquids, etc, are strictly forbidden on board.

- Water bottles and sweets will be available on board at the end of the flight, you do not need to carry food or drink on board.

- Due to the microgravity conditions, there are no restrooms in the aircraft (an alternative solution can be used if needed). Your instructor will remind you this “detail” before embarking.

- Please bring a valid ID card to show at your arrival (and also for every accompanying person).

- Information regarding motion sickness:
   Usually, one or two passenger every ten suffers from motion sickness due to different gravitational conditions. To avoid that, we invite you to follow very strictly your instructor recommendations. You will be advised to avoid abrupt movements of the head during the hyper-gravity phases. To limit the risk to suffer from motion sickness one step further, we recommend you to take a medicine called “Kwells”, which is used on board our scientific flights and is really efficient. This medicine will be available during medication before flight. Before taking such medicine make sure that you don’t have contraindication to it (this should be clearly indicated on you medical certificate).

- Insurance:
   As participants are automatically insured (insurance concluded with Air Courtage Assurances / ACE European Group). Before the flight, you have to sign a liability exclusion forms (no liability in case of an aircraft accident).

We wish you an unforgettable experience !
Location AIRPORT DUEBENDORF
Militärlugplatz Dübendorf, Überlandstrasse 255, CH-8600 Dübendorf

<- Parking site A310 ZERO-G
<- Main gate

Car Park ➔
<- Main gate
Access to the military airport for private participants

- Small red point = Military Security Checkpoint Entry / (handover of ID/passport)
- Small blue point = Military Security Checkpoint Exit / (return of ID/passport)
- Building: Flight Security Checkpoint (and short safety briefing)
- BUS = Bus stop to Airbus A310 ZERO-G parking site