



HOTLINE

PRINCETON PLASMA PHYSICS LABORATORY

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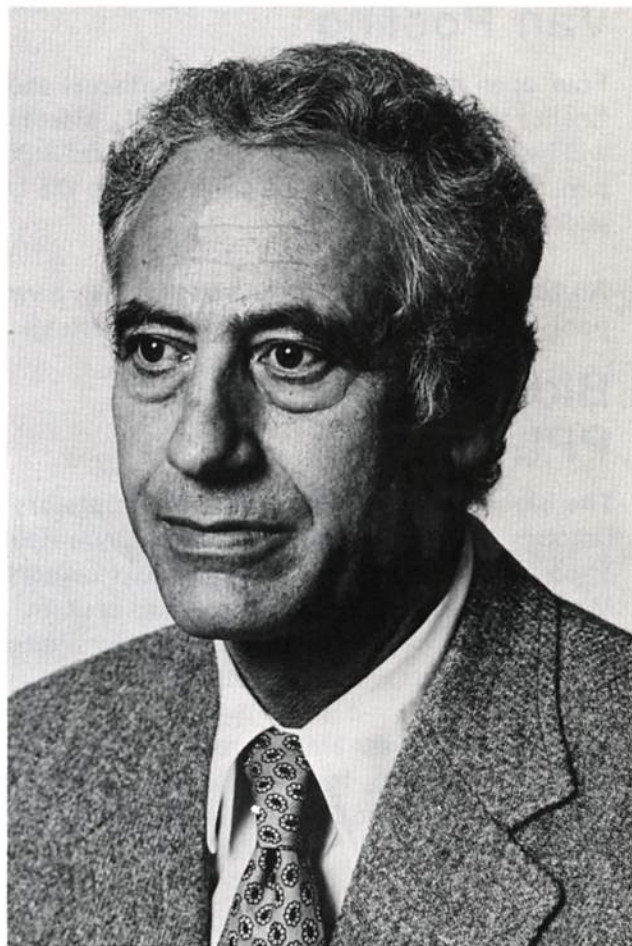
Maxwell Prize To Dr. Stix

Thomas H. Stix, Associate Director of Academic Affairs at PPL, has been awarded the 1980 James Clerk Maxwell Prize in Plasma Physics by the American Physical Society. The citation accompanying the award reads: "For his contributions to the development and formalization of the theory of wave propagation in plasmas and for his pioneering research on radio frequency plasma heating. His work has played the guiding role in the understanding of waves in space plasmas and in the development of advanced plasma heating methods for controlled fusion devices."

Dr. Stix, Professor of Astrophysical Sciences at Princeton, is the sixth recipient of the prize, which is sponsored by Maxwell Laboratories, Inc. Past recipients include Princeton University Professor Lyman Spitzer, Jr. and Institute of Advanced Study Professor Marshall Rosenbluth. The prize will be awarded in November at the American Physical Society's Division of Plasma Physics meeting in San Diego.

Professor Stix has been associated with PPL since 1953. In the late 1950's his work with ion cyclotron frequency heating showed impressive results even on the relatively small devices in use at the time. Additional development of rf methods was continued by PPL physicists William M. Hooke, Shoichi Yoshikawa, Joel Hosea, Stefano Bernabei, Hironori Takahashi, Patrick Colestock and David Hwang, and by PPL engineers Homer Hill, Anthony Sivo and John Lawson. This work has helped bring ion cyclotron heating and other rf methods to the point where they are foreseen today as practical methods for igniting reactor plasmas.

Professor Stix served as Chairman of the APS Division of Plasma Physics in 1962-63, and was a Guggenheim Fellow in 1969-70. He has served in an editorial capacity for a number of physics journals and is a current member of the American Physical Society Panel on Public Affairs.



Dr. Thomas Stix

President Signs Fusion Bill

The Magnetic Fusion Energy Engineering Act (MFEA) of 1980, which recommends an intensified program of research into nuclear fusion technology, became law October 7 when President Carter signed the bill.

