

At PPPL THIS WEEK

TUESDAY, SEPTEMBER 6

Hiroshi Yamada Colloquium

9:30 a.m. - 10:30 a.m. • Auditorium
http://www.pppl.gov/pol/Doc.cfm?Doc_Id=999

NSTX Physics Meeting: Jong-Kyu Park

1:30 p.m. - 3:00 p.m. • LSB-318

WED., SEPT. 7 — SAT., SEPT. 10

MFE Roadmapping in the ITER era

McDonnell Hall, Princeton University
Main Campus

For more information go to:
[http://advprojects.pppl.gov/Roadmapping/
agenda.asp](http://advprojects.pppl.gov/Roadmapping/agenda.asp)

WED., SEPT. 7 — FRI., SEPT. 9

22nd International Conference on Numerical Simulations of Plasmas

Long Branch, NJ

For more information go to:
<http://icnsp2011.pppl.gov>

THURSDAY, SEPTEMBER 8

Lunch-n-Learn: Lean Concepts: Advanced Kanban

12:00 p.m. • LSB-318

FRIDAY, SEPTEMBER 9

DIII - D Science

1:00 p.m. - 2:30 p.m. • B-233

GFDL EVENTS AND SEMINARS

September 7, 2011

Stratospheric and Asian impacts on tropospheric ozone over western North America

12:00 pm - 1:15 pm

Smagorinsky Seminar Room

www.gfdl.noaa.gov/events

(Gov't, Univ. or 2 other forms of I.D. needed for entry.)

PPPL Rolls Out Its New Logo

By Patti Wieser



Artist's rendering of the entrance sign to come

It exudes energy. It reflects discovery. It speaks innovation.

It is a sun-like disc, with light emanating outward. Its roundness is reminiscent of plasma, with heat deep at the core. Its colors are bold and bright.

The new logo and graphic identity system are the result of more than 14 months of a collaborative effort between the Princeton University Office of Communications and a team at the PPPL Office of Communications. Princeton University Creative Director Laurel Cantor designed the logo.

“The new logo for PPPL looks wonderful - very dynamic,” said PPPL Deputy Director for Operations Adam Cohen. “Developing this logo took tremendous effort by many people.”

The icon is designed to mesh well with the ideals of the Laboratory. “The target concepts we wished to convey with the new logo were energy, the future, science, and fusion,” Cantor said. “The new PPPL logo is energetic, bright, powerful, modern, clean and unique.”

[Click to read more](#)

Letter from the Director: NSTX Plans



Dear PPPLers:

As you may know, we suspended operations on NSTX on July 20 due to a technical problem. This occurred during NSTX system tests at the start of the experimental campaign, which was to be followed by a 2.5-year outage to implement the upgrade. The NSTX center stack had operated successfully for seven years and more than 20,000 plasma shots.

Over the past several weeks, our NSTX engineering staff has invested an enormous effort in diagnosis so that we could understand the cause of the problem and be equipped with the information we need to move forward.

[Click to read more](#)

PPPL Rolls Out Its New Logo-Cont'd



The symbol maintains a visual connection between Princeton University and the Laboratory, and complements the logos of the Department of Energy and Princeton University.

Last summer, the Laboratory embarked on a mission to develop a new logo and visual identity, and began working with Cantor and her team. During the summer and fall of 2010, about 25 percent of the PPPL staff participated in workshops that helped the designers prepare for the creation of a new graphic identity for the Lab. These workshops included the study of other research entities' and institutions' logos, and exercises to help the staff pinpoint key values of the institution.

Cantor and her team designed an array of concepts for PPPL's new logo, and presented these to a small PPPL logo committee early in 2011. The committee, after careful deliberation, chose the new look. The Lab Council approved the logo in June. The new logo replaces the PPPL logo designed a decade ago.

The new logo will be integrated into much of the visual identity of the lab in a rollout process that begins this month, and will gradually proceed over the next several

months. Staff members are encouraged to use the new logo on all presentations, materials, and websites. To do this, employees can go to the webpage, "PPPL's New Logo: A How-to Guide," on PPPL's internal site at: <http://www-local.pppl.gov/identity.cfm>. This guide was prepared by Cantor and adapted by the PPPL Communications group. It includes downloadable files, ink colors, suggested complementary type styles, sizing instructions, and PowerPoint cells.

