ERICA Series of Residential Schools

This course is the third of six intensive Residential Schools organized by the ITN ERICA network.

Marie Skłodowska Curie ITN ERICA

The ERICA Innovative Training Network is a programme funded by the European Community with an emphasis on mobility.

The ERICA MSC-ITN supports 13 Early Stage Researchers (ESR) over a period of four years. The ITN provides a series of six residential schools for the ESRs.

Some of these Schools are also open to other students.





ERICA – Engineered Calcium-Silicate-Hydrates for Applications

Residential School 3

EPFL, Lausanne, CH January 14th-16th, 2019

Lecturers

Jean-François Dufrêche, Univ. de Montpellier, FR
Yogarajah Elakneswaran, Hokkaido Univ.
David Faux, Univ. of Surrey, UK
Fabien Georget, EPFL, CH
Bruno Huet, LafargeHolcim, FR
Peter McDonald, Univ.of Surrey, UK
Steve Parker, Univ. of Bath, UK
Richard Sear, Univ. of Surrey, UK
Hong Wong, Imperial College London, UK

Organised by

Fabien Georget, EPFL, CH

Scope of Course

The present course is the third of six residential schools given as part of the MSC-ITN. The objective of the course is to introduce the students to selected methods of modelling and characterising transport in porous media.

Course Contents

The following subjects are covered in the course:

- Transport in porous media, Finite element methods of numerically solving the transport equations in simple and complex geometries.
- Lattice Boltzmann methods
- Monte Carlo and Molecular Dynamic / Atomistic methods of modelling dynamics.
- Water Transport in restricted geometries

The course consists of connected lectures and study visits to labs.

Social activities during the course are planned to promote a stimulating study atmosphere.

Work Load

The estimated work load corresponds to 1 ECTS points, including approximately 14 hours of contact and an individual report after the course.

Evaluation

In order to get the credit, the participants will have to write a short report in connection with their projects (5 pages, font size 12, double spaced).

Study Materials

Notes will be provided before the course.

Participants

The participants are expected to have a basic knowledge of cement production and concrete technology. All lectures will be given in English.

Accommodation

For those participants who need accommodation in Lausanne, we suggest:

Hotel Lausanne Guesthouse by Fassbind Rue Marterey 15 1005 Lausanne Tel: +41 21 601 80 00 lg@byf.ch

Prices per night:

Single room : CHF 120.- (including breakfast) +

CHF 2.60 city tax

Twin room : CHF 118.- (including breakfast) +

CHF 2.60 city tax

Participants are requested to make their reservation directly at Hotel Lausanne Guesthouse By Fassbind before December 14, 2018 using code ERICA-EPFL

Course Fee

The course fee of CHF 280 will apply for students. The participants will be responsible for travel, some meals and accommodation.

Further Information and Registration

Applicants should register by December 14, 2018.

Further information will be posted at:

https://www.erica-etn.eu/event/school-3/

or you may contact:

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^{*} Students are encouraged to share a twin room