



HOTLINE

25th Anniversary Special Issue

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

Marking 25 Years of PPPL Hotline

When we began publishing PPPL *Hotline* in December of 1979, we were simply looking for an efficient means to keep a rapidly growing Laboratory staff informed of the latest programmatic achievements and administrative issues of importance. Some 384 editions have since been published. Taken together these serve as an informal history of the last 25 years at PPPL. Flipping through the *Hotline* file to select photos for this anniversary edition was like reliving the past quarter century in fast-forward. Obviously, space does not allow an attempt to convey this experience to our readers. Nonetheless, we have selected some photos that we hope will appropriately mark the passage of time and capture a flavor of life at PPPL since 1979. We hope you enjoy them. — *INFORMATION SERVICES*



1979 — PPPL Director Mel Gottlieb and children from the Penrose School in Philadelphia stand before the full-size mock-up of the Lab's Poloidal Divertor Experiment (PDX), which was on loan to the Franklin Institute. The occasion was the dedication of the Mock-up at the Institute, which at the time housed a large fusion energy exhibit.



1981 — PPPL Associate Director for Research Paul Rutherford (left) describes the Princeton Large Torus (PLT) experiment to former President Jimmy Carter. Laboratory Director Harold Furth is at right. The former president visited PPPL for an hour-long tour as part of his Princeton visit in March.



1981 — Al Swain, coordinator of construction at PPPL, greets former astronaut Neil Armstrong during the latter's recent visit to the Laboratory. Armstrong interviewed Lyman Spitzer and former Laboratory Director Melvin Gottlieb as part of a fusion energy film by the Slaner Foundation.

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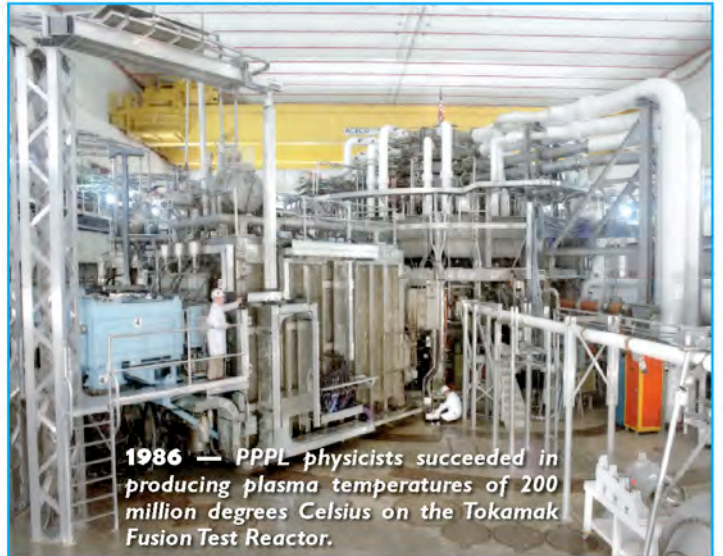
1982 — Celebrating the recent installation of the first TFTR segment module are (from left) PPPL Director Harold Furth, TFTR Program Head Don Grove, Associate Director and Head of Technology Paul Reardon, and Milt Johnson, Chief of the Engineering and Physics Branch of the Department of Energy's PFPO.



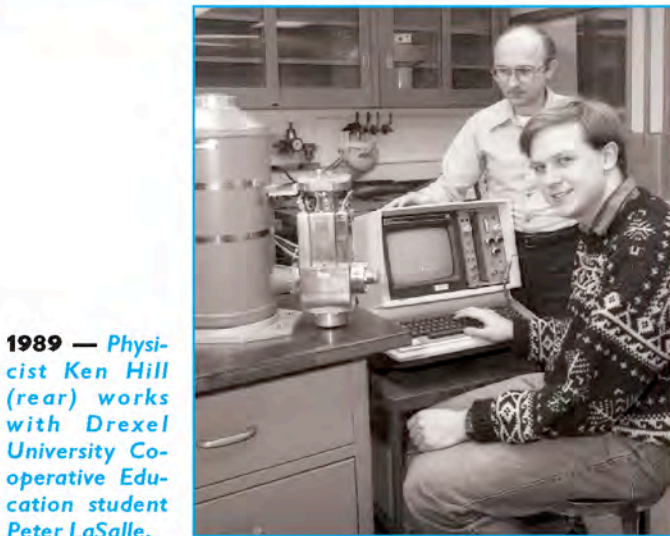
1984 — Gene Baker, Mounir Awad, Aleksandar Ilic, and Charlie Ancher (left to right) all had a hand in the "push" to get TFTR Motor Generator No.2 on line by August.



