

# Hotline

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

## Laboratory Names Distinguished Research Fellows for 1997

In recognition of their extraordinary creativity and accomplishment, a physicist and an engineer at the Laboratory have been named PPPL Distinguished Fellows for 1997. The Distinguished Research Fellow is Masaaki Yamada and the Distinguished Engineering Fellow is Peter Bonanos. The recipients were honored during a formal ceremony on May 12 at the Lab.

The PPPL Distinguished Research and Distinguished Engineering Fellow Programs, which are funded by the U.S. Department of Energy (DOE), were established to recognize individual excellence at the Laboratory. The Distinguished Research Fellow Program was created in 1993 to recognize members of the PPPL research staff who have achieved extraordinary records of creativity and accomplishments in research over an extended period of time. The Distinguished Engineering Fellow Program was created in 1995 to honor members of the engineering and scientific staff who have achieved outstanding records of innovations and accomplishment in engineering over an extended period of time. Fellows receive one-time gifts of \$5,000 and qualify for priority in regard to their research and engineering programs.

### Yamada

Yamada, a Principal Research Physicist and Head of the Magnetic Reconnection Experiment, was honored "for pioneering investigations of the basic physics of beam and current driven instabilities, spearheading the spheromak experimental research program, and the exploration of fundamental magnetic reconnection physics through innovative experimental approaches including the merging of two spheromaks with co- and counter-helicities."



PPPL Interim Director John Schmidt congratulates Masaaki Yamada at left and Peter Bonanos above.

Yamada received a bachelor's degree in applied physics in 1966 and a master's in nuclear engineering in 1968, both from the University of Tokyo in Japan, and a Ph.D. in physics from the University of Illinois in 1973 before joining PPPL's research staff the same year.

During the presentation ceremony, PPPL Interim Director John Schmidt said, "Masaaki has made significant contributions to plasma physics over an exceedingly broad range of ideas. He has been productive in large tokamak research, alternative concepts, and laboratory-based astrophysics. Few persons have contributed over such a wide array of topics, and Masaaki has succeeded in

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bringing innovation to each area.” Yamada noted, “It is quite an honor to receive this prize at a center of excellence like PPPL, among my colleagues who are world experts in plasma physics and fusion science.”

### Bonanos

Bonanos, a Principal Engineer, was cited “for many contributions to the development of fusion, with particular emphasis on magnets. Mr. Bonanos’ creative and meticulous design and engineering of experimental fusion devices, magnets for fusion and other scientific applications, ICRF (Ion Cyclotron Range of Frequencies) heating antennas, and studies of reactor concepts have contributed much to advancing the state-of-the-art in these critical technologies.”

While presenting the citation to Bonanos, Schmidt said, “Peter has made outstanding contributions to magnet technology throughout his career, as well as to the

design of ICRF antennae for the Tokamak Fusion Test Reactor. He holds three patents and has participated in four other patent disclosures.”

Bonanos received a bachelor’s degree in mechanical engineering from Cooper Union School of Engineering in 1963 before joining PPPL’s engineering and scientific staff the same year.

Seven Research and two Engineering Fellows have been named at the Laboratory since the fellowships were established. The Research Fellows are Chio Zong Cheng, Russell Hulse, Masayuki Ono, James Strachan, Roscoe White, Michael Zarnstorff, and Stewart Zweben and the Engineering Fellows are Philip Heitzenroeder and Robert Woolley. Fellows are expected to devote most of their time to active research and engineering activities. They are required to describe their work during regularly scheduled colloquia. The Research and Engineering Fellows form the Distinguished Research Fellow Council and the Distinguished Engineering Fellow Council, respectively, which advise the Director on the scientific and engineering direction of the Laboratory. ●

## Lab Gains Support of Area Officials During Briefing

**T**en state, county, and local officials visited the Lab for a “Breakfast Briefing” on April 23. They were among 27 area officials who urged the funding of PPPL and fusion sciences research in letters to the chairmen of the House and Senate Appropriations Subcommittees on Energy and Water Development.

One letter, sponsored by Plainsboro Mayor Peter Cantu, was signed by 25 of the officials. It was presented at the briefing by Plainsboro Deputy Mayor Tom Hall.

### Profound Benefits

The letter stated, in part, “As state, county, and municipal officials in central New Jersey, we are alarmed by the severe decline of funding for the Princeton Plasma Physics Laboratory during the past two years. These reductions mirror the devastating cuts to the fusion energy program nationally. Our concern arises from an awareness of the economic and educational benefits PPPL brings to our communities and the profound benefits fusion energy will have for humanity.” It concluded by asking that the U.S. fusion energy science program receive, at the very least, full funding at the level of \$225 million requested for Fiscal Year 1998.

