

ChE-605(2)

Highlights in Energy Research (2)(2019)

Various lecturers

Cursus	Sem.	Type
Chemistry and Chemical Engineering		Obl.

Language of teaching	English
Credits	1
Session	
Exam	Project report
Workload	30h
Hours	14
Courses	14
Number of positions	

Frequency

Every year

Remark

Next time Fall 2018

Summary

- Hydrogen storage, - Metal organic frameworks, - Membranes, - Gas separations, - Hybrid materials, - Catalysis, - Engineering of energy systems, - Process systems engineering, - Photovoltaics, - Physical and Analytical Electrochemistry and

Content

Highlights in Energy Research is a new series of seminars that will take place at EPFL Valais Wallis in Sion weekly on Thursday from 10.30 to 11:30. The aim of these events is to have presentations of the most important scientific achievements from all over the world in the research fields of the activities in EPFL Valais Wallis (7 per semester) and presentations of the most recent progress of the Professors and Scientists from EPFL (7 per semester), This will be highly beneficial for the PhD students in EPFL Valais Wallis (who must attend these seminars) as they will broaden their horizons in several research areas. Furthermore, they will have the opportunity to meet the invited speakers, have lunch together with the aim to promote and encourage discussions between them, The invited scientists, experts in the fields of:

- Hydrogen storage,
- Metal organic frameworks,
- Membranes,
- Gas separations,
- Hybrid materials,
- Catalysis,
- Engineering of energy systems,
- Process systems engineering,
- Photovoltaics,
- Physical and Analytical Electrochemistry and
- Molecular simulations

Will give a 45min presentation, followed by 15min of questions. The speakers will be invited to come at EPFL Valais Wallis in Sion each semester and give their talks followed by an Apéro and lunch. The speakers will visit some labs in the afternoon and have individual discussions.

The invited speakers and talk titles will be announced at the beginning of each semester on the website.

Each student has to attend the seminar series for two academic semesters in order to collect 28 hours of attendance and thus receive 2 ECTS credits after the final report is accepted. The students have to deliver at the end of the semester a report of the seminars summarizing the most important topics of the talk, references and give a critical assessment of what they learned.

Keywords

Energy, Research Talks

Learning Prerequisites

Required courses

MA2

Learning Outcomes

By the end of the course, the student must be able to:

- Present topics learned
- Implement own work in global context

Resources

Websites

- https://www.epfl.ch/schools/sb/research/isic/news/highlights_in_energy_research/