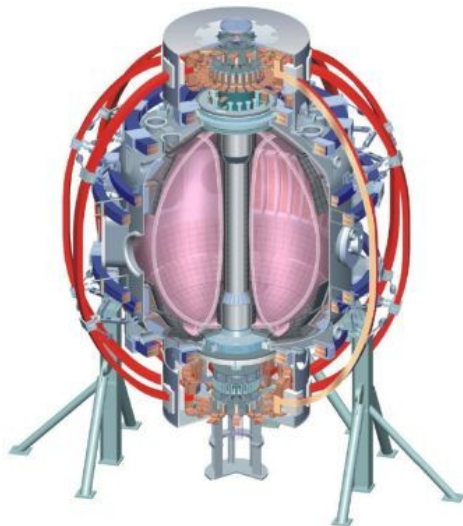


NSTX Program Update

J. Menard, S. Kaye

**NSTX Team Meeting
B318, PPPL
September 8, 2009**



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

*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
 JAEA
 Hebrew U
 Ioffe Inst
 RRC Kurchatov Inst
 TRINITI
 KBSI
 KAIST
 POSTECH
 ASIPP
 ENEA, Frascati
 CEA, Cadarache
 IPP, Jülich
 IPP, Garching
 ASCR, Czech Rep
 U Quebec*

NSTX Program Update Topics

- Laboratory collaboration solicitation
- ReNeW report completed
- Upcoming meetings
- New NSTX website being tested

ReNeW report has been completed

- Posted on the ReNeW web site:
 - <http://burningplasma.org/renew.html>
 - <https://burningplasma.org/forum/index.php?>

ReNeW			
Forum	Topics	Replies	Last Post Info
 Final Report	14	0	 Jul 13 2009, 11:38 AM In: Table of Contents By: Emily Hooks
 DRAFT Thrusts and Chits (only)	21	1	 Jun 19 2009, 07:00 PM In: Complete list of Chits for The... By: Emily Hooks
 General Interest Topics (all Themes) Subforums: Documents of general interest to ReNeW	17	0	 Jul 14 2009, 04:19 PM In: ReNeW Report Chapters in Final... By: Hutch Neilson
 Achieving and Understanding the Burning Plasma State (Theme 1) Subforums: ReNeW BP chapter, and Chit summary , Extending Confinement Panel , Alpha Particle Effects Panel , Creating a Self-Heated Plasma Panel , Controlling and Sustaining a Self-Heated Plasma Panel , Mitigating Transient Events in a Self-Heated Plasma Panel , Diagnosing a Self-Heated Plasma Panel	17	0	 Jun 8 2009, 12:03 PM In: Theme I Chit Summary By: Emily Hooks
 Creating Predictable High-Performance Steady-State Plasmas (Theme 2) Subforums: ReNeW Performance chapter, and Chit summary , Measurement panel , Integration panel , Validated predictive modeling panel , Control panel , Off-normal events panel , Auxiliary systems panel , Magnets panel	40	0	 Jul 29 2009, 10:29 AM In: Latest version of Chapter By: Emily Hooks
 Taming the Plasma Material Interface (Theme 3) Subforums: ReNeW Interface chapter, and Chit summary	7	0	 Jun 8 2009, 12:06 PM In: Theme III Chit Summary By: Emily Hooks
 Harnessing Fusion Power (Theme 4) Subforums: ReNeW Power chapter, and Chit summary	3	0	 Jun 8 2009, 02:07 PM In: Theme IV Chit Summary By: Emily Hooks
 Optimizing the Magnetic Configuration (Theme 5) Subforums: ReNeW Configuration chapter, and Chit summary , Stellarator , ST , RFP , CT , MAG Central , Cross-Configuration , Theme 5 Calendar of Events	50	29	 Jul 15 2009, 10:26 AM In: Theme Chapter By: Emily Hooks
 ReNeW Calendar of Events	--	--	Redirected Hits: 94
 Testing Area Feel free to test the operation of this Bulletin Board.	2	0	 Oct 17 2008, 10:53 AM In: Welcome to the Testing Area fo... By: Jim Dekock

