

At PPPL
THIS WEEK

MON. - FRI., APRIL 15 - 19

Lab clean-up for Earth Week

TUESDAY, APRIL 16

PPPL Colloquium

4:15 p.m. ♦ MBG Auditorium

The Promise of Urban Science

Steven S. Koonin, New York University

Refreshments at 4 p.m. in the LSB Lobby

WEDNESDAY, APRIL 17

PPPL Colloquium

4:15 p.m. ♦ MBG Auditorium

Fundamental Physics and the LHC:
 A Progress Report

Nima Arkani-Hamed, The Institute for
 Advanced Study

Refreshments at 4 p.m. in the LSB Lobby

Quant Finance Talk

4 p.m. ♦ Main Campus, Jadwin Hall
 Room 107, PCTS Seminar Room

For student, graduate students and post
 docs. Cedomir Crnkovic, managing
 director of D.E. Shaw & Co.

THURSDAY, APRIL 18

PPPL Celebrates Earth Day

10:30 a.m. - 1:30 p.m. ♦ Lobby

Displays, speakers and prizes and free
 lunch for audience members

Special Earth Day Colloquium

Noon ♦ MBG Auditorium

How Global Warming Is Heating Things
 Up at Work

John P. Dunne, GFDL

UPCOMING EVENTS...

April 28

**Communiversy
 Festival of the Arts**

1 - 6 p.m. ♦ Downtown Princeton

Volunteers needed. Please contact
 Jeanne Jackson DeVoe at jjackson@pppl.gov.

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Circle your calendar!

PPPL's Open House is on for June 1

By Jeanne Jackson DeVoe

PPPPL's Open House is on for June 1 from 9 a.m. to 4 p.m., so mark your calendar, spread the word to friends and family and prepare to roll up your sleeves and have some fun.

The Open House is an opportunity for the Laboratory to give the community, friends and family a behind-the-scenes look at PPPL's research, including the NSTX, and to see other seldom seen areas of the Laboratory, such as the smaller experiments, support operations, Emergency Services Unit and the machine shops, says John DeLooper, the Open House Committee chairperson.

"This is a rare opportunity for folks and their families and loved ones to see what we do," DeLooper said. "It's a chance to show the breadth of activities at the Laboratory."

The theme of the Open House is "hot plasma, cool science," and there will be self-guided tours, science displays and demonstrations for all ages and hands-on science activities for children about magnetic fusion, energy and science. In addition, plans include a moon rocks display from NASA, lectures on fusion by PPPL Director Stewart Prager, a cryogenics show, firefighting demonstrations and numerous other activities as well as refreshments and giveaways.



Adam Cohen, left, leads visitors on a tour of the NCSX site during the 2010 Open House.

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Princeton Trustees visit PPPL



Charles Gibson, former anchor of "ABC's World News" and co-anchor of "Good Morning America," and Pyper Davis, chief operating officer of the SEED Foundation, get a tour of the Science Education laboratory during visit to PPPL on April 4. Both are members of the Princeton University Board of Trustees. The two met with Director Stewart Prager and Deputy Directors Mike Zarnstorff and Adam Cohen, along with John DeLooper, Head of Best Practices and Outreach, and also saw NSTX and LTX. From left to right: Andrew Zwicker, Aliya Merali, Charles Gibson, John DeLooper and Pyper Davis.

(Photo by Adam Cohen)

Dance and Climate Talk Highlight Earth Day at PPPL

By Jeanne Jackson DeVoe

PPPL has hosted all sorts of colloquia and lectures in its more than 60 years of history but it's safe to say that this year's Earth Day celebration will be the first time the Laboratory will host a Native-American dance performance.

Emilie Jeffries, a consultant with Kairos Consulting who has been working with the DOE's record management system since November, will perform a Women's Traditional Dance in full regalia along with other Native American performers during the Earth Day festivities in the MBG Auditorium beginning at 11:15 a.m.

The performance will be followed by the Green Awards and a special Earth Day colloquium by John Dunne, a research oceanographer with the National Oceanic and Atmospheric Administration's Geophysical Fluid Dynamics Laboratory on: "How climate change is affecting your work." Audience members will enjoy a pizza lunch while they listen and there will be a raffle.

Dunne is the lead author of a study on the effects of global warming on worker productivity, which found that rising temperatures worldwide over the past few decades has led to a 10 percent drop in people's ability to do their work safely.

Margaret King, Building and Grounds Supervisor, and a leader of the Earth Day effort, noted that the theme of PPPL's Earth Day celebration this year is "Be the Face of Climate Change." "I think that's a great theme because it becomes personal because you're looking at people and what they can do to make a change that is beneficial to the environment."

