Introduction to Electrochemical Energy

The course will include the following introductory topics in electrochemical engineering:

- Thermodynamics
- Electrode Kinetics
- Mass Transport
- Ion Support

**Applications:**
- Fuel Cells
- Batteries
- Supercapacitors
- Electrolysis

**“An introduction to the current state of the art and potential future importance of electrochemical energy conversion and storage”**

Beginning Spring Semester 2009
Time: 11:00—12:15 T/TH

Juniors & Above

Membranes have a critical role in enabling renewable energy

- Proton exchange membrane electrolysis
- Proton exchange membrane fuel cells
- Purification
- Batteries
- Reactors
- Solid Oxide fuel cells