

ChE-803

Challenges and Opportunities in Energy Research

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Cursus	Sem.	Type
Chemistry and Chemical Engineering		Obl.
Energy		Obl.
Materials Science and Engineering		Obl.

Language of teaching	English
Credits	2
Session	
Exam	Written & Oral
Workload	60h
Hours	41
Courses	41
Number of positions	50

Frequency

Every year

Remark

Postponed

Summary

This Winter school focuses on the chemistry, materials and engineering challenges behind the technologies accompanying the transition to a power supply system based on renewables resources. The different symposia are specified below. Keynote lectures for an overview on the field

Content

- Chemistry, Materials and engineering challenges in Photovoltaics
- Chemistry, Materials and engineering challenges in Batteries
- Chemistry, Materials and engineering challenges in Solar to chemicals conversion
- Chemistry, Materials and engineering challenges in CO₂ utilization
- Chemistry, Materials and engineering challenges in Hydrogen storage
- Chemistry, Materials and engineering challenges in Fuel cells
- Chemistry, Materials and engineering challenges in Gas capture and separation
- Chemistry, Materials and life cycle analysis
- Poster sessions and selected talks from the abstracts

Keywords

Energy research

Resources**Websites**

- <https://nrg2018.epfl.ch/>