

Director Goldston Delivers Annual State of the Lab

Annual Event for Staff includes Breakfast, Talk, and Awards



Above, PPPL Director Rob Goldston presents his State-of-the-Lab address to a full house in the MBG Auditorium on November 22. He shows the audience a sextant, which is used for finding latitude, while comparing the difficulties faced by fusion scientists of today and 18th century scientists trying to determine longitude at sea. At right top, Masa Ono (left) and Ernesto Mazzucato go through the breakfast line in the Lobby. At bottom right, the staff enjoy Goldston's talk.

on November 22, PPPL Director Rob Goldston delivered his annual State-of-the-Lab talk. This year he asked, "What is Fusion Research Like?" Addressing a full house in the MBG Auditorium, Goldston summarized the answer by saying, "Fusion research is long term, scientifically challenging, and critical to the nation and the world."

As in previous years, the talk was marked by a nautical theme. Director Goldston pointed out that the time horizon, scientific reach and strategic importance of fusion is very much like that of the problem of accurately determining longitude at sea, which challenged 18th century scientists and engineers. Like the impact of success in determining longitude at sea, which opened the world to international trade, the impact of fusion energy will be far-reaching.

Goldston also discussed the Lab's accomplishments during the past year and plans for the next, the importance of doing all operations "safely, safely, safely," noted new employees and promotions, and congratulated staff on awards received during the past year. "Teamwork is how we succeed," he said.

Prior to the talk, the Director hosted a breakfast for all staff in the LSB Lobby. Following it, he presented the Kaul Prize and PPPL Distinguished Engineering Award (see page 3).





A pdf of the 2005 State-of-the-Lab address is available on PPPL's internal web page at http://www-local.pppl.gov/director/SOL_2005.pdf

PPPL's Generous Spirit Reflected through United Way

PPL kicked off its one-day United Way campaign on December 1 with a meeting in the MBG Auditorium about United Way and its programs. The event featured remarks from PPPL Director Rob Goldston and United Way representative Jesse Starks, a presentation by HomeFront Community Education Coordinator Lauren Fine, as well as prizes and refreshments.

Starks said he was glad to be at PPPL for the "best one-day campaign." He praised staff by adding, "Not only do you run it in one day, but you give generously."

Starks said 2005 has been an incredible year, noting the disasters that occurred around the world. "When you gave last year ...you helped us be prepared for the tragedy and devastation that came this year," he said.

Fine discussed how United Way funds assist Home-Front in its mission to help homeless families. Home-Front is a non-profit organization based in Lawrenceville that works to break the cycle of poverty and end homelessness. It serves thousands of Mercer County families, providing case management for clients seeking housing, offering an on-site food pantry, maintaining transitional and permanent housing facilities, and running programs for homeless children.

PPPL 2005 United Way Campaign Chairperson Rose Fuchs-Smith reported that PPPL continues it tradition of support for the United Way. "We reached \$31,561 as of December 19, surpassing our goal by more than \$1,000, and the checks continue to come in. So far, 37 percent of the staff have participated this year. Once again, staff have shown their generosity," she said.

While the meeting and campaign occurred on December 1, donations are still being accepted. Please send your contributions to Fuchs-Smith at MS-38. Those who have contributed up until December 22 will be eligible for the Grand Prize drawing for a \$200 American Express gift card. The drawing will take place at the PPPL Holiday Party on December 23. Please be generous.



oto by John Bennevic





Above left, at PPPL's United Way meeting are members of the Lab's and Princeton University's United Way Committees with United Way representatives, the guest speaker, and the PPPL Director. From left are PPPL's Patti Wieser and Susan Murphy-LaMarche, HomeFront Community Education Coordinator Lauren Fine, United Way's Jesse Starks, PPPL's John Bennevich, Princeton University United Way Campaign Chair Bob Pearson, PPPL's Tom McGeachen, Joanne Bianco, Sonja Patterson and Rosemarie Fuchs-Smith, Princeton University United Way Campaign Coordinator Pamela Johnson, United Way's Thomas Kim, and PPPL Director Rob Goldston. Top, right, PPPL's Russ Feder checks out the refreshments. Bottom right, PPPL 2005 United Way Campaign Chairperson Rosemarie Fuchs-Smith introduces the speakers at the United Way meeting.