The briefing also included a discussion about PPPL’s mission, accomplishments, and future by PPPL Interim

Director John Schmidt, Deputy Director Dale Male, and Assistant Director Rush Holt.

Representatives from the New Jersey State Senate and Assembly, Mercer and Middlesex Counties, Hopewell Borough, Lawrence Township, Plainsboro Township, Princeton Borough and Township, and West Windsor Township signed the letters. ●



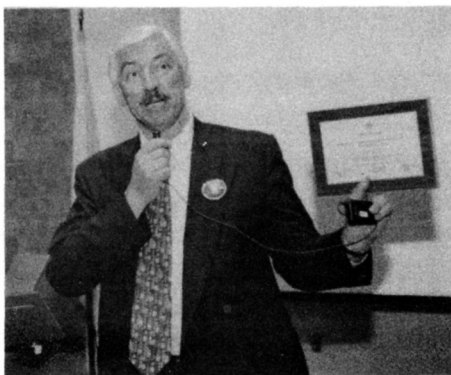
*Plainsboro Deputy Mayor Tom Hall (standing) presents a letter of support for fusion to area officials at PPPL’s Breakfast Briefing. The letter went to the chairmen of the House and Senate Appropriations Subcommittees on Energy and Water Development.*

# A Day of Festivities Marks TFTR Accomplishments

*On April 28, the staff commemorated TFTR's years of success during the TFTR Celebration, which included tours and opportunities to be photographed in the Test Cell, a series of talks in the MBG Auditorium, and a reception in the Lobby. Experiments on the flagship experimental fusion device had concluded on April 4.*



**Cake and ice-cream are a hit!**



**PPPL Deputy Director Dale Meade discusses the achievements on TFTR.**



**N. Anne Davies, Associate Director for the DOE's Office of Fusion Energy Sciences, poses with former PPPL Director Harold Furth in the Test Cell. Davies and Furth were among 239 individuals who took advantage of a photo session at the Test Cell that was open to all staff. A total of 483 pictures were taken, including a variety of group and individual shots.**



**After the commemoration in the Auditorium, staff enjoyed cake and ice-cream in the Lobby. From left are Ceil O'Brien, Charles Kircher, Bob Longmuir, Susan Murphy-LaMarche, and Sally Connell.**



**The troops line up for refreshments.**

Photos by Dietmar Krause and Denise Applewhite





*The recipients, from left, are (front row) Sue Pontani, John Dong, Henry Carnevale, Glenn Pearson, Stewart Zweben, Dick Majeski, Alex Ilic, Mel Gensamer, Bill Jackson, Bobbie Forcier, Jeanne Salerno, and John DeLooper; second row, Harry Towner, Irving Zatz, Bill Blanchard, Tom Kozub, Larry Dudek, Jim Kamperschroer, Keith Rule, John Luckie, Richard Wieland, Kevin McGuire, Stefano Bernabei, Bill Davis, Ben LeBlanc, Patti Wieser, Phil Heitzenroeder, Bob Kaita, Hantao Ji, and Stephen Paul; Back row, Steve Elwood, Scott Larson, Steve Williams, Charles Ancher, Al von Halle, Skip Schoen, Larry Sutton, Tom McGeachen, and Susan Murphy-LaMarche. The complete list of recipients is in the story.*

## Laboratory Staff Honors Co-workers

### Employee Recognition Awards Presented to Fellow Workers for Achievements

In April, PPPL staffers lauded 36 fellow employees and 32 tour guides for their "personal qualities and professional achievements" during the Lab's second annual Employee Recognition Awards Ceremony.

#### 1997 Recipients

The 1997 recipients are John Bavlish, William Blanchard, Raymond Camp, Verne Clift, Mark Cropper, John Dong, Stephen Elwood, Bobbie Forcier, Nero Fortune, Steven Green, Carol Hirschman, William Jackson, Stephen Kemp, Scott Larson, Donald Long, John Luckie, Richard Majeski, Kevin McGuire, Susan Murphy-LaMarche, Glenn Pearson, Erik Perry, Susan Pontani, Keith Rule, Jeanne Salerno, Stanford "Skip" Schoen, Carl Scimeca, Charles Sims, Larry Sutton, Richard "Pete" Szaro, Harry Towner, Timothy Vavricka, Dick Wieland, Patti Wieser, Stephen Williams, Joe Winston, and Nazia Zakir.