PPPL graphic designers are redesigning the Laboratory's publications and materials to incorporate the new logo and graphic design. This issue of the PPPL Weekly includes the new logo and look. The new logo also will serve as a focal point of a redesigned Lab website, planned over the next several months. The Plasma Hutch will soon include stock decorated with the new logo. Road signs with the new logo will be added on the PPPL property.

Stay tuned for an announcement about the Logo Rollout Party, which is being planned for early fall.

PPPL Logo Committee

Patti Wieser, Project Manager • Chris Cane • Adam Cohen • Greg Czechowicz • Pamela Hampton Kitta MacPherson • Susan Murphy-LaMarche

Letter from the Director: NSTX Plans-Cont'd

On July 20 an electrical arc occurred within the NSTX center stack. In the past month, the center stack has been disassembled and autopsied for the cause of the arc. The NSTX engineers have performed very clever and careful detective work. The probable cause, now understood, is related to weak insulation in selected spots in the toroidal field magnets that wind through the center stack and back around the vessel.

We have had detailed discussions with NSTX staff and relevant DOE staff about the various options going forward. A plan is now in place.

We have carefully considered two options: (1) Constructing a replacement to the irreparably damaged center stack which would enable us to resume the experimental run in roughly 11 months or (2) starting the upgrade installation immediately, leading to completion of the upgrade 6 - 9 months earlier than originally planned.

We have decided to embark on the second option - immediately starting the upgrade installation at full force, pending DOE approval. One main advantage of this option is that it optimizes the physics productivity viewed over a five-year time period. We are essentially trading pre-upgrade experiments (of the first option) for experiments in the upgraded facility. The disadvantage of our plan is the loss of near-term data and the lost efforts of the entire NSTX team to prepare for a run that now will not occur.

The impact of the near-term absence of data on individual scientists is major. But, we will greatly minimize that impact through alternative compelling research activities for the next couple of years, carefully worked out with each individual staff member.

We are fortunate that the NSTX upgrade team is ready to launch the construction at this early date. The silver lining in this situation is the resulting early start of research with the upgraded facility.

A critical conclusion of the current investigation is that the weakness in the insulation between the toroidal field magnets found by the NSTX engineers does not carry over to the center stack design for the upgrade. The new design is different from the old design. Because of the importance of this conclusion, we have convened an external panel of magnet experts to review the cause of the fault and its implications, if any, for the upgrade design.

Following the review, which will occur on Wednesday, Sept. 7, DOE will grant us permission to move forward with the upgrade (if appropriate).

That's the story. Please let me know if you have any questions or concerns. I will be back in contact after the Sept. 7 review.

Stewart

Stewart Prager is Director of the Laboratory

Students and Educators Show Off Their Summer Work



U.S. Representative Rush Holt (in red tie fourth from left in the back row), New Jersey Assemblywoman Linda Greenstein (in bright pink jacket in the front row), and New Jersey State Representative Daniel Benson (in brown jacket third from left in the back row) were among the officials and staffers who came to the Laboratory to laud the high school and undergraduate interns, as well as the educators. PPPL Science Education Program Head Andrew Zwicker is also at the event (in the back row wearing a white shirt).

Several dozen students and teachers involved in PPPL summer programs presented summaries of their scientific work to elected officials from New Jersey during an August 10 poster session in the PPPL Lobby. (Photos by Elle Starkman)



High school summer intern Peter Ku (left) explains his poster to Representative Benson.



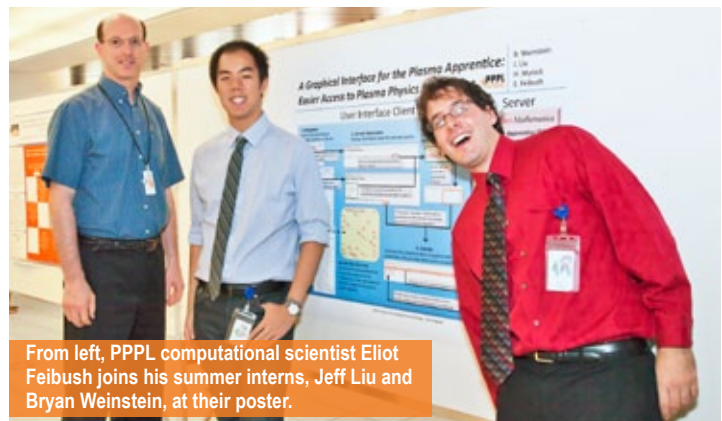
From left, Assemblywoman Greenstein, high school summer intern Raman Maingi, and Representative Benson at the poster session.



