

HOTLINE

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

DOE Awards Steve Davis

Steve Davis received a 2001 Information Technology Quality Award for Management and Administrative Excellence from the Department of Energy (DOE) in March. Davis is Systems Development Head for PPPL's Computer Systems Division.

The award recognizes Davis for his "outstanding achievement in the design, implementation, and deployment of state-of-the-art communication and remote collaboration technologies at PPPL and throughout the DOE community." DOE Chief Information Officer Karen Evans presented the award to Davis at the U.S. DOE Annual Information Technology Conference in Denver.

PPPL Computer Division Head Dori Barnes said, "Steve has initiated, championed, and spearheaded a program at PPPL to facilitate remote conferencing and collaborations. Over the past two years, he has engineered a disciplined and structured approach to introducing state-of-the-art audio and video technologies into every facet of PPPL's environment."

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— Dori Barnes

This work ranged from outfitting an experimental control room at PPPL with cameras, microphones, and remote display stations to converting conference rooms into "visual phone booths" to remodeling the Laboratory's stadium-style auditorium for receiving and broadcasting high-quality productions.

"Steve has significantly changed the way business is conducted at PPPL," added Barnes, noting that the motivations for the effort were money, convenience, and better science. Teleconferences, videoconferences, and Internet



Steve Davis

broadcasts result in a significant savings in travel expenses, as well as in the travel time of conference participants. In addition, the changes open up the research stage to all interested parties.

PPPL's remote collaboration technologies and media services have grown tremendously in the past few years. In early FY 2000, PPPL had one small videoconferencing facility that supported eight to 10 videoconferences each month. There are now four dedicated facilities and two mobile systems that can be used in any office or conference room at the Lab. Use has grown to more than 50 video conferences per month, 15 real player/show station broadcasts, and one or more satellite broadcasts monthly. In an average month, an estimated 150 people now participate remotely in PPPL activities.

Davis acknowledged the contributions of Carl Scimeca and the Media Services Group in this expansion. "Major credit needs to be given to Carl and his group for their incredible support of PPPL's collaboration and Media Services' efforts. Carl is the one who's been on the front

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Photos Sought for Contest



We need baby, childhood, or young adult pictures of you! The *Hotline* is holding a photo identification contest. In the next issue, we will run a photo page that includes shots of PPPL staff members at younger ages, along with a contest entry and deadline. The person who identifies the most pictures correctly will win a gift certificate to Prospect House for brunch for two. All present PPPL employees are eligible to send in pictures and to enter the contest that follows. Please send one photo of yourself to Patti Wieser, MS-38, with your name on the back. All photos will be returned to their owners. Photos must be received by Tuesday, April 30. ●

Davis

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lines setting up meetings, responding to last-minute requests, supporting evening and Saturday events, and making occasionally touchy equipment work smoothly so that users can concentrate on doing the real business of the Lab," he said.

Davis came to PPPL in 1974, the same year he received a Ph.D. in nuclear physics from Rutgers University. He initially worked as a diagnostic physicist, while doing computational analysis and working as a physics

PPPL's 50th Scheduled

**A Celebration
of High-Temperature Plasma Physics**

When: June 5-7, 2002

Where: PPPL

Format: Lectures, Banquet, Reception, Tour

Topics: Astrophysical and Geophysical Plasmas, Computational Plasma Physics, Inertial Fusion Energy Science, Macroscopic and Microscopic Stability, Magnetic Fusion Energy Science, Magnetic Reconnection, Nonneutral Plasmas, Plasma-material Interactions, and Plasma Waves.

Confirmed Speakers: Prof. John Bahcall, Institute for Advanced Study; Dr. Herbert L. Berk, University of Texas, Austin; Dr. Jill Dahlburg, General Atomics; Prof. James Drake, University of Maryland; Prof. Daniel Dubin, University of California, San Diego; Prof. Robert Goldston, PPPL; Prof. Jeremy Goodman, Princeton University; Dr. Richard Hawryluk, PPPL; Prof. William Heidbrink, University of California, Irvine; Prof. Karl Lackner, European Fusion Development Agreement; Prof. Gerald Navratil, Columbia University; Prof. Miklos Porkolab, Massachusetts Institute of Technology; Prof. Robert Rosner, Enrico Fermi Institute; Dr. William Tang, PPPL; and Prof. Friedrich Wagner, Max Planck Institute for Plasma Physics.

Registration: www.pppl.gov

operator for both the Princeton Large Torus (PLT) and the Tokamak Fusion Test Reactor (TFTR). His research on the FM-1 Spherator, PLT, Poloidal Divertor Experiment, and TFTR included lower-hybrid heating experiments, neutral-beam injection, divertor studies, magnetic island studies, and performing charge-exchange measurements with diagnostic neutral beams. His tokamak research also included ion temperature measurements, neutral density measurements, and energy balance studies.

