Turbulence Diagnostic Workshop, Thursday through Friday at noon, Jan. 18 - 19.
Breakpoint between days to be determined

1. **Charge of meeting**
- Physics goals: to clarify by the end of the meeting
  - What an optimal suite of fluctuation measurements should strive for on NSTX
- By the end of meeting: identify measurement strategies, strengths and limitations
  - Diagnostic options
  - Possibilities for comparison with theory

2. **Theory issues and opportunities**: Physics to aim for in turbulence measurements
- Issues to pursue that can extend existing toroidal physics database
- Ranges of k likely to be of interest in NSTX
- Turbulence dynamics relevant to high beta, low A, high rotational shear
- Turbulence dynamics issues of general physics interest accessible in NSTX
- Present theory tools and opportunities for direct comparison to data

3. **NSTX plasma characteristics** observed so far
- Density (core and edge), temperature, estimated q profile characteristics
- Dynamics of plasmas and confinement evolution
- Profile measurement prospects for 2001 - 2003

4. **Diagnostic access** on NSTX
- Present and possible future accommodations for turbulence diagnostics

5. **Core turbulence** measurement techniques
- What can a given technique provide that can be directly compared with theory
- Needs from NSTX for accommodation of techniques

6. **Edge turbulence** measurement techniques
- What can a given technique provide that can be directly compared with theory
- Needs from NSTX for accommodation of techniques

7. **Discussion of strengths and weaknesses** of various techniques
- Physics pros and cons (e.g. k range, time and space resolution)
- Technical feasibility

8. **Bringing together what we have heard**
- Reprise of physics goals, what proposed techniques can access, and what they cannot access
- Discussion of possible strategies, considering the range of techniques we will have heard

9. **Summary of discussion points**
- Outline of summary document of workshop; action items