Topics for Today:

- Announcements
  - Term Project: Monday of finals week, split w/Thurs?
  - Matlab, ASPEN - all caught up? Now grading.
  - Office hrs: 2:00-3:00pm, Mon, Wed, Fri
  - Office: EERC 623. Phone: 906.487.2857
  - All solutions thru Ch. 15 are posted.

Chapter 13 - Power system operation, economic dispatch
  - Economic dispatch, [B] matrix.

Chapter 16 - Intro to Stability, prep for EE6210.
  - Rotor dynamics
  - H - rotor inertia, WR², units used, conversion
  - Swing Equation
  - Faults, clearing, reclosing, equal area criterion
<table>
<thead>
<tr>
<th>EE 5200 - Fall 2003</th>
<th>Listing of Term Projects</th>
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<tr>
<td><strong>On-Campus Students:</strong></td>
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<tr>
<td>Anand Ambardar</td>
<td>Contingencies in Load Flow - <em>ASPEN</em></td>
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<tr>
<td>Ranveig Jordet</td>
<td>Transformer models in EMTP: system model for 3-terminal line, single-pole tripping/reclosing.</td>
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<tr>
<td>Rob Koepp, Swen Sorvala</td>
<td>Through-Fault Calculations for D-Y Transformers - Matlab GUI Learning Software</td>
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<tr>
<td>Kevin Xingkang Wang</td>
<td>Automatic Generator Control (AGC) model using Matlab / Power Blockset</td>
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<tr>
<td>Yapa, Thushan</td>
<td>Transmission line performance: compensation, surge impedance loading, Ferranti rise, etc. (Matlab)</td>
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<tr>
<td>Yerrabelli, Ajitha</td>
<td>Transformer paralleling: matched impedance, LTCs, Phase Shifters, circulating vars, effect on performance (Matlab)</td>
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<td><strong>Remote Students:</strong></td>
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<tr>
<td>John Andre, Jeff Wyman</td>
<td>Loadflow / System Planning: Black Start Energization Plan</td>
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<tr>
<td>Chris Fultz, Chris Nagarah</td>
<td>Voltage support in transmission and distribution systems, use of cap banks, etc.</td>
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<td>Tom Ernst</td>
<td>L-G faults in double-circuit transmission lines, zero sequence coupling.</td>
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<td>Reggie Ferguson, Patrick Bromley</td>
<td>Paralleling Schemes for LTCs, Economic Evaluation, etc.</td>
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<td>Brock Ravnaas</td>
<td>Induction motor starting problems and Static Var Compensation Methods.</td>
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<tr>
<td>Derek Worrel</td>
<td>Subsynchronous Resonance (SSR) - Interaction between Generator and Series/Shunt Impedances</td>
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Proposed Term Project Presentations for Local Students:

Total Number of Projects to Present: 7

Problem
- One remote student commuting in on Monday
- One local student leaving town on Monday at 5pm
- Another local student has conflict on Monday

Suggested Solution: Schedule 2 Timeslots

Monday Dec 15th, 10-noon
1. Tom Ernst
2. Thusen Yapa
3. Kevin Way

Thursday Dec 18th, 10-noon
5. Ajitha
6. Rob & Swen
7. Pervin
Anand A.
Written Report
- Due Noon Thurs
- Print on Blue Paper (Presenting)

Questions on Format?
- Proj Idea
- Outline
- Reference List
   - Approx 10+ pages
   - 1-1/2 line spacing
   - ~ 11 point
Also:
"Out of Step"

"Synchronized" = not "slipping a pole"