

## Energy Systems in Transition : Present and Future Technologies & Policies

June 29 to July 18, 2015, Swiss Federal Institute of Technology Zurich (ETH Zurich)

Program overview (draft)

### Lectures / Exercises / Workshops:

- Transitions to renewable Energy: Basic trends and motives, Business ideas in a changing environment (1 day workshop) with Rudolf Rechsteiner
- Hydrogen generation, storage and distribution (lectures and exercises) with Prof. Andreas Züttel
- Development of the European market for electricity and gas (lectures), negotiation simulation (negotiation on a bilateral electricity agreement) with Prof. Andreas Ambühl
- Wind energy technology and integration of renewables (lectures) with Dr. Chokani
- Principles of solar concentration, solar thermal power, solar fuels and life cycle assessment, solar photovoltaic (lectures and exercises) with Prof. Steinfeld

### Lab visits:

- Solar Concentration Facilities at PSI
- Electrochemistry Laboratory at PSI
- Further laboratories and research facilities at ETH Zurich

### Excursions:

- Grimsel hydroelectric power plant,
- Nuclear Plant Beznau
- Mont Crosin wind power plant
- Mont Soleil photovoltaic power plant

