

**National Spherical Torus Experiment
Program Advisory Committee
19th Meeting**

**Princeton Plasma Physics Laboratory
Conference Room LSB-318
February 22-24, 2006**

CHARGE

There has been substantial progress towards an international Joint Implementing Agreement for ITER, resulting in the formation of the US Burning Plasma Organization and increased focus on ITPA Joint Experiments. The recent FESAC Facilities Panel Report identified key areas in which NSTX can make unique, important contributions to the science basis for ITER. The report also identified unique, important information that NSTX can provide in support of a compact U.S. Component Test Facility. It is critical that NSTX research plans support both burning plasma physics and the development of the ST configuration. Fortunately there is very substantial overlap between these goals.

NSTX has recently added critical new capability, including a unique system for highly localized high-k scattering measurements, active control of RWM coils in a configuration similar to that proposed for ITER, and intense lithium coating.

- 1) Do the proposed research plans for FY2006-08 take appropriate advantage of the new capabilities of NSTX to address both burning-plasma and ST-specific scientific goals?
- 2) Do the proposed facility and diagnostics upgrades for the FY2006-08 time frame position NSTX to maximize its contributions, given financial constraints?

AGENDA

Wednesday, February 22, 2006

1:00	Coffee & Donuts, PAC Executive Session	
1:15	Rob Goldston	Welcome and Charge to the PAC
1:25	Steve Eckstrand	Comments from DOE
1:30	Jim VanDam	Agenda and Plan of Meeting
1:35	Jon Menard	FY05 Campaign and Milestone Accomplishments
2:35	Martin Peng	Strategic Goals & Research Priorities
	(3:00 Coffee)	
3:20	Masa Ono	Facility Plans
4:05	PAC Executive Session	
6:05	Adjourn	
7:00	PAC Dinner	TBD

Thursday, February 23, 2006

8:00	Coffee & Donuts	
8:30	Jim VanDam	Feedback and Questions
8:40	Stan Kaye	Confinement Scaling and ITER Relevance
9:10	Mike Bell	Turbulence and Transport
9:40	Aaron Sontag	Macrostability
10:20	Coffee	
10:30	Eric Fredrickson	Super-Alfvénic Ion Driven Instabilities and Transport
11:10	Gary Taylor	EBW and HHFW (include Pegasus)
11:50	Lunch	
12:50	Dennis Mueller	Transient CHI
1:20	Henry Kugel	Lithium Wall Coating and Recycling Control
1:45	Rajesh Maingi	Boundary Physics
2:30	Dave Gates	Toward Stable Steady State Operation (include rampup)
3:10	Coffee	
3:20	Roger Raman	Run Plan for FY06
4:00	PAC Executive Session	
6:00	Adjourn	

Friday, February 24, 2006

8:30	Coffee & Donuts	
8:40	Jim VanDam	Feedback and Questions
8:50	PAC Executive Session	
	(10:00 Coffee)	
	(12:00 Lunch)	
1:00	Jim VanDam	Debriefing
1:30	Adjourn	