Congressman Holt (left) presents a certificate to Yi-Hsuan Lin, a Summer Undergraduate Laboratory Internship student.



Congressman Holt shakes hands with high school intern Janie Gu.



From left, PPPL computational scientist Eliot Feibush joins his summer interns, Jeff Liu and Bryan Weinstein, at their poster.

International Workshop

MFE Roadmapping in the ITER Era

Princeton, New Jersey, U.S.A
7-10 September, 2011

<http://advprojects.pppl.gov/Roadmapping/>

ICNSP 2011

*Twenty Second International
Conference on Numerical
Simulations of Plasmas*

September 7 - 9, 2011

Long Branch, New Jersey, USA

<http://icnsp2011.pppl.gov>

Topics:

- *Magnetic & Inertial Fusion Plasmas*
- *Space & Astrophysical Plasmas*
- *High Intensity Beams and Laser Plasma Interactions*
- *Low Temperature Plasmas*
- *Numerical Methods & High Performance Computing*
- *Data Management and Visualization*

Join us at the Jersey Shore



COLLOQUIUM

ALTERNATIVE AND
COMPLEMENTARY ROLE OF
THE LARGE HELICAL DEVICE

PROFESSOR HIROSHI
YAMADA

NATIONAL INSTITUTE FOR
FUSION SCIENCE

September 6

9:30 a.m.

(Coffee/Tea at 9:15 a.m.)

**Lyman Spitzer Building,
MB Gottlieb Auditorium**



**LEAN CONCEPTS:
“ADVANCED KANBAN”**

ANDY MORRISON
PPPL Best Practices

Thursday, September 8, 2011

12:00P.M.

Lyman Spitzer Building, Room B318

Kanban, a Japanese term for signal, is the term applied to sizing material requirements, and how to handle demand and work content variations in Lean Practice. This Lean Flow Concepts session covers Advanced Kanban methodology, defining basic and advanced ways Kanban can be used. Kanban is used by thousands of facilities around the world, primarily as a material replenishment system. This session covers applications, types of signals, types of Kanban for most of the advanced Kanban systems that are available today.

September 11th observance

The Lab will be observing a moment of silence on Monday, Sept. 12 at 8:46 a.m. to honor those lost during the tragic events of Sept. 11, 2001. The time marks the moment when a plane struck the first of the two World Trade Center towers.



It's All on Sale at the Plasma Hutch!

Come to Human Resources (B173) before they're all gone!

- T-shirts - \$5 (sorry, no x-large)
- Collared shirts - \$10
- Travel mugs - \$5 (just a few)
- Travel clocks - \$5 (just a few)
- Holiday ornaments - \$1



BLOOD DRIVE

SEPTEMBER 30, 2011

8:00AM - 2:00 PM

The Mobile Van will be located in the Lower End Parking Lot on Friday, September 30th between 8:00 am and 2:00 pm.

If you are willing and able to donate, please schedule an appointment by calling OMO at extension 3200.



Tuesday, September 6
Pasta Bar



Thursday, September 8
Turkey Meatloaf



Monday, September 5



Wednesday, September 7
Chicken Fajitas



Friday, September 9
Baked Potato Bar



THIS WEEK'S SNACKS!

**Tuesday, September 6
Warm Pretzels**

**Thursday, September 8
Real Fruit Smoothies**

MENU SUBJECT TO CHANGE WITHOUT NOTICE

WEEKLY

Editor: Patti Wieser ♦ Copy Editor /Graphic Design: Gregory Czechowicz
Photography: Elle Starkman ♦ Web: Chris Cane ♦ Administrative Support: Pamela Hampton

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Deadline for submissions is noon on Thursdays. Send to: pwieser@pppl.gov ♦ Comments: commteam@pppl.gov
PPPL WEEKLY is archived on the web at: <http://www.pppl.gov/ppplweekly.cfm>