

EPFL

SAAS-FEE,
SWITZERLAND

JUNE 6TH – 10TH
2022

3rd INTERNATIONAL
SCHOOL ON MODELLING

**FOR APPLIED
SUPERCONDUCTIVITY**

LOCATION: HOTEL ALLALIN



Principal Lecturers

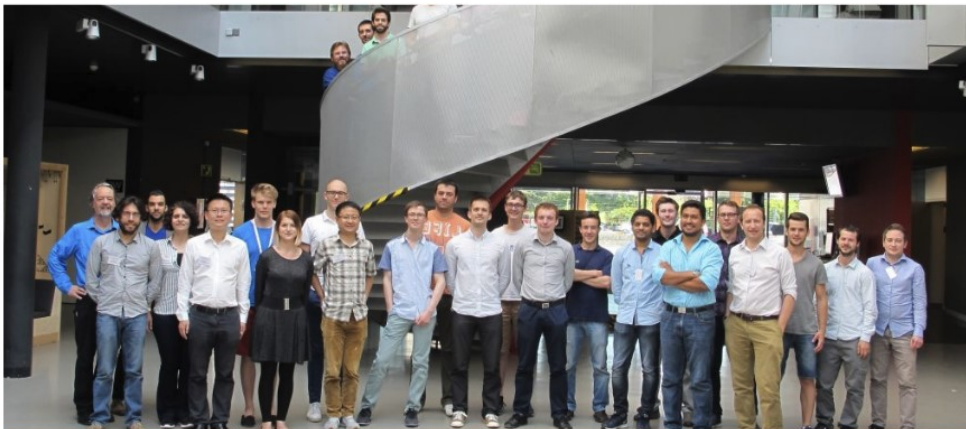
- Dr. Mark Ainslie,
University of Cambridge, UK
- Dr. Satoshi Awaji,
Tohoku University, Japan
- Dr. Arnaud Badel
Tohoku University, Japan
- Dr. Bernardo Bordini,
CERN, Switzerland
- Dr. Luca Bottura,
CERN, Switzerland
- Dr. Marco Breschi,
University of Bologna, Italy
- Dr. Guillaume Dilasser,
NeuroSpin, France
- Dr. Marc Dhalle
University of Twente,
Netherlands
- Dr. Cristophe Geuzaine,
University of Liège, Belgium
- Dr. Francesco Grilli,
KIT, Germany

Contents

1. Superconductor modelling
2. Design principles, FEM, and numerical methods
3. Electro-thermal and Electro-magnetic aspects for HTS and LTS
4. Mechanics in superconducting magnets

A hands-on summer school

Design a hybrid high-field superconducting magnet
Lectures will be followed by computer based exercises, learn through interesting practical exercises in state-of-the-art software



2 ECTS credits for PhD students

This school is funded in part by:

EPFL **ESAS**
The European Society for
Applied Superconductivity

Council on Superconductivity
IEEE CSC

20
YEARS
School of Computer
and Communication
Sciences



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