In addition, all of the tour guides — who were responsible for hosting more than 3,000 visitors to the Laboratory during the past year — were honored. They are Charles Ancher, George Ascione, Stefano Bernabei, Bill Blanchard, Norton Bretz, Ray Camp, Henry Carnevale, Dave Ciotti, Bill Davis, John DeLooper, Larry Dudek, Mel Gensamer, Charlie Gentile, Phil

Heitzenroeder, Alex Ilic, Hantao Ji, Bob Kaita, Jim Kamperschroer, Ben LeBlanc, Tom McGeachen, Mark Oldaker, Steve Paul, Steve Raftopoulos, Ed Rogers, Greg Schmidt, Steve Scott, Bill Slavin, Al von Halle, Mike Williams, Ken Young, Irving Zatz, and Stewart Zweben.

PPPL Interim Director John Schmidt said, "It is important that at a time when we are faced with reduced funding we are able to look back on a period of great scientific productivity. All of the employees that are being recognized this year played a special role in making PPPL a scientific leader."

The recipients of the annual awards were honored at a luncheon at the Lab and later at an



*Employee Recognition Awards Review Committee member Barbara Sobel (right) presents an Employee Recognition Award plaque to Sue Pontani. Ellen Riscoe, another member of the review committee, is to the left of Sobel. Behind Pontani is Greg Czechowicz, who attended the presentation.*





*The honorees enjoy a pizza lunch at the Lab. From left are tour guides Tom McGeachen, Bill Davis, Mel Gensamer, and Jim Kamperschroer.*

awards ceremony in the LOB Lobby. Schmidt opened the ceremony with congratulatory remarks and Employee Recognition Awards Review Committee member Barbara Sobel presented plaques to the recipients. The ceremony was open to all PPPL staff.

During the presentation, Sobel said, "I feel like we are a family here at PPPL, and I was especially struck by the fact that during these difficult times, people made the effort to nominate their fellow employees. It shows just how seriously people take this award."

The awards were developed last year by the Director's Advisory Committee on Women and the Quality Improvement and Renewal Committee to recognize those employees who have "significantly contributed to a productive and harmonious work environment." Through the program, several employees are cited annually. Those recognized are selected from nominations submitted by other employees. All full-time staff at all levels are eligible for nomination.

The 1997 selection committee included Jim Graham, Hyeon Park, Ellen Riscoe, and Barbara Sobel. ●



*Enjoying the lunch are, from left, recipients Susan Murphy LaMarche, Scott Larson, Al von Halle, and John DeLooper.*

## **Congratulations to the 1997 Employee Recognition Award Recipients!**

### **1997-1998 Holiday Schedule**

For Administrative and Support Staffs, Professional Library, Research and Technical Staff members:

<b>Independence Day</b>	<b>July 4</b>	<b>Friday</b>
<b>Labor Day</b>	<b>September 1</b>	<b>Monday</b>
<b>Thanksgiving</b>	<b>November 27</b>	<b>Thursday</b>
	<b>November 28</b>	<b>Friday</b>
<b>Christmas</b>	<b>December 24</b>	<b>Wednesday</b>
	<b>December 25</b>	<b>Thursday</b>
	<b>December 26</b>	<b>Friday</b>
<b>New Year's</b>	<b>January 1</b>	<b>Thursday</b>
<b>Memorial Day</b>	<b>May 25</b>	<b>Monday</b>
<b>Optional Holidays</b>		<b>Two additional</b>

Optional holidays may be used at the staff member's discretion and with the approval of the supervisor for religious holidays and any other personal reason.

Alternate holiday arrangements may be made by departments and offices such as the Library and Dining Services where work schedules or union contracts dictate other holiday schedules.

# PPPL Engineering Head Williams Named “Executive of the Year” by Professional Secretaries

In recognition of his strong leadership skills and “open door” policy, PPPL Engineering and Technology Development Head Michael Williams was recently named “Executive of the Year” by the Mercer Chapter of Professional Secretaries International (PSI).

Williams received the award at the group’s luncheon on April 21. He had been nominated by his secretary, Mary Ann Brown, who said he “sets an example for all.”