Hahm Receives Kaul Prize and Reiersen is Named **PPPL Distinguished Engineering Fellow**

 $PPPL honored Taik Soo Hahm and Wayne \textit{Reiersen during a ceremony at the Laboratory following Director \textit{Rob Goldston's}}$ State-of-the-Lab address on November 22. Hahm, a physicist, received the Kaul Prize for Excellence in Plasma Physics Research and Technology Development. Reiersen, an engineer, is this year's PPPL Distinguished Engineering Fellow.

Hahm

Hahm was cited for his analysis of plasma simulations and measurements in fusion energy research. Plasma is a hot, gaseous state of matter used as the fuel to produce fusion energy—the power source of the sun and the stars.

Director Goldston said, "Taik Soo has been a world leader bringing analytic theory to bear on understanding both massive computational and detailed experimental



Taik Soo Hahm

results in the area of fusion plasma turbulence."

Hahm is the Head of the Transport and Turbulence Science Focus Group at PPPL and the group leader in analytic theory at the Laboratory's Theory Department. He joined PPPL's research staff in 1986 after receiving a B.S. in physics from the Seoul National University in Korea in 1980 and a Ph.D. in Astrophysical Sciences from Princeton University in 1984, and working for two years as a post-doctoral research fellow at the University of Texas at Austin. He was elected a Fellow of American Physical Society in 1995.

Princeton University awards the Kaul Prize to recognize a recent outstanding technical achievement in plasma physics or technology development by a full-time, regular employee of PPPL. It includes a cash award of \$2,000 for each individual. Nominations for the award are submitted to the Prize Selection Committee, which includes the Princeton University Provost, the Chair of the Princeton University Research Board, the PPPL Director, PPPL Deputy Director, and PPPL Chief Scientist. This is the eighth time the prize has been given.

Former PPPL Director Ronald C. Davidson endowed the Kaul Prize by giving to Princeton University a portion of the gift he received as the 1993 recipient of the Award for Excellence in Science, Education, and Physics from the Kaul Foundation.

Congratulations, Wayne and Taik Soo!

Reiersen

Reiersen was cited for his technical and leadership contributions to many machine design studies and most notably the National Compact Stellarator Experiment (NCSX). NCSX is a fusion experiment being built at PPPL.

"Wayne brings a high level of discipline and careful thinking to our projects, and the success of NCSX construction has depended greatly on his insights," said Director Goldston.

the University of Tennessee in 1984.



Wavne Reiersen

Reiersen, who has 20 years of experience in the design of magnetic fusion energy systems, is the Engineering Manager for the National Compact Stellarator Project and Branch Head for Engineering Analysis at PPPL. Prior to joining the Laboratory in 1984, he worked at Grumman Aerospace Corporation. Reiersen received a bachelor's degree in mechanical engineering from Cornell University in 1976 and a master's degree in nuclear engineering from

The Distinguished Research and Engineering Fellow Program, funded by the U.S. Department of Energy, was created to recognize members of the Laboratory's research staff, as well as engineering and scientific staff, for their accomplishments. Fellows receive one-time gifts of \$5,000 and qualify for priority in regard to their research and engineering programs.



New C-site Diesel Generator Commissioned



Above is part of the team responsible for the design, installation and commissioning of the new C-site standby diesel generator. The project was commissioned on November 19, slightly more than a year after the original generator failed. The new generator has 250 percent more capacity than the old one and is capable of providing back-up power to much of C-site when the utility power fails. The team was made up of both PPPL staff and contractors. From left are (front row) PPPL'ers Manny Fernandez, Freddie Simmonds, Red Delany, Art Wise, and Dick DeBonis, and Scott Testing's Larry Ragan and Corey Kilpatrick; (back row) K&H Sheet Metal's Richard Holcombe and Doug Kaczor, and PPPL's John Lacenere, Bob Clark, Charlie Sands, Joe Bartzak, and Ray Camp. •

Hotline

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PPPL Celebrates America Recycles Day



The Laboratory celebrated America Recycles Day on November 15 with a lunchtime information event in the LSB Lobby. Organized by PPPL's Margaret Kevin-King and Thomas McGeachen, it included displays and promotional items from the Federal Energy Management Program, Marcal, the Mercer County Improvement Authority, the New Jersey Department of Environmental Protection, Waste Management, Inc., and PPPL.

