

HOTLINE

The Princeton Plasma Physics Laboratory is a United States Department of Energy Facility

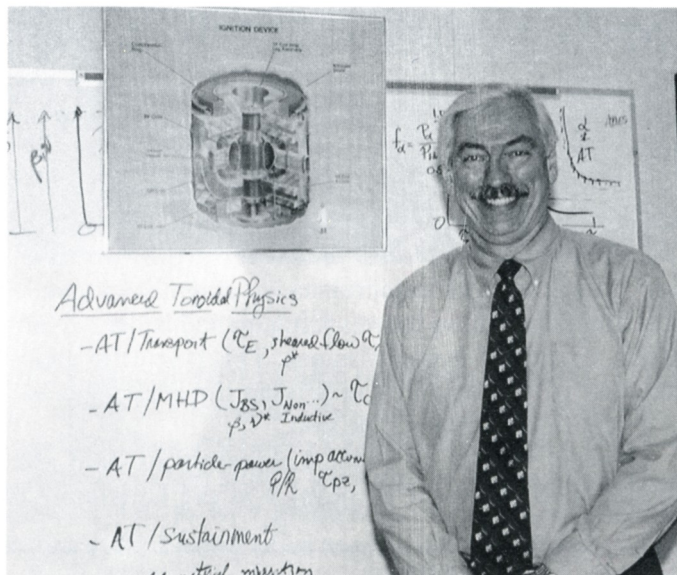
Fusion Power Associates Honors Meade

In recognition of his "outstanding leadership qualities in accelerating the development of fusion," the Fusion Power Associates (FPA) Board of Directors is honoring Dale Meade, Head of Advanced Reactor Concepts at PPPL.

Meade, former Deputy Director at the Laboratory, is the recipient of the group's 1999 Leadership Award. Meade's citation states, "Your early leadership of the TFTR [Tokamak Fusion Test Reactor] program and continuing contributions to the field of energy-producing plasmas and fusion applications have challenged the community to move forward expeditiously toward practical fusion power."

TFTR, which operated at PPPL from 1982 to 1997, made many contributions to fusion science and set world records in plasma temperature and fusion power production.

PPPL Director Rob Goldston said of Meade, "Dale has shown outstanding persistence, energy, and inventiveness throughout his scientific career, all key qualities for the success of fusion. We are very pleased that his



Dale Meade

contributions have been recognized by Fusion Power Associates."

Continued on page 2

Taylor Receives Presidential Achievement Award

By Patti Wieser

When the phone rings in the L-wing for PPPL technician James Taylor, it usually signals the start of a new task. "You never know what's next," said Taylor, a 32-year veteran of the Laboratory.

It could be a problem with the experimental area water system for the entire L-wing. Or it might require special knowledge about



James Taylor works on the Current Drive Experiment-Up-grade project.

machining or electrical installation or vacuum technology.

According to his supervisors, it is Taylor's unique blend of expertise and dedication, as well as his breadth of abilities in tackling such problems, that led to him being chosen as one of four Princeton University 1998 Presidential Achievement Award recipients. The honorees were cited during a ceremony at Princeton's Rockefeller College on January 27.

The award, part of Princeton's Staff Recognition Program, was established in 1997 and is designed to recognize members of the support and administrative staff with ten or more years of service who, through their

Continued on page 3

Meade

Continued from page 1

FPA President Stephen O. Dean presented the award to Meade on January 25 during the FPA's annual meeting in Marina del Rey, California. Meade and B. Grant Logan of the Lawrence Livermore National Laboratory in Livermore, California, are the two recipients this year.

During the awards presentation, Dean told the honorees, "In selecting you, the FPA Board of Directors recognizes your many past contributions and continued dedication to finding viable pathways to practical applications of fusion. Congratulations both!"

Meade said, "I am honored to receive the FPA Leadership Award. Progress in fusion is always the result of the efforts and dedication of many — a team effort. I would like to thank my colleagues for their support and encouragement."

Meade noted the "amazing things" that have been accomplished in magnetic fusion research. "Controlled fusion plasmas have been produced in the laboratory, which together with comprehensive diagnostics and detailed modeling, have led to a fundamental understanding of the science of fusion plasmas. This scientific understanding will be essential in solving the challenges of a practical fusion system," he said.

Meade, who came to the Laboratory in 1973 after serving as a professor of physics at the University of

Wisconsin, was Deputy Director of PPPL from 1991 to 1997 and Head of the TFTR Project from 1986 until 1991. He presently heads the Laboratory's program in Advanced Reactor Concepts.

