**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**
Important concepts to start the course
MA2 level

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