Collaboration Solicitation for National Labs

- PAC teleconference reviewed program letter on July 20, 2009
- Program letter, and “Record of Discussion” to include with proposal are at:
 - http://nstx.pppl.gov/DragNDrop/Program_PAC/Program_Letters/
- Information for submitting proposals covering FY2010-12 is located at:
 - http://www.sc.doe.gov/grants/LAB09_29.html
 - Deadline for letter of intent: September 8, 2009 **(TODAY!)**
 - Records of discussion due to Jon/Masa by COB on Friday, October 2, 2009
 - Deadline for formal proposals: Thursday, 8:00pm EST, October 8, 2009
 - Scientific/Technical Program Contacts:
 - Nirmol Podder, Program Manager
 - Phone: 301-903-9536
 - Fax: 301-903-4716
 - E-Mail: Nirmol.Podder@science.doe.gov
 - or
 - Stephen Eckstrand, Program Manager
 - Phone: 301-903-5546
 - Fax: 301-903-4716
 - E-Mail: Steve.Eckstrand@science.doe.gov
 - Communications related to the formal proposal should use:
"Program Announcement LAB09-29" in the subject line.

Records of discussion due to Jon/Masa by COB Friday October 2, 2009

- High priority research areas in letter intro (partial list):
 - Understanding the impact and operation of the LLD
 - H-mode pedestal structure, SOL transport, divertor power exhaust
 - Utilization of the upgraded HHFW system
 - Supporting R&D for long-pulse pumping, power-handling, and control capabilities needed for the proposed NSTX Upgrade

Research contacts for Records of Discussion:

- | | |
|--|--------------------------------------|
| 1. Macroscopic Plasma Physics: | Stefan Gerhardt (sgerhardt@pppl.gov) |
| 2. Multi-Scale Physics (Transport): | Stan Kaye (skaye@pppl.gov) |
| 3. Plasma Boundary Interfaces: | Bob Kaita (rkaita@pppl.gov) |
| 4. Waves and Energetic Particles: | Gary Taylor (gtaylor@pppl.gov) |
| 5. Start-up/Ramp-up w/o Solenoid: | Mike Bell (mbell@pppl.gov) |
| 6. Physics Integration: | Jon Menard (jmenard@pppl.gov) |

Upcoming meetings / events

- MAST Results Review/Research Forum: September 14-15
 - Contact Joanne Savino for remote participation information
- NSTX Results Review: September 15-16
- NSTX Run Assessment: September 17
- **A few others...**
 - Fusion-Fission Research Workshop
 - September 30 - October 2, Gaithersburg, MD
 - <http://web.mit.edu/fusion-fission/>
 - 12th International Workshop on "H-mode Physics and Transport Barriers"
 - September 30 - October 2, 2009 at PPPL
 - <http://www.pppl.gov/conferences/2009/Hmode3dayworkshop/>
 - ITPA Transport & Confinement/Pedestal
 - October 5-7, 2009 at PPPL
 - <http://itpa09.pppl.gov/>
 - ITPA Pedestal & Edge Physics Topical Group Meeting
 - October 6-8, 2009 at PPPL
 - <http://itpa09.pppl.gov/>
- **NSTX Research Forum – dates TBD: likely week of Nov. 16 or Dec. 14**
- **NSTX PAC-27 – working on dates – likely in Feb. 2010**

New NSTX web-site undergoing beta testing

- Solicited comments from TSG leaders → several helpful suggestions
- Please send your comments to: jsavino@pppl.gov and jmenard@pppl.gov



The screenshot displays the NSTX website interface. On the left is a vertical navigation menu with blue buttons for: Accomplishments, Drag & Drop, Home, Meetings, Operations, Organization, Overview, Program, Project, Publications & Presentations, Software, Topical Science Groups, and NSTX Upgrade. At the bottom of the menu are logos for PPPL and other institutions. The main content area features the NSTX logo and title, a large group photo of the team, and a section titled "Quick Links for Additional Information on NSTX:" with a list of links: Run Schedule, Approved Experimental Proposals, Monday Physics Meetings, Scientific Conferences, Annual Research Forum, and NSTX Five Year Plan. A note at the bottom of the links section states: "(Some of the documents listed above are in PDF format. You will need Acrobat Reader to view them. A free copy of Acrobat Reader can be downloaded from [Adobe's Web Site.](#))"

- http://nstx.pppl.gov/nstxweb_2009/index.html