DEADLINES

Website Opening	**1 March 2017**
Application Submission (opening)	**15 March 2017**
Application Submission (closing)	**1 June 2017**
Notification of Acceptance	**end-June 2017**

APPLICATION

The number of participants is limited to a maximum of 60 students and subject to selection of application. Students wishing to participate can apply online via the training course website.

FEES

No participation fees will be charged for the training. Participants are expected to finance their own travel and accommodation expenses. The official language of the course is English.

For further information please visit the course website at:

http://eoscience.esa.int/landtraining2017

Szent István University, Gödöllő

ORGANISING COMMITTEE

Zoltan Bartalis (ESA)
Yves-Louis Desnos (ESA)
Andy Zmuda (Serco S.p.A. c/o ESA)
Irene Renis (Serco S.p.A. c/o ESA)

Zoltán Vekerdy (SZIU)
Attila Zsarnovszky (SZIU)
Zoltán Zboray (HSO)

CO-SPONSORS

European Space Agency (ESA)
Hungarian Space Office (HSO)
Szent István University (SZIU)

CONTACT POINTS

ESA
Irene Renis
e-mail: eotraining@esa.int

SZIU
Zoltán Vekerdy
email: Vekerdy.Zoltan@mkk.szie.hu

HSO Hungarian Space Office
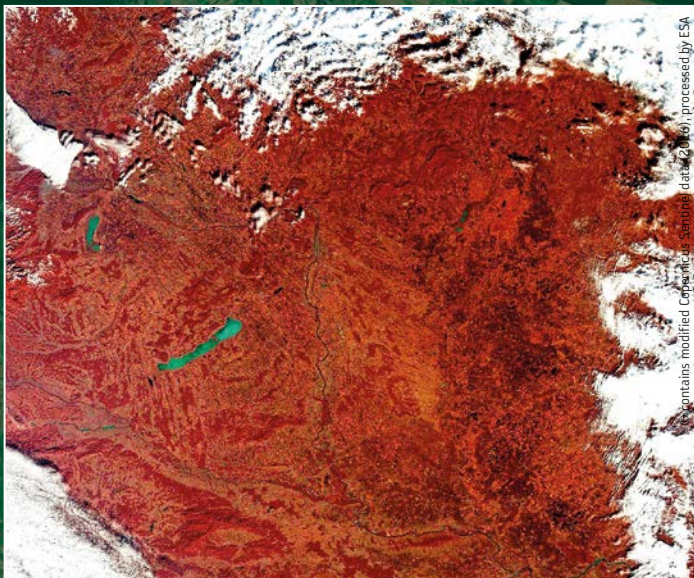
SZENT ISTVÁN UNIVERSITY

·eesa

→ **7th ADVANCED TRAINING COURSE ON LAND REMOTE SENSING**

4–9 September 2017 | Szent István University | Gödöllő, Hungary
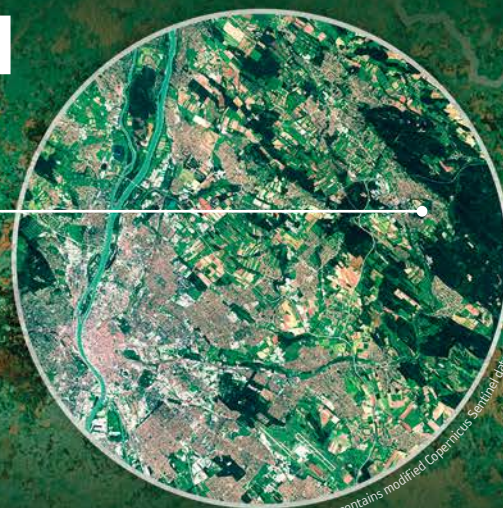
© contains modified Copernicus Sentinel data (2016), processed by ESA

The Pannonian Basin and surroundings, imaged by Sentinel-3A on December 3, 2016.

BACKGROUND

As part of the Scientific Exploitation of Operational Missions (SEOM) programme element, the European Space Agency (ESA) organises an Advanced Land Training Course devoted to train the next generation of Earth Observation (EO) scientists to exploit data from ESA and operational EO missions (e.g. the Sentinels) for science and applications development.

