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# NSTX Program Update

College W&M  
Colorado Sch Mines  
Columbia U  
Comp-X  
General Atomics  
INEL  
Johns Hopkins U  
LANL  
LLNL  
Lodestar  
MIT  
Nova Photonics  
New York U  
Old Dominion U  
ORNL  
PPPL  
PSI  
Princeton U  
SNL  
Think Tank, Inc.  
UC Davis  
UC Irvine  
UCLA  
UCSD  
U Colorado  
U Maryland  
U Rochester  
U Washington  
U Wisconsin

**J. Menard, PPPL**

**August 29, 2007  
NSTX Team Meeting  
Princeton Plasma Physics Laboratory**

**Culham Sci Ctr  
U St. Andrews  
York U  
Chubu U  
Fukui U  
Hiroshima U  
Hyogo U  
Kyoto U  
Kyushu U  
Kyushu Tokai U  
NIFS  
Niigata U  
U Tokyo  
JAERI  
Hebrew U  
Ioffe Inst  
RRC Kurchatov Inst  
TRINITI  
KBSI  
KAIST  
ENEA, Frascati  
CEA, Cadarache  
IPP, Jülich  
IPP, Garching  
ASCR, Czech Rep  
U Quebec**

# Near-term schedule for FY09-13 NSTX 5 Year Plan



We  
are  
here

- **Wed, August 29**      **Circulate draft plan to NSTX team for comment**

## Workshop Presentation Dry-run Schedule

### Tuesday, 9/4

- 10:30 AM      Kaye      (Multi-Scale Transport)
- 12:30 PM      Menard      (ISD)
- 1:45 PM      Ono      (Facility/Diagnostic Overview)
- 3:30 PM      Sabbagh      (MHD)

### Wed, 9/5

- 10 AM      Taylor      (WEP)
- 11 AM      Maingi      (Boundary)

- **September 10**      **Draft presentations due to facilitators**  
**Coordination reports due to facilitators**
- **September 10-14**      **Final revisions of presentations**
- **September 17-19**      **Tokamak Planning Workshop at MIT**

# Long-term schedule for FY09-13 NSTX 5 Year Plan

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- **September 17-19**      **Tokamak Planning Workshop at MIT**
- **Oct. – Dec. 2007**      **Improve the draft plan**
- **January 2008**      **NSTX PAC reviews the draft plan**
- **February 2008**      **Final draft plan ready for review by the team**
- **April 1, 2008**      **Final plan (document) ready**
- **3 wks before review**      **Draft presentation material ready**
- **2 wks before review**      **Dry run of the presentation**
- **1 wk before review**      **Final presentation material ready**
- **~ May 2008 (TBD)**      **New 5 Year Plan Review meeting**

# Five Year Plan Write-up Status



		Lead	Status
Chapter 1	Overview/Introduction	M. Ono	Outline
Chapter 2	MHD	S. Sabbagh	Text
Chapter 3	T&T	S. Kaye	Text
Chapter 4	Waves & Particles	G. Taylor	Text
Chapter 5	Boundary	R. Maingi	Outline
Chapter 6	Integration	J. Menard	Outline + SFSU text
Chapter 7	NSTX and fusion development	M. Peng	After workshop
Chapter 8	Facility/Diagnostics/Control	M. Bell	Outline + intro text
Appendix	NSTX Collaboration Plan	M. Peng	After workshop

\*Start-up is included in T&T and Integration

# Message to Coordinators



- Contact your coordination partners!
- Be pro-active
- Your 4-5 page report is due Sept. 10
- Use coordination table e-mailed to you today
- **Want 1 or 2 NSTXers to be coordination summary presenters**
  - If self-organization isn't working, we'll decide for you ;)

## Tokamak Planning Workshop

Science Area	Facility Plan Presentations	Preliminary Coordination	Topical External Facilitators
Program Overview	Marmar (C-mod) Wade (DIII-D) Ono (NSTX)		
Integrated Scenario Research	Hubbard (C-mod) Luce (DIII-D) Menard (NSTX)	Wolfe (C-mod) Ferron (DIII-D) Gates (NSTX)	C. Kessel, G. Sips
Waves and Energetic Particles	Wukitch (C-mod) Nazikian (DIII-D) G. Taylor (NSTX)	Bonoli (C-mod) Prater (DIII-D) Fredrickson (NSTX)	W. Heidbrink, C. Phillips
Macroscopic Research (MHD)	Granetz (C-mod) Strait (DIII-D) Sabbagh (NSTX)	Hutchinson (C-mod) Garofalo (DIII-D) S. Gerhardt (NSTX)	C. Hegna, R. Buttery
Multi-scale Transport Research	Greenwald (C-mod) Burrell (DIII-D) Kaye (NSTX)	S. Scott (C-mod) Doyle (DIII-D) Mikkelsen (NSTX)	P. Terry, W. Dorland,
Plasma Boundary Interfaces	Lipschultz (C-mod) Allen (DIII-D) Maingi (NSTX)	Whyte (C-mod) West (DIII-D) Soukhanovskii (NSTX)	T. Rognlien, R. Nygren (R. Dorner)

# NSTX Collaboration Opportunities for 2008-2010

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- Focused on universities and industry
  - Major diagnostics not covered – to be done 2009-2011
- Letters of intent due to DOE September 11
- Proposals due to DOE October 11
  - Notice on web: <http://www.science.doe.gov/grants/FAPN07-29.html>
- NSTX Program Letter and Record of Discussion on web
  - [http://nstx.pppl.gov/nstx/NSTX\\_Program\\_Letters/](http://nstx.pppl.gov/nstx/NSTX_Program_Letters/)
  - At request of PAC, program letter contains much more background info motivating collaboration desires, and more focus.
  - Approved Record of Discussion requested to be completed by Oct. 4
  - RoD due with DOE proposal on Oct. 11