## Initiated Book of Standards

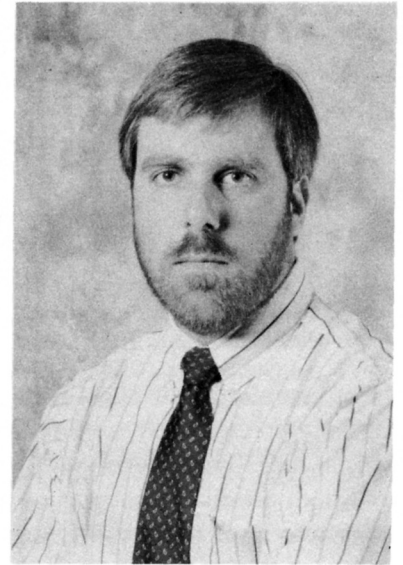
“By the nature of this office, consistent high standards and professionalism are requirements. To this end, my boss initiated a book of standards. These guidelines are now being followed by all employees,” said Brown, who has worked for Williams for five years. “In addition, he responds to educational opportunities not only for me, but for all employees under his direction.”

Brown also noted that Williams was “instrumental in helping our Laboratory achieve a milestone that makes us ‘the world leader’ in our field.” Williams, who became Head of the Engineering Department in 1992, was also Deputy Project Head of the Tokamak Fusion Test Reactor (TFTR) Project during the Laboratory’s record-breaking experiments on TFTR. In December, 1993, TFTR produced 6.2 million watts of fusion power, followed by 9.3

million watts in May, 1994, and 10.7 million watts in November, 1994.

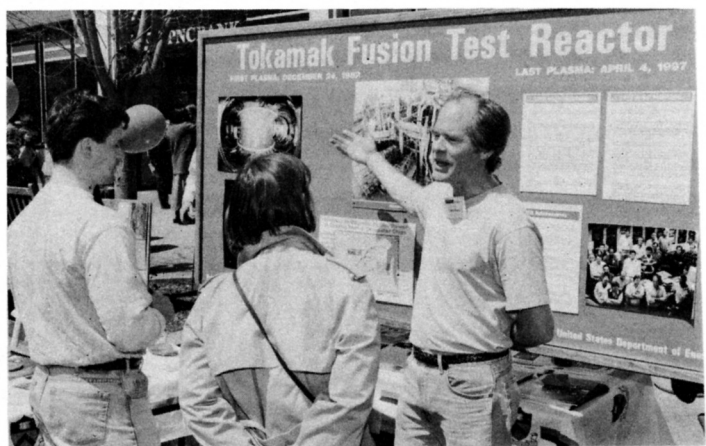
Williams came to PPPL in 1976 after graduating magna cum laude from Rutgers University with a bachelor’s degree in electrical engineering. In 1993, he received the Fusion Technology Award from the Institute of Electrical and Electronic Engineers (IEEE).

Upon receiving the PSI award, Williams said, “It’s an honor to be here and receive this award from the Professional Secretaries International. In doing so, I would like to recognize Mary Ann and all of the office professionals at the Princeton Plasma Physics Laboratory who have contributed enormously to the Laboratory’s success.” ●



Michael Williams

## Fusion Booth is Big Draw at CommUniversity



The Lab’s exhibit at CommUniversity in April was a hit among attendees. At left, PPPL’s Carol Phillips answers questions while at top PPPL physicist Bob Budny discusses TFTR. CommUniversity is an annual springtime celebration joining Princeton University with the community of Princeton.

## Nobel Laureate Talk Attracts PPPL'ers



More than 20 PPPL'ers, including the Lab's Interim, Deputy, and Assistant Directors, joined a crowd of 200 who attended a lecture given by Nobel Laureate Leon Lederman during the Federal Laboratory Consortium (FLC) Conference in New Jersey last April. Lederman and Rep. Rodney Frelinghuysen were members of a panel for the FLC opening ceremonies that preceded the talk, which focused on science and science education. At right, PPPL Interim Director John Schmidt (right) talks to Rep. Frelinghuysen, a strong supporter of fusion research and PPPL. Above, Lederman chats with PPPL's Nobel Prize winner Russell Hulse (middle) and PPPL Assistant Director Rush Holt.



## PPPL Honors Poster Contest Winners

**T**welve youngsters from area schools were honored recently by PPPL for their submissions to the Laboratory's Pollution Prevention Poster Contest. The Laboratory exhibited the winning poster entries — which were among 575 submissions — and hosted other events for Pollution Prevention Awareness Day on April 24. The day was sponsored by PPPL's Facilities and Environmental Management Division, Director's Advisory Committee on Women, and Science Education Program.