"Dale has shown outstanding persistence, energy, and inventiveness throughout his scientific career, all key qualities for the success of fusion."

—Rob Goldston

He is the second person from PPPL to receive the FPA's Leadership Award since it was created in 1980. Former Director Harold Furth received the award in 1982. The same award also went to former PPPL Director Ronald C. Davidson in 1986, while he was at the Massachusetts Institute of Technology.

Meade received a bachelor's degree in electrical engineering in 1961, a master's in physics in 1962, and a Ph.D. in physics in 1965, all from the University of Wisconsin. He is a Fellow of the American Physical Society. Other awards he has received are the Department of Energy Distinguished Associate Award in 1994 and the University of Wisconsin-Madison College of Engineering Distinguished Service Citation in 1990. ●

PPPL Boasts Outstanding Safety Record

Safety first! That's a favorite motto at the Lab and — according to last year's statistics — one heeded by staff.

Environment, Safety, and Health Head Jerry Levine called the Lab's safety record for 1998 "outstanding."

Only One Case

Last year, there was only one case of an employee who was out of work for one or more days after being injured on the job.

"This outstanding safety performance is the result of everyone's efforts and care on the job. I want to thank the whole staff," said Levine.

The Lab's one lost work day case in 1998 occurred when an employee injured his right knee and hip after missing the last step of a ladder on his way down from modifying the electrical systems on the National Spherical Torus Experiment (NSTX). As a result of the accident, the staff member was out for three days.

"It's incredible that there was only one lost work day case last year, especially when you consider the work being done here," said Levine, noting the building of NSTX.

The Lab also had just seven recordable injuries in 1998. Recordable injuries are those in which an employee would have lost work time, restricted work time, or medical treatment. An injury could be as minor as a cut finger requiring stitches.

Levine keeps a log of the recordable injuries and illnesses that occur at the Lab. Each incident is investigated.

He credited the Lab's staff for the successful safety record. "I think the biggest factor is that all of our workers are experienced people. They care about safety and they work safely," Levine said. In addition, the good morale brought on by constructing a new machine contributes to the success rate. "Everyone works together and watches out for each other," he said. ●



Taylor

Continued from page 1

dedication and excellent work, have made a significant contribution to the success of their department and to the university. Four awards are made annually to staff. Nominations are made by managers and their vice presidents or deans. Recipients receive a certificate, a cash award of \$2,000, and have their names inscribed on a plaque displayed in the Office of Human Resources on main campus. Three other nominees were from PPPL this year, including Les Gereg, Larry Sutton, and Joe Winston.

Invaluable Contributor

Said PPPL Engineering and Technical Infrastructure Head Michael Williams, "Jim's broad knowledge of Laboratory technologies and wide-ranging technical expertise have made him an invaluable contributor to all of the Laboratory's experimental programs."

Added Experimental Systems Branch Head Bill Blanchard, "Jim has been frequently sought out to assist in both the troubleshooting and resolution of various problems that might arise such as vacuum or grounding problems ...As impressive as Jim's technical achievements have been, his professional outlook and complete willingness to help wherever and whenever he is needed are equally as impressive, if not more so."

Others described Taylor as "upbeat and pleasant to work with," "a natural leader of the technical staff," and one who possesses the ability to "boost morale."

Hired by the Laboratory in 1967 as an electronics technician, Taylor was asked if he would temporarily work as a technician on experiments since there were no openings in the electronics shop. Thirty-two years later — interrupted only by a military stint three decades ago — he remains working on experimental projects. "Any day now I should get this call that there's an opening in the electronics shops," mused Taylor.

Whatever the task, it's what makes each workday unique for Taylor. "There isn't a typical day," he said.

Presently, Taylor is involved in the Current Drive Experiment-Upgrade (CDX-U) project. After a long hiatus, CDX-U began operating again in January using the power supplies that were originally purchased for the Princeton Beta Experiment-Modification. "It's been a long process getting the cables pulled from where the power supplies are at the ESAT Building and working out the logic for the supplies," said Taylor, who built the machine and is familiar with every piece on it. CDX-U is the latest in a series of devices Taylor has worked on since he came to the Lab in 1967. His first was the Etude stellarator at B-site. Following military service, he came to the L-wing — where he has been ever since — to serve



Princeton University Vice President for Public Affairs Bob Durkee (right) presents the Presidential Award to James Taylor.

as the technician on the Large Ion Larmor Orbit (LILO), the L-3 and L-4 linear devices, the Advanced Concepts Torus I (ACT-I), and finally CDX, which is now CDX-U.