The celebration also offers Lab leaders the chance to recognize achievements and redouble efforts to reduce human-made impacts. "Earth Day allows us to recognize the outstanding contributions of our colleagues in minimizing waste and saving energy while at the same time refocusing our efforts to minimize the Laboratory's environmental footprint in the work we do every day," said Robert Sheneman, head of the Environmental Services Division.

In addition to the Earth Day festivities in the auditorium, there will be Earth Day displays in the lobby all morning from 10 a.m. to 1 p.m., including a display by Jeffries and her colleagues of Native American artifacts.

Jeffries, who is of the Occaneechi-Saponi nation, indigenous to Clarksville, Va., says that performing the dances is a way of educating people about her culture and the importance of protecting the earth. She and her dance group, RavensWing, dance on weekends at powwows and conduct educational programs at venues along the East Coast from the Norfolk Public Library System and the U.S. Army base at Fort Lee, Va. to the Yonkers River Festival in New York. With only 600 descendants of her tribe still living, "it's sort of my legacy to help educate people about my culture and honor my father's people," Jeffries explained. Jeffries also has a bimonthly radio show called "Voices of Our People," on Two Worlds Indigenous Radio that broadcasts from WMNF 88.5 in Tampa.



Guest speaker John Dunne of GFDL. (Photo courtesy of GFDL)



Emilie Jeffries, shown here in native regalia, will be one of three Native-Americans performing at PPPL's Earth Day celebration on April 18. (Photo courtesy of Emilie Jeffries)

In addition to Jeffries' Women's Traditional dance, she will be joined by a Men's Traditional dancer of the Lakota nation, a Men's Grass dancer from the Tuscarorra nation and a Jingle Dress dancer and her daughter, of the Mohawk-Tsalagi-Nanticoke nations. "We dance to honor Mother Earth and all the things she provides for us in order for us to live," Jeffries said. "The Jingle Dress Dance is a medicine dance, a healing dance. So I'm bringing the Jingle Dress dancers in to dance for the healing of Mother Earth."

The activities cap Earth Week activities that include a Lab-wide cleanup. Everyone is encouraged to clean out his or her offices and work areas. On April 17, volunteers will do a spring cleaning of the PPPL grounds from 10:30 a.m. to noon. Volunteers are still needed and will enjoy free lunch! Please email Joanne Bianco at jbianco@pppl.gov to volunteer.

Unicor will collect electronic equipment brought in from home in the C Site Lower End Parking Lot on April 18 from 7:30 to 10 a.m. Donations can include everything from old televisions to discarded computer equipment.

Please contact the following people for information on recycling or disposing of the following materials:

- Electronic equipment from home April 18 in the C Site Lower End Parking Lot, 7:30 a.m. to 10 a.m. Kyron Jones, ext. 3326 or Margaret King, ext. 3652.
- Paper and other recyclables: Margaret King, mking@pppl.gov, ext. 3652 for more recycling bins.
- Scrap metal and wire: Matt Lawson, mlawson@pppl.gov, ext. 2716.
- Excess property; Kyron Jones, kjones@pppl.gov, ext. 3326.
- Cleaning supplies: Margaret King, mking@pppl.gov, ext. 3652.
- Chemicals: Maria Pueyo, mpueyo@pppl.gov, ext. 2213. ☑

Reporting Adverse Events and Conditions – for all PPPLers



By **John DeLooper** - Head, PPPL Best Practices and Outreach

Did you know that when an adverse event or condition is discovered at PPPL, we might have to report it to the DOE Occurrence Reporting and Processing System (ORPS)? So what is an adverse condition or event? An event is when something significant and real-time happens such as an electric shock, a fire, or an occupational injury (other examples in the box below). A condition is any as-found state that may have adverse safety, health, quality assurance, operational or environmental implications, such as a counterfeit circuit breaker installed in a PPPL system.


If you see an adverse event or condition or even something that just doesn't seem right, you need to inform the Emergency Services Communications Center at ext. 3333 as soon as possible or call ext. 2536 for non-emergencies or go to Room LSB-131. The Communications Officer will notify the ESU Captain and the PPPL ORPS Facility Manager who will respond as needed. A PPPL ORPS Facility Manager (FM) is on call 24 hours a day, seven days a week to evaluate each condition or event. Procedure GEN-006 provides detailed instructions for evaluating and reporting these to DOE. Facility managers are listed below.

Based on the procedure, the FM determines if something is reportable to DOE. If it is, a formal report goes to DOE within established time frames. In some cases, the initial report has to be given to DOE within 15 minutes or two hours. Once the report is submitted, the Laboratory determines what if any investigations or corrective actions are necessary. In some cases little if any action is required. In other cases, the Laboratory appoints a formal investigation team, which conducts a review that includes a root cause analysis. That review results in a listing of Judgments of Need (JON), which are resolved by developing corrective actions to address each JON. Each

of the corrective actions is entered into a DOE database and is tracked to closure. PPPL's Quality Assurance also tracks corrective actions internally.