Postgraduate-level, PhD students, post-doctoral research scientists and users from Europe and Canada interested in land remote sensing and its applications are welcome to apply to the 6-day course, held at Szent István University (SZIU) in Gödöllő, Hungary, from 4 to 9 September 2017.

Participants from all other countries are also welcome to apply, subject to availability of places.

OBJECTIVES

The Advanced Land Training Course aims at:

- Training the next generation of European and Canadian Principal Investigators (PIs);
- Explaining theoretical principles, processing algorithms, data products and their use in applications;
- Introducing tools and methods for the exploitation of EO satellite data, in particular from the Sentinels;
- Stimulating and supporting the exploitation of ESA EO and Third-Party Mission data for land remote sensing science and applications.

CONTENTS

The course will provide advanced scientific knowledge on theory and applications for land remote sensing. It will be organised around five main components:

- Presentation of the Sentinel-1, -2 and -3 missions;
- Theoretical fundamentals of spaceborne optical, thermal and SAR remote sensing;
- EO land applications lectures on land use and land cover, multitemporal analysis, agriculture and drought monitoring, terrain motion and critical infrastructure monitoring, forest retrievals, flood and standing water monitoring, etc.;
- Practicals using ESA toolboxes for scientific exploitation of EO data;
- EO data processing and product demonstration for land resources monitoring.

The training course will include formal lectures by leading scientists as well as hands-on computing exercises exploiting real and simulated data for science and application.

A half-day field excursion involving in-situ and drone observations will be held during the week, followed by analysis and comparison of the collected data to satellite data at the end of the course.

Participants are expected to prepare and present a poster on their current relevant research or application.
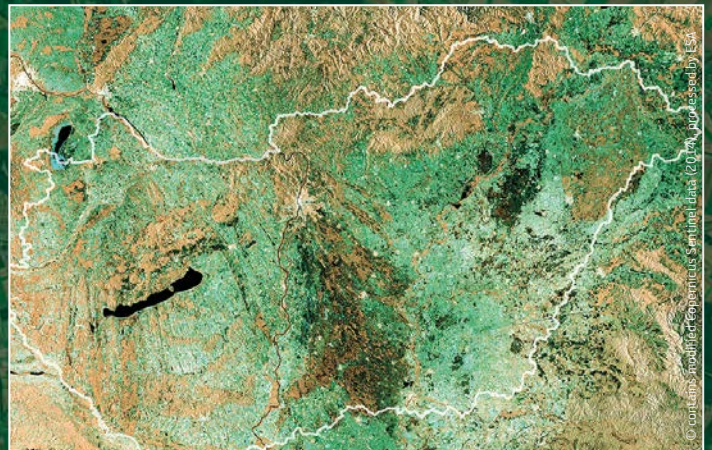
Dual-polarisation colour composite image based on Sentinel-1A acquisitions over Hungary, October–December 2014.

LECTURERS

The team of lecturers will be composed of Principal Investigators and professors from leading universities and research institutions.
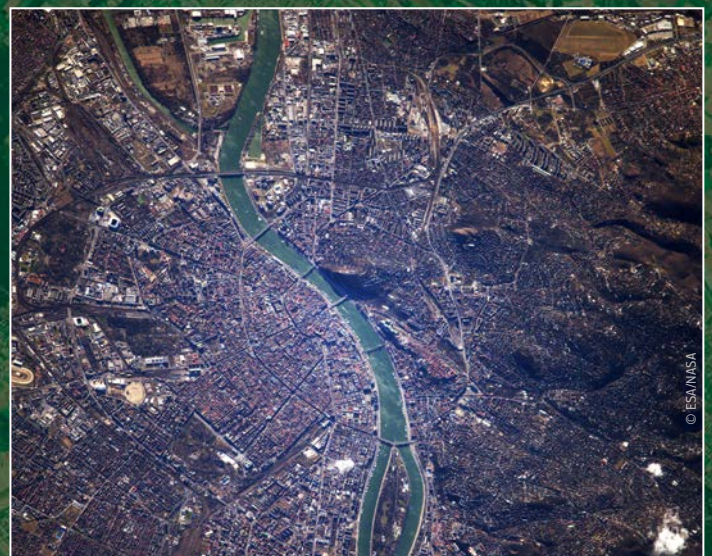
Budapest photographed by ESA astronaut Thomas Pesquet onboard the ISS, December 28, 2016.