"We had a good turnout — about 10 percent of the Lab's staff stopped by for information about recycling and buying recycled products," said McGeachen. This was the eighth consecutive year the Lab marked the day.

The PPPL display included information about the Laboratory's recycling program and its efforts to buy recycled products. Kevin-King said, "In Fiscal Year 2005, the office trash recycling rate at PPPL was 53 percent, which is 2 percent more than it was the year before. The construction trash recycling rate was only 12 percent, so we have to improve in this area."

There was also a drawing for a box of Marcal paper products, which was won by Chris Minervini.

Said Kevin-King, "Thanks to all PPPL staff for their continual support and efforts in recyling and buying recycled content products!"





At left, PPPL'ers stop by the Lab's recycling display during the America Recycles Day event in the LSB Lobby. Above, Madeline McMullen places a raffle ticket in the drawing container.



PPPL's Chris Minervini wins the box of Marcal paper products during the Lab's America Recycles Day observance.

New faces at PPPL

New Hires — PPPL welcomes the following people, who have come on board during Fiscal Year 2005.



Kim Mastromarino Human Resources



Mark Karlik Engineering



Olga Tishinin Budget Office



Linda Moskovitz ESU



Colin Phelps Quality Control



Kathleen Lukazik Accounting



Richard Snyder ESU



Andrea Fiore U.S. ITER Office



Magdalena Liebnitz
Accounting



Scott Loh ESU



Shannon Belloni Theory



Shanda Hamilton Materiel Control



Ronald Jakober Engineering



Ewa Ciesla Accounting



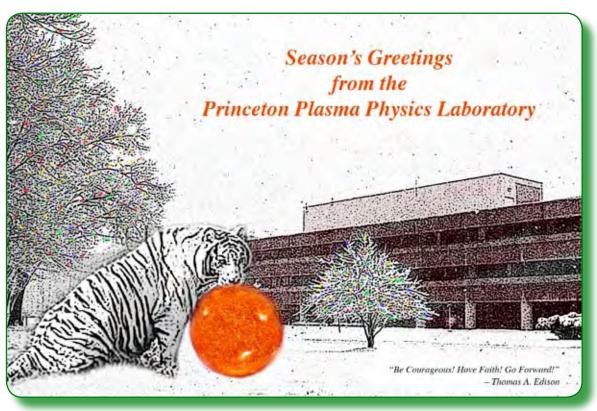
Ahmed Alkhateeb



Kimberly Buturla Accounting



PPPL's James Morgan and Jean Wernock teamed up to transform the Lobby into "Home for the Holidays at PPPL". Morgan developed the theme, designed and built the faux fireplace. Wernock, with assistance from Sue Hill and Patti Wieser, helped with the finishing touches.



PRINCETON PLASMA PHYSICS LABORATORY

Hollay Parity Friday, December 23

12:00 Noon - LSB Lobby and Cafeteria

Free Lunch

PORK LOIN CARVING STATION SAUSAGE & PEPPERS
BAKED ZITI MEATBALLS RED ROASTED POTATOES
DINNER ROLLS CHICKEN CAESAR SALAD
PASTA SALAD VEGETABLES TOSSED SALAD
SODA WATER COFFEE HOMEMADE DESSERTS

OPEN TO EVERYONE WORKING AT THE LAB!



WORLD FAMOUS PPPL SKIT

BEGINS AT 12:45 P.M. IN THE AUDITORIUM

UNITED WAY GRAND PRIZE DRAWING

(YOU DO NOT NEED TO BE PRESENT TO WIN)

GIFT RAFFLE

AFTER THE SKIT IN AUDITORIUM (YOU MUST BE PRESENT TO WIN)