Each event or condition causes us to evaluate our processes to make sure we are doing things correctly. Our staff often gets the impression that we are adding layers upon layers of additional rules, processes and procedures. But that is not the case. True, we need to make sure a minimum set of rules is documented in a policy or procedure. However, we often look at the system and try to improve it and even simplify it. For example, an event last year caused us to look at the occurrence reporting procedure and two other associated procedures. We concluded that these three separate documents had overlapping requirements and could be simplified. As a result, a process improvement team reduced the three procedures to one. This was not a quick fix. The team developed a flow chart to diagram the process to make sure all of the necessary steps were completed but also used the flow process to eliminate unnecessary steps. The changes were submitted to a peer review to ensure that the expectations were clearly defined for the individuals who would carry out the process. Overall, this took more than six months to complete since all the folks on the team had other responsibilities to fulfill.

Ideally, the Laboratory will never have another adverse event or condition. However, it's vital that you notify the Communications Center if something does happen so that we can report, resolve and learn from the event or condition and continuously improve our processes.

Remember, if you see an adverse event or condition, you must inform the Emergency Services Communications Center as soon as possible (ext. 3333 for emergencies and ext. 2536 for non-emergencies or Room LSB-131). 

Box 1 Events and Adverse Conditions

- EVENT EXAMPLES**
- Occupational injury or illness
 - Electric shock
 - Occupational exposure (e.g., noise; asbestos; chemicals; etc.)
 - Radiological exposure
 - Hospitalization due to work related injury
 - Fatality
 - Equipment failure (e.g., dropped lift)
 - Fire/explosion
 - Spill/ release to environment
 - Compliance failure (e.g., ES&H system violation)
 - Utility outage
 - Security threat
 - Near miss (e.g, vacuum window explosion)

Box 2 Adverse Conditions

- ADVERSE CONDITION EXAMPLES**
- Installed suspect/ counterfeit item
 - Complaint (e.g., ethics violation)
 - Audit/assessment (e.g., failure to comply with CFR)
 - Calculation/ design error (e.g., an error that could lead to catastrophic failure)
 - Export control issue
 - Incorrect parts, materials (e.g., wrong transformer)
 - Fraud, waste, abuse
 - Research misconduct

Box 3 Facility Managers

- FACILITY MANAGERS**
- William Blanchard
 - Lawrence Dudek
 - Charles Gentile
 - Timothy Stevenson
 - Alfred von Halle



Open House - June 1

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The last open house at PPPL in 2010 attracted 2,000 people and PPPL is hoping even more people will attend this year's event.

The Open House committee has been busy planning the event for several weeks and the exhibits committee wants to hear from PPPLers about exhibits and hands-on activities. "We want your ideas," DeLooper said.

The large crowds and great activities at the Open House mean that the Laboratory needs everyone at PPPL to pitch in and volunteer two hours of their time to help out with exhibits, parking, crowd control, food, setup and cleanup, information booths and hosts for the event. That will give everyone a chance to spend most of the day with friends and family. "We need everyone's help," DeLooper said.

The committee will be asking for volunteers in early May. If you have an idea for an experiment, display, demonstration or presentation for the Open House, please contact Arturo Dominguez, the chair of the exhibits committee, adomingu@pppl.gov or John DeLooper, jdelooper@pppl.gov. ☺



Children test out a plasma ball and other devices at the 2010 Open House.



PRINCETON PLASMA
PHYSICS LABORATORY
OPEN HOUSE
JUNE 1, 2013

Volunteer for Communiversy: A fun way to show off PPPL



Hutch Neilson, far right, head of advanced projects at PPPL, and physicist Francesca Poli, far left, talk to visitors about the ITER model.

Volunteer and join in the fun at Communiversy Festival of the Arts on Sunday, April 28 from 1 to 6 p.m. The annual event, sponsored by Princeton University and the Arts Council of Princeton, attracts thousands of visitors and features more than 200 artists, crafters, merchants and organizations from the area. We need PPPL volunteers at the PPPL booth to give one or two hours of their time to talk to members of the public, help with demonstrations and hand out prizes. Please contact Jeanne Jackson DeVoe, jjackson@pppl.gov, ext. 2757 to volunteer. More information about Communiversy is available at the Arts Council of Princeton [website](#).

