

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

Next time: Spring 2018

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

Note

Winter School

Keywords

Energy research

Resources**Websites**

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