

## SAGES Seminar – Spring 2008

### “The Role of Materials Science in Emerging Technologies”

**Faculty:**

Peter Lagerlöf            512 White            Voice: 368-6488    e-mail: pxl4@case.edu

**Writing Liaison:**

David Earle            107 Guilford        Voice: 368-8571    e-mail: durl@sbcglobal.net

**Library Liaison:**

Brian C. Gray            510 Nord Hall        Voice: 368-8685    e-mail: brian.c.gray@case.edu  
Additional Office: Kelvin Smith Library 201-H

### Assignment 3

**Power Generation, Storage and Distribution**

- 6 Groups of 3 students each will research different technologies used and/or needed for Power Generation, Storage and Distribution:

- 1) Power Generation, e.g., Wind, Nuclear, Coal/Gas, ...
- 2) Power Storage, e.g., Batteries, Capacitors, ...
- 3) Power Distribution, e.g., HT wires, Super conductors, ...

- Week 1 (March 17, 19 and 21): Search for current newspaper articles used for common reading material (e.g., the Northern Ohio Wind Power Plan) -Creation of Groups (6 groups)
- Week 2 (March 24, 26 and 28): Group research and Preparation of written briefs  
Library Resources – tentatively March 24 and 26
- Week 3 (March 31, April 2, and 4): Group Presentations

**Group Presentations (20% of final grade):**

The different aspects of the technology used Power Generation, Storage and Distribution will be presented in 20-25 minutes long group presentations.

**Brief Papers (15 % of final grade):**

The material will be summarized in a brief group report (no more than 3 pages) in addition to the group presentation. These briefs will be “Peer-reviewed” by a different group. The briefs (together with the group presentations) will be collected into an “Power Generation, Storage and Distribution group project folder.”