1983 — Staff cheer the creation of first plasma on TFTR on December 24, 1982. The successful start-up of the machine was the culmination of seven years of design, fabrication, and assembly efforts. The event made news around the world.



1986 — PPPL physicists succeeded in producing plasma temperatures of 200 million degrees Celsius on the Tokamak Fusion Test Reactor.



1989 — Physicist Ken Hill (rear) works with Drexel University Co-operative Education student Peter LaSalle.



1991 — PPPL celebrated its 40th anniversary with a party at the Lab. From left, PPPL Directors Ron Davidson, Harold Furth, and Mel Gottlieb cut a cake.

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1994 — TFTR Project Head Rich Hawryluk prepares to cut cake at the TFTR High-Power Results Celebration.



1998 — The Lab's Materiel Control Division celebrated a milestone — five years without a "lost-time" accident.



1994 — PPPL's Russell Hulse (at left) shakes hands with President Bill Clinton during a tea at the White House for Nobel Laureates. Hulse shared the 1993 Nobel Prize in Physics with Princeton University Professor Joe Taylor.



1995 — New Jersey Governor Christine Todd Whitman shakes hands with PPPL employees who had lined up in the TFTR Mock-up area to greet her during her visit in February.



1995 — From left, volunteer chefs Lew Meixler, Margaret Young, Angelo Candelori, John Bavlish, and Steve Iverson help with food preparation at PPPL's "Free Lunch" barbeque for staff.



1996 — The PPPL Open House draws over 2,000 visitors to the Lab for tours, displays, and demonstrations. PPPL's Dave Ciotti (far right) describes TFTR to a group of visitors.



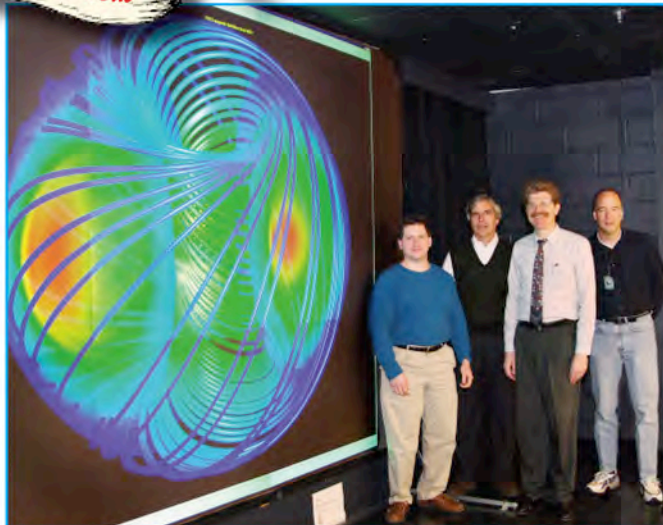
1997 — Staff members gather at the Tokamak Fusion Test Reactor (TFTR) control room on April 4 to watch a monitor displaying the final plasma discharge from TFTR, marking the conclusion of experiments on the machine.



1999 — PPPL staff members see the National Spherical Torus Experiment (NSTX) first plasma on a monitor in the control room on February 12, 1999.



2000 — PPPL's Marianne Tyrrell has a "hair raising" experience during the Lab's Open House in June. Tyrrell tried out the Van de Graaff generator at the hands-on science demonstrations. The generator develops an electrostatic charge, making the hair of anyone who touches it stand on end. The Open House drew about 2,400 people.



2001 — Big displays come to life on PPPL's newly operating High-resolution Wall. At the wall, from left, are Scott Klasky, Steve Jardin, Irving Zatz, and Doug McCune. The image displayed is of the NSTX magnetic field lines.



2002 — During the Science Fair hosted by PPPL, physicist Ed Synakowski talks to Patrick Charles Callan about the youngster's project, "Catapult."



2003 — PPPL Director Rob Goldston delivers the State-of-the-Lab talk to an overflow crowd in the MGB Auditorium, with the message: PPPL has a "top crew" and is "on course."



2004 — Some members of the joint PPPL-Oak Ridge National Laboratory team for the National Compact Stellarator Experiment (NCSX) checked out the arrival of the NCSX Vacuum Vessel Prototype. Mike Viola sits in the prototype in the Lobby.



2003 — In January, Energy Secretary Spencer Abraham visited PPPL to announce exciting news for the entire fusion community: the U.S. is joining negotiations for the ITER project. During the visit, PPPL Director Rob Goldston shows the NSTX to (from left) U.S. Congressman Rush Holt, Secretary Abraham, U.S. Congressman Rodney Frelinghuysen, DOE Office of Science Director Raymond Orbach, and Princeton University President Shirley Tilghman.