Frequency
Every year

Remarque
Next time: Spring semester 2019

Summary
Lectures from leading members in Chemical Engineering on: Catalysis, nanotechnology, material synthesis, process engineering, separations, energy, green chemistry, biotechnology, biocatalysis, systems biology and polymer systems

Content
Concepts covered by external lecturers who are leading experts in the field of chemical engineering will include experimental and computational techniques in the fields of:

• Catalysis
• Photovoltaics and photocatalysis
• Solar fuels
• CO2 capture and sequestration
• Systems biology
• Metabolic engineering
• Synthetic biology
• Surface science
• Nanotechnology
• Materials synthesis
• Polymer systems

Learning outcomes:
To have a better grasp of the leading research being done in the field of chemical engineering and understand the level of research done by leaders in the field.

Note
Next session: Spring and Fall semester (starting Spring 2017)
Enrolment: edch@epfl.ch

Keywords
Chemical engineering, catalysis, nanotechnology, material synthesis, process engineering, separations, energy, green chemistry, biotechnology, biocatalysis, systems biology and polymers systems

Learning Prerequisites
Required courses
It is required by the course organizer to enroll for both ChE-601(1) and ChE-601(2)

Important concepts to start the course
MA2 level

Resources
Websites
• http://isic.epfl.ch/CEseminar