



Program and practicalities for the **Odysseus II semifinals** and Science Camp by DTU Space and ScienceTalents

10-13 April 2016

The event takes place in historical settings at the Mærsk Mc-Kinney Møller Science Centre, Akademigrunden 18, DK-4180 Sorø, Denmark.

Welcome to the Odysseus II-contest regional semifinals and science camp with participants from Denmark, Sweden, Finland and England. We are looking forward to spend four exciting days with you.

We will find the winners in the categories Pioneer (14-18 years) and Explorer (17-22 years). There will be one winner (team or individual person) in each category that will go to the finals in Brussels 8 July 2016 and receive a prize – a computerized telescope. On the last day, we will also give away an iPad mini 2 to the winner of a small quiz for non-winning participants.

The competition takes place on the second day of the event, but is only a small part of the camp. You are all winners in the sense that you will participate in a full program that focuses on having a good time, meeting likeminded young people, and working with space science related subjects.

On behalf of the Odysseus Team, DTU Space and the Science Talent Centre in Sorø,

Morten Garly Andersen, communication responsible DTU Space

Practicalities

The camp starts Sunday 15:30 and ends Wednesday 13:00.

Pick-up at Copenhagen Airport will be at Terminal 3 (main arrival hall). The meeting point is outside the Starbucks Coffee Bar to the right after leaving the luggage belt area and customs. The bus leaves at 14:10, so you should be at the meeting point no later than 13:50.

We will drop you off again at the airport on Wednesday 13 April at 14:00.

If you have special requests or needs with regard to food and accommodation, please send an e-mail to Dorthe at ScienceTalents on mail@sciencetalenter.dk

(Call Morten from DTU on +45 2962 2305 or Steen from ScienceTalents on +45 4124 0443 if you get lost.)

The projects in the contest will be evaluated in this way:

The jury will focus on the presentation on the day (about 10-15 minutes presentation followed by 5-10 minutes with questions by the jury), and support their evaluation by looking into a 1 page abstract (that must be delivered by mail to mga@space.dtu.dk on Monday 4 April as has been communicated) as well as the original contest papers as send in and evaluated. They will then give points from 1 to 20 on performance and substance add up and find the two winners that will go on to the finals.

The jury members

Mariann Albjerg

Member of DTU Space Advisory Board and former NASA-Engineer.

Steen Eiler Jørgensen

Talent ambassador at ScienceTalents, astrophysicist, president of the Danish Astronautical Society 2006-2016 and former aerospace engineer.

Morten Bo Madsen

Astrophysicist. Associate Professor at the Niels Bohr Institute at University of Copenhagen. Participating Scientist on NASA's Curiosity Rover (Mars Science Laboratory).

You can read more about the *Odysseus II*-project at www.odysseus-contest.eu

Program

Sunday 10 April

- 14:10 Bus departs from the airport.
- 15:30 Arrival at the Science Centre.
Welcoming in the Lehmann auditorium by DTU Space and ScienceTalents.
- 16:00 Introduction to the camp by DTU Space and ScienceTalents.
- 16:30 Teambuilding.
- 17:30 Before-dinner-break with Segway.
- 18:00 Dinner in the lobby at Sorø Academy.
- 19:00 Speech: "*Why spaceflight matters*" by Steen Eiler Jørgensen, talent ambassador at ScienceTalents, astrophysicist and president of the Danish Astronautical Society 2006-2016.
- 20:30 Cosy evening and get-together at the Talent Hotel.
- 22:00 Goodnight.

Monday 11 April

- 08:00 Breakfast at the Skjalm Hvide building.
- 09:00 Pioneers present their projects in the Lehmann auditorium. 10-15 minutes and 5-10 minutes with questions from the jury.
- 10:30 Short break and segway driving.
- 11:00 Explorers present their projects in the Lehmann auditorium. 10-15 minutes and 5-10 minutes with questions from the jury.
- 12:30 Lunch in the lobby at Sorø Academy.
- 13:30 Break with segway driving and games while the jury evaluate presentations, abstracts and projects.
- 14:30 Winners of the Odysseus II contest announced by DTU Space director and astrophysicist Kristian Pedersen.
- 15:30 Break.
- 16:00 Speech/lecture: *"Wings in Space, 30 years with NASA - The Space Shuttle Program"* by former NASA-Engineer and present DTU Space Advisory Board member, Mariann Albjerg.
- 17:00 Speech, demonstration and questions: *"Working with drones as parts of the studies in Geophysics and Space Technology at DTU Space"* by students Philip Lind, Mathias Schak Bossen and Philip Martin Østerskov Jensen.
- 18:00 Dinner in the lobby at Sorø Academy.
- 19:00 Rocket Science: Rocket engines, rocket fuel, simulation of rocket motion. By Steen Eiler Jørgensen.
- 21:00 Cosy evening and get-together at the Talent Hotel.
- 22:00 Goodnight.

Tuesday 12 April

- 08:00 Breakfast at the Skjalm Hvide building. You must also make your own sandwich to bring along for the excursion.
- 09:00 Excursion: Bus leaves for the Brorfelde Observatory.
- 10:00 Arrival at Brorfelde – speech and tour of the site that was inaugurated 1953. The site is now being used as a magnetometer station, and a station for a new radio antenna for detecting sun bursts/solar storms that has been set up recently.
- 12:00 Lunch at the site.
- 14:00 The bus leaves for the Science Centre.
- 14:30 Arrival back in Sorø.
- 14:45 “Build your own model rocket”, by Steen Eiler Jørgensen.
- 17:00 Speech/lecture/debate/cloud chamber: “*Cosmoclimatology – are clouds from space?*” by senior scientist at DTU Space Martin Enghoff. This speech is divided in two: one for Pioneers and one for Explorers. Each lasts about 30 minutes.
- 18:00 Dinner in the lobby at Sorø Academy.
- 19:00 Movie on the big screen: “Apollo 13”.
- 21:30 Cosy evening and get-together at the Talent Hotel.
- 22:00 Goodnight.

Wednesday 13 April

- 08:00 Breakfast at the Skjalm Hvide building.
- 09:00 GPS-race at the scenic surroundings on the academy grounds.
- 10:45 Break.
- 11:00 Final speech: *"What we do and what you could do at DTU Space or similar European university departments"* by Morten Garly Andersen, engineer and responsible for communication at DTU Space.
- 11:30 Evaluation of the event by participants and round-up by DTU Space and ScienceTalents.
- 11:45 Lunch at the Skjalm Hvide building.
- 12:30 The bus leaves for the airport.
- 14:00 Arrival at Copenhagen International Airport.

This program might be subject to minor changes, an updated program will then be available at the event.