Events included a tour of TFTR; lectures by U.S. Environmental Protection Agency representative Donna Rogers; informative displays by recycling-related vendors, groups, and government agencies; and the poster contest awards presentation. The first place prize for the Pollution Prevention Poster Contest went to Michael Last, a student at Christa McAuliffe Middle School in Jackson; second place went to Katie Gardner, of Grice Middle School in Trenton; and third place went to Lauren McGlown, of Christa McAuliffe Middle School. Honorable mention prizes were received by Kelly Capers, Nicole Farina, Nicole Lenyo, and Kelly Vallery, all of Grice Middle School; Samantha Savro, Kasey Ramirez, Kate Meyer, and Jason Pirigyi, all of Christa McAuliffe Middle School; and Chrissy Kulcsar, of Bowne-Munro Elementary School in East Brunswick. First prize was a \$400 gift certificate to Halter's Cycle and Fitness Shop in

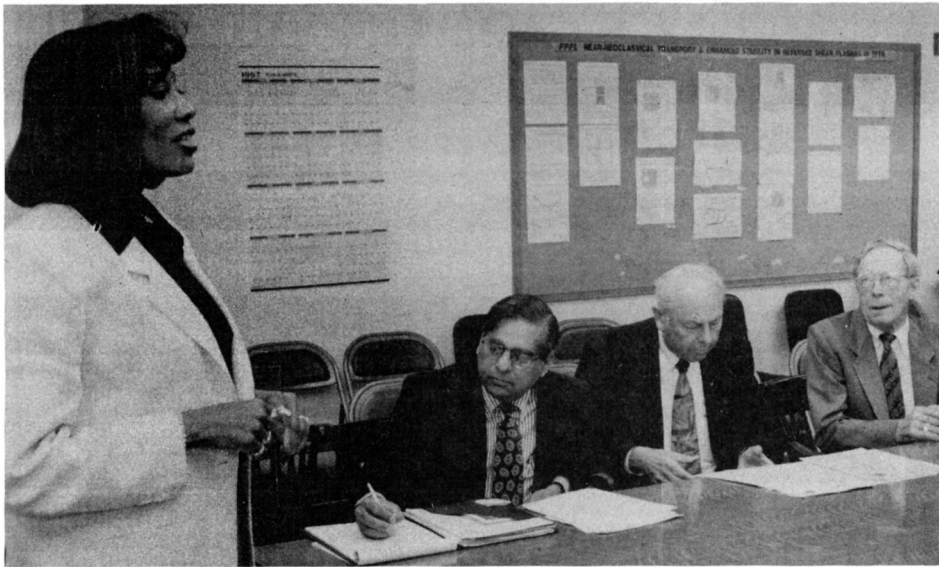
Monmouth Junction; second prize was an electronic organizer; and third prize was a \$50 gift certificate to an area store. The honorable mention awardees each received a \$10 gift certificate to Border's Books and Music in West Windsor. Contributions for the prizes came from Halter's, Border's, and an anonymous donor. ●



J.W. Anderson (left), Head of PPPL's Facilities and Environmental Management Division, congratulates Pollution Prevention Poster Contest first place winner Michael Last (middle) and second place winner Katie Gardner.



# Laboratory Receives Bronze Award for Small, Disadvantaged Business Participation



Above, PPPL Small Business Liaison and Senior Buyer Arlene White (left) discusses PPPL's achievements in "partnering" with small, disadvantaged, and women-owned businesses prior to the award presentation. Also pictured, from left, are Aimtek President Amar Kapur, Aimtek sales representative William F. Meyer, III, and U.S. Small Business Administration representative Andrew Zuber.

**P**PPPL received an award from Aimtek, Inc., on June 19, for the Lab's outreach efforts to small, disadvantaged businesses. Amar V. Kapur, President of Aimtek, Inc., a small, disadvantaged business in Auburn, Massachusetts, presented the company's "Bronze" Customer and Supplier Partnership Award to PPPL Deputy Director Dale Meade during an award ceremony at the Laboratory. PPPL was selected by Aimtek to receive the award because of the Laboratory's long-standing working relationship and outreach efforts to Aimtek and other small, disadvantaged businesses, and its past order volume. Aimtek has supplied PPPL with brazing materials, chemicals, and gases. ●

At right are PPPL Interim Director John Schmidt, PPPL's Arlene White, U.S. Small Business Administration representative Andrew Zuber, Aimtek President Amar Kapur, PPPL Deputy Director Dale Meade (holding the Bronze Award), PPPL Office of Resource Management Head Ed Winkler, and DOE Princeton Group contract specialist Robin Bauer.



## HOTLINE

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