Taylor said he enjoys working on the small experiments, as well as with graduate students. "The smaller devices in the L-wing offer hands-on learning for graduate students. This is not just a place for experimentation, but also where the students can get their hands dirty," he said.

He added, "The students are fun to work with because each one is different. They are from all walks of life and areas of the world. Each of them has a unique way of going about getting their results."

One former graduate student, Masayuki Ono, who is now the Project Director for the National Spherical Torus Experiment (NSTX), recalled the help he received from Taylor 25 years ago. "What makes Jim very special, aside from his outstanding technical skill, is his caring and understanding attitude toward everyone, including the students. I, for one, was helped by Jim in many ways during my thesis years ...Jim has performed a great service in training the scientific leaders of tomorrow in both technical and human aspects," said Ono.

Likening PPPL to a family, Taylor insisted the Presidential Achievement Award honors the Laboratory more than the individual. "If you need help, you can always go to the person across the hall. It's always been a family atmosphere here and I really feel that PPPL received the award," he said. ●

How to Encourage Action on Diversity

People often ask for concrete suggestions for managing diversity. At PPPL, each individual is encouraged to be a “Change Agent” for diversity. This concept has been reinforced during seminars about diversity and in the recent Diversity Awareness Training given by Enrico Carreira. However, there are things that can be done organizationally to strategically have an impact on our diversity efforts. PPPL has been recognized as an organization that has demonstrated our commitment to developing sound and notable programs. Together we can continue to improve and build on this foundation.

The following is from “101 Actions You Can Take to Value and Manage Diversity,” a booklet by Julie O’Mara and the One America in the 21st Century, the Advisory Board’s Report to President Clinton.

For All Employees:

Identify and be aware of your biases, assumptions, and prejudices. Consider how they may affect your attitude at work. Recognize that prejudice is often subtle and it is natural to make assumptions or to have biases toward others. [Remember Rico’s “Personal Values Exercise.”] When you know you’ll be in a challenging situation, plan to question your biases and perhaps react differently than your feelings might dictate. Make a point to raise your concerns about comments or actions that appear prejudicial, even if you are not the targets of these actions. Learn

more about heterosexism, homophobia, and issues related to gays, lesbians, and bisexuals in the workplace. [Locally, contact the ALLY Project sponsored by the P-QUE (Princeton Queer University Employees). The purpose of the project is to foster a supportive and affirming atmosphere for lesbian, gay, and bisexual people by establishing a network of faculty and staff members who are visible allies of the community. The Ally Project sponsors a training session. Please contact Adam Rockman at rock@princeton.edu.]

For Managers and Supervisors:

Model the diversity behaviors advocated by your organization. Don’t say one thing publicly and another informally. [For example, do not publicly support PPPL’s policy against sexual harassment and then tell sexist jokes — even if only to a select few personal friends at work.]

Set objectives and performance standards, but don’t dictate ways to achieve them. People with various problem-solving styles will enrich the results. According to diversity specialist Karen Bearden, Ph.D., it is important for leadership to set a vision for the organization and how diversity fits in, and articulate it to the rest of the organization. Education of senior management and training the entire workforce also figure highly in making diversity work, according to Dr. Bearden. ●

— *Provided by PPPL Diversity Officer Pamela Lucas*

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Editor/Writer: Patti Wieser
Photography: Elle Starkman
Graphic Artist: Greg Czechowicz
Layout: Patti Wieser

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BBC Notes Lab Website

The Internet Plasma Physics Educational eXperience (IPPEX) website has been chosen for inclusion in the BBC Education Web Guide. IPPEX is PPPL’s interactive, educational website that allows users to operate their own fusion experiments and analyze data from real experiments conducted by physicists. The internet address for IPPEX is: <http://ippex.pppl.gov/ippex/>.

The Education Web Guide team noted the quality and educational content of the IPPEX site and have placed a short review of it in the guide’s searchable database, which can be accessed by Internet users everywhere at <http://www.bbc.co.uk/education/webguide>. The guide offers the newest and best websites for learning at home, at school, and at college. The sites included have been hand-picked by a team of subject specialists, and scrutinised for educational rigor by experts at BBC Education. The guide provides a one-stop shop for the best educational resources on the internet and is the focal point for all of the BBC’s educational resources. ●