In 1983, Davis joined the PPPL Computer Division, managing the development of the TFTR data acquisition and analysis systems. ●

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PPPL Hosts Girls' Conference for the Second Year



Julie Anne Reed, of Prospect-Applegarth Animal Hospital, discusses her work as a veterinary technician with a participant at the conference. Reed is the sister of PPPL's James Morgan.

About 180 female students from schools across the state came to PPPL on March 15 for the Second Annual Expand Your Horizons Mini-conference for Young Women in Science, Mathematics, and Technology. The event for middle and high school students was co-sponsored by the Lab's Science Education Program, Director's Advisory Committee for Women, and Director's Minority Advisory Committee.

The conference featured talks by various women in the sciences, exhibits, lunch, and a lecture by PPPL Director Rob Goldston, "What's Up at PPPL." The guest speakers were from the Fashion Institute of Technology, State University of New York; Con Edison, New York; Janssen Pharmaceutica; Prospect-Applegarth Animal Hospital; and Princeton University's Atmospheric and Oceanic Sciences Program. Topics covered color in fashion, energy management, science careers, veterinary medicine, and earth science and ocean circulation.

Attendees were from Columbus, Granville Charter, Joyce Kilmer Elementary, and Trenton Central High Schools in Trenton, Thomas Grover Middle School and West Windsor-Plainsboro High School South in West Windsor, Mercer County Community College, Northern Burlington Regional High School in Burlington, Notre Dame High School in Lawrenceville, St. Raphael's Parish School in Hamilton, The College of New Jersey, and John Witherspoon Middle School in Princeton. Exhibitors included Bristol Myers-Squibb, Communication Workers of America, the FMC Corporation, the New Jersey Statewide Non-Traditional Career Center, PPPL, and Princeton University. ●



Princeton University grad student Jill Foley (left) operates the Van de Graaff generator, one of the science toys featured among the conference exhibits. The machine generates static electricity for "hair raising" experiences.



Students enjoy the exhibits in the Lobby.

Goldston to Deliver Fusion Talk on Campus

P PPL Director Rob Goldston is scheduled to present this year's Plasma Science and Technology Distinguished Speaker Lecture at Princeton University on Thursday, April 30. The talk, "The Cross-disciplinary Science of Fusion Energy," will begin at 7:30 P.M. on Princeton's main campus in the Small Auditorium, Computer Science Building, 35 Olden Ave. Goldston will describe several fascinating puzzles in the science of fusion plasmas that relate in fundamental ways to solar flares and magnetospheric substorms, to energetic cosmic rays and the very high temperature of the solar corona, and to accretion disks that feed black holes and neutron stars.



Rob Goldston

Free and Open to the Public

The lecture, which is free and open to the public, is sponsored by PPPL and the University's School of Engineering and Applied Science. ●

Belloni Joins Library Staff

Shannon Belloni joined the staff of the PPPL Library on April 15. Belloni (below) came on board as a Special Collections Assistant. She received a bachelor's degree in psychology from the University of Massachusetts, Dartmouth, in 1998. A member of the Psi Chi Honor Society and Sigma Xi Research Society, Belloni moved to New Jersey in 1999 and worked briefly in the mental health field and then for the Visiting Nurse Service of New York. In July, she started working at the Princeton University Library as the Special Collections Assistant for the Biology Library. She can be reached by phone at Ext. 3565 and by e-mail at: sbelloni@princeton.edu. Welcome, Shannon! ●



Harold Furth Memorial Service is Scheduled for April 25

P PPL is planning a Memorial Service for Former Director Harold P. Furth on Thursday, April 25. The event will begin in the MBG Auditorium at 1 P.M., followed by a dedication of the PPPL Library in Harold's name and a reception in the Library. All employees are invited to attend.

The following speakers are scheduled for the service: Dr. Stirling A. Colgate (LANL), Professor Bruno Coppi (MIT), Dr. N. Anne Davies (DOE/OFES), Professor Nathaniel J. Fisch (Princeton University), Dr. T. Kenneth Fowler (University of California, Berkeley, retired), Professor Robert J. Goldston (PPPL), Professor Roy W. Gould (California Institute of Technology), Professor William Happer (Princeton University), Professor Chuan S. Liu (University of Maryland), Professor Marshall N. Rosenbluth (General Atomics), Professor Roald Z. Sagdeev (University of Maryland), and Dr. John W. Willis (DOE/OFES).

Furth, a pioneer in the U.S. fusion program and the originator of the Tokamak Fusion Test Reactor project, died February 21 in Philadelphia at the age of 72. Furth was a giant of fusion science and a person of untiring energy and boundless optimism. He was Director of PPPL from 1981 through 1990. ●