COLLOQUIUM



The Promise of Urban Science

STEVEN S. KOONIN
New York University

Tuesday, April 16

4:15 p.m. (Coffee/Tea at 4 p.m.)
M.B.G Auditorium, Lyman Spitzer Building

COLLOQUIUM



Fundamental Physics and the LHC: A Progress Report

NIMA ARKANI-HAMED
The Institute for Advanced Study

Wednesday, April 17

4:15 p.m. (Coffee/Tea at 4 p.m.)
M.B.G Auditorium, Lyman Spitzer Building



**YOU MAY BRING THE FOLLOWING ITEMS FROM HOME
FOR RECYCLING ON APRIL 18, 2013**
All Electronic Equipment Including:

- | | | |
|----------------------------|-----------------------------|----------------------------|
| Electronic Gadgets: | Household Equipment: | Computer Equipment: |
| Cameras | Televisions | Laptops |
| Camcorders | DVRs | Desktop Towers |
| MP3 Players | Cable Boxes | Modems |
| Gaming Systems | Copiers/Printers/Faxes | Keyboards |
| (Handheld & TV Systems) | Telephone Systems | Mouses |
| Calculators | | Monitors (CRT & LCD) |
| Microscopes | | Printers |
| Telescopes | | Computer Wires |
| PDA's | | Hard Drives |
| | | DVD/Tapes |
| | | Circuit Boards Drivers |

**Reminder - Please delete all sensitive material from cell phones and desktops.*

All items will be collected at the C Site Lower End Parking Lot, Warehouse Access Door Area from 7:30 a.m. - 10 a.m. Do not bring items to the lobby. Any questions please contact Kyron Jones at x3326 or Margaret King x3652

JUST BREATHE

Mindfulness Series

Mindfulness is the practice of purposely focusing your attention on the present without drifting into concerns about the past or future.

Fridays: 4/26, 5/10, 5/24, 6/7

12-12:30 p.m. Furth Plasma Physics Library

FOR PPPL STUDENTS, FACULTY, AND STAFF

Drop in as often as you can! No registration is required.

Learn to quiet the mind and ease physical distress. This mindfulness series will provide an opportunity to slow down in this fast-paced setting, and to experience balance and a sense of calm.

Facilitated by Shefalika Gandhi, LCSW, University Health Services. Sponsored by Princeton Plasma Physics Laboratory (PPPL). Email mgonzalez@pppl.gov for more information.

Café at PPPL Menu

BREAKFAST 7 a.m. • 10 a.m.
CONTINENTAL BREAKFAST 10 a.m. • 11:30 a.m.
LUNCH 11:30 a.m. • 1:30 p.m.
SNACK SERVICE until 2:30 p.m.

Mark Gazo, Chef Manager

COMMAND PERFORMANCE
CHEF'S FEATURE

	MONDAY APRIL 15	TUESDAY APRIL 16	WEDNESDAY APRIL 17	THURSDAY APRIL 18	FRIDAY APRIL 19
	SWEET & SOUR CHICKEN OVER JASMINE RICE	NACHOS GRANDE	LOUISIANA GUMBO SERVED OVER RICE	STUFFED SHELLS WITH MARINARA SAUCE ✓	RAVIOLI ✓
EARLY RISER	Biscuit, Sausage, Egg & Cheese	Sausage, Bacon & Pepper Omelet	Western Style Breakfast Pizza	Raisin Walnut Pancakes ✓	Greek Omelet
COUNTRY KETTLE	Chicken with Wild Rice	Vegetarian Black Bean ✓	Portobello Mushroom Barley ✓	Bean & Bacon	Vegetarian Chili 🍅
GRILLE SPECIAL	California Turkey Burger with Avocado on Wheat Roll 🍅	Roast Beef & Cheddar on an Onion Roll	Chicken Egg Foo Yung with Brown Rice <small>PACIFIC RIM ADVENTURE</small>	Grilled Chicken Pepperonata served over Polenta	Grilled Cheese with Tomato & Bacon
DELI SPECIAL	Salami & Provolone Hoagie	Smoked Turkey & Provolone Focaccia with Cranberry Mayo	BBQ Chicken Salad Wrap	Roast Beef & Cheddar on Onion Roll	Tuna Salad & Cheddar Cheese on Multigrain Bread ✓
PANINI	Italian Sausage, Provolone, Peppers & Onions Ciabatta	Pulled Chipotle Chicken Wrap	Vegetable & Cheese Stromboli ✓	Rosemary Chicken with Fresh Mozzarella Ciabatta	Grilled Hawaiian Cordon Bleu Panini <small>PACIFIC RIM ADVENTURE</small>

MENU SUBJECT TO CHANGE WITHOUT NOTICE

[CLICK HERE FOR A PRINTABLE WEEKLY MENU](#)

WEEKLY

Editor: **Jeanne Jackson DeVoe** ♦ Layout and graphic design: **Gregory J. Czechowicz**
Photography: **Elle Starkman** ♦ Web: **Chris Cane** ♦ Admin. support: **Pamela Hampton**

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