

Soil and Water 2018 (21 May – 22 July, 2018)

Main organizer: Czech University of Life Sciences in Prague, Dept. of Water Resources FAFNR, Czech Republic, EU.

Education: e-learning from **21nd May to 29th June, 2018** and **on site** from **9th July morning – 21st July 2018 afternoon** in Izmir. **Departure home on 22nd July or later.** **On - site location:** Campus of the Ege University, Izmir - Bornova, Turkey.

Co-operation: CULS Prague, Ege University, Izmir, UTAEM Menemen, UC Copenhagen, Faculty of Science, BOKU Wien and with a support of ELLS members (UHOH, WUR, SLU, WULS)

PARTICIPANTS: PhD and advanced MSc students, postdocs are welcome too.

Introduction

Soil and water are the most important natural resources. The significant role plays the porous system of soils for storage of water and different water and solute transport processes in the World nature. It is complex, having many functions in the soil – water – atmosphere (- plant) relationship. For good understanding of common behaviors of this system, mainly the physical principles are important for the description and solutions of the processes in this natural system. Participants will learn main rules and environmental functions of soil and water relationship, the ways of determination of the hydro-physical properties like water content, soil water potential, hydraulic conductivity and other soil properties. The rural agricultural water management is more and more important in the situation of climate changes we all are facing on. These topics will be addressed in a series of e-learning and followed on site lectures, laboratory and field experiments, and of course excursions.

This traditional school of ELLS will start with **e-learning** using the internet video connection via Adobe Connect, followed by **two weeks of on-site school** in Izmir and surroundings, stay in the Ege University Campus in Bornova – Izmir, Turkey.

At the end of School the participants will obtain **the certificate** after successful passing the written and oral exam. The School is credited: 8 ECTS.

Course contents

- Soil as a porous complex system in the Earth Core
- Principal physical processes within the soil – water relationship
- Transport processes in the vadose zone and their environmental functions
- Physical processes for saving and protection of soil and water in the environment
- Importance of physical processes for the protection of soil and water
- Determination of soil water content, soil water potential, hydraulic conductivity and other soil hydro-physical properties
- Rural agriculture water management, environmental aspects of soil and water in landscape
- The tutorials and practical trainings in the laboratory and field techniques
- **THREE EXCURSIONS** during the on-site school in Izmir

Schedule

For further details, additional information, application, please see: <http://katedry.czu.cz/en/kvz/ss-2018>.

Credits

8 ECTS

Language

English

Application

Please **fill in the application form** via web page <http://katedry.czu.cz/en/kvz/ss-2018>, the SS web of the Czech University of Life Sciences in Prague, Czech Republic, EU.

Director of the school: Professor. Dr. Svat Matula (Matula@af.czu.cz)

Deadline for application: **May 18, 2018**

Information

During the e-learning all participants should have an access to the internet and have available notebook to get proper access to on-line video lectures, recommended study materials and literature for course preparation. There is no need of any special software from the side of participants. Adobe Connect software of the CULS will be used for the video communication.

Course format: Mix of e-learning lectures and instructions, on site lectures, multi-media study materials, laboratory and field experiments, and last but not least several excursions

Level: **The course is aimed at PhD/ advanced MSc students (postdocs are also welcome)** of natural resources and environment, water and soil resources, agricultural water management and similar study programmes

Social Program: Welcome evening, several common lunches and dinners, sport activities on the beaches of the Aegean Sea and in the Campus of UTAEM

Excursions : Visit of Ephesus archeological site, Bergama archeological site, Wildlife Park Izmir, delta of the River Gediz.

Location

E-learning everywhere in the World with good access to the web, on site education in the main Campus of Ege University, Izmir – Bornova, Turkey

Accommodation

The Guest House “Konuk Evi” of Ege University, single rooms, air-conditioned and Turkish breakfast included, located inside Bornova Campus of Ege University, 3 minutes walking from Metro station Evka 3, 15 minutes by metro from the city center of Izmir, Turkey

Costs

No tuition fee!! Sum of registration fee is 60EUR (or equivalent in TRY for Turkish students to get rid of bank money transfer costs) for pre-payment (it covers the study materials, e-learning, contribution to the costs related to the excursions) transferred to the bank account (see here Contact for the bank transfer and also the Application form for the details). Room and breakfast is about 90 TRY / day /1EUR = about 4 TRY in November 2017/ (single bed room, air-conditioned), and not included in the fee. Costs of travel expenses and other food (lunch and dinner) are not included. Food is available very easily, many options: Mensa, or several restaurants close to Faculty building, snacks and coffees in the campus. Costs of lunch is usually from 2 to 4 EUR/each, depending what someone wants. A payment of fee of registration is binding.

Contact

Contact person for technical questions:

Assistant Professor Dr. Marketa Mihalikova, CULS FAFNR, Department of Water Resources, Kamycka 129, 165 00 Prague 620 Suchdol, Czech Republic, EU, phone: +420224382572, e-mail: mihalikova@af.czu.cz

Coordination

Director of the SS:

Professor Dr. Svat Matula, CULS FAFNR, Department of Water Resources, Kamycka 129, 165 00 Prague 620 Suchdol, Czech Republic, EU, phone: +420224384636, e-mail: matula@af.czu.cz

Application form

Electronic application form to be filled directly in web site: <http://katedry.czu.cz/en/kvz/ss-2018>

Contact for the financial transfer

Payment **60EUR** should be transferred to the bank account of SS in Ceska sporitelna a.s. (Czech Republic):

IBAN: **CZ91 0800 0010 4600 0632 5762**
SWIFT CODE: **GIBACZPXXXX**
VARIABLE SYMBOL: **213806103** (used to identify the payment)

Please, put into the transfer documentation as a note your surname for the future recognition of payment! Thank you for understanding. **The transfer should be done until May 31, 2018 (all participants) and please confirm your successful payment via e-mail to Dr. Mihalikova. Thank you very much.**

IMPORTANT NOTE: *Local Turkish students should transfer equivalent of 60EUR (depends on the actual exchange rate - about 240 TRY in November 2017 in TRY) to the SS 2017 account in the Turkish bank to eliminate high costs of international bank transfer from Turkey to the EU. The bank and account number for the local Turkish students will be given at the beginning of the 2018 and displayed on the web of this SS 2017 (<http://katedry.czu.cz/en/kvz/ss-2018>).*