

# Wisconsin System Operators (WSO) Winter Series

Session 1—December 11-13, 2006

Session 2—December 18-20, 2006

## Day 1—

- **Electricity Basics, Tom Maglish, We Energies**
  - **Current, voltage and resistance**
  - **Power**
  - **Faults**
  - **DC and AC differences**
  - **Power factor**
  - **Inducing voltages**
  - **Transformers**
  
- **Per Unit System/Application to System Operating Calculations—Paul Steinberger, formerly with ATC**

## Days 2 and 3—

- **Real and Reactive Power Theory, Tom Varney, We Energies, and Mike Zahorik, ATC**
  - **Real power flow**
  - **Power flow studies (real power)**
  - **Reactive power flow**
  - **Voltage control**
  - **Power flow studies (voltage/VAR)**
  - **Additional topics in voltage control**