The act recommends that approximately \$20 billion be spent on fusion research over the next ten years, although Congress must appropriate funds on a yearly basis. In addition, it recommends the establishment of a National Center for Fusion Engineering which would coordinate intensified efforts toward achieving an operating Fusion En-

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Fusion Bill *cont. from pg. 1*

gineering Device (FED) by 1990. The recommended target date for a demonstration fusion power generating plant was set at the year 2000.

For a more detailed analysis of the provisions of the MFEEA, read "Debate on Fusion's Future" in the next issue of *PPL NOW*.

Van Pooling

Four open meetings will be held to discuss and finalize the van pooling program at PPL. Meetings will be held in Sayre Hall at 10:30 a.m. and 3:30 p.m. October 27, and at the same times in the LOB auditorium October 30.

All those interested in driving or riding in a van pool should attend one of the four meetings.

Bloodmobile Wants PPL Plasma

The Bloodmobile will again visit the laboratory October 29 from 10 a.m. to 3 p.m. at Sayre Hall. Those wishing to donate blood should contact Meg Gilbert at ext. 2036 to set up an appointment. Donors will be scheduled every 15 minutes, and refreshments will be served.

Although employees are covered for blood needs under a group plan, the university must meet its yearly quota of blood donations to continue to offer this benefit.

Fusion Features

PPL staff should be on the lookout for feature articles on fusion energy which will appear in the following magazines:

December: *Discover*, *New Jersey Monthly*; January: *Ogni*; February: *National Geographic*.

Safety Shoes

Iron Age Shoe Co., the laboratory's safety shoe vendor, will have its Iron Age Shoemobile van at C-Site from 9 a.m. to 4:30 p.m. October 29. The van will be parked at C-Site, adjacent to Receiving 4.

Although the procedure for buying or ordering safety shoes remains as before, the amount PPL

will pay toward the shoes has been increased to \$25. Brochures concerning the shoes and withdrawal authorization forms are available at PPL stockrooms.

PPL Calendar

Amid the profusion of new calendars on the market these days, there's one every laboratory employee should know about — the PPL Calendar.

The calendar is a weekly compendium of the seminars, meetings, colloquia and special events scheduled throughout the laboratory community. Items intended for inclusion in the calendar should be received by Mary Dyson no later than noon on the Friday preceding the event.

The calendar is published under the auspices of Associate Director for Academic Affairs Thomas Stix. It is distributed by mail, and copies are posted on laboratory bulletin boards.

For further information about the calendar, contact Mary at ext. 2489.

Stop Smoking Program

Approximately 32 employees are trying to quit at PPL — and the laboratory is encouraging their efforts, since the quitting involves smoking.

The group is the first class in a stop smoking program offered by the Personnel Department and Blue Cross/Blue Shield. The free classes are based on the American Cancer Society's methods for kicking the smoking habit, which has a 50% success rate to its credit.

The eight one-and-a-half hour sessions run from 4:30 to 6 p.m. A second class will be established if sufficient employee interest is shown. Enrollment will be on a first come, first serve basis.

For further information about this program itself or about future classes, call Joyce Lafharis at ext. 2685.

The PPL Hotline is issued by the Princeton University Plasma Physics Laboratory, a research facility supported by the U. S. Department of Energy. Correspondence should be directed to PPL Communications Office, Module 2, C-Site, James Forrestal Campus, ext. 2754.

Note-worthy Action

Three members of the laboratory's emergency services unit are receiving letters of commendation from fire chief Jack Anderson, thanking them for their efforts in rescuing an injured construction worker in June.

Gregg Tompkins of Transportation Services, Joe Pownall of the Tech Shop and Jerry Faul of DOE came to the aid of a construction worker who fell approximately 40 feet down an air shaft while working on TFTR June 18. The trio crawled through a 46 inch connecting tube, immobilized the man's injuries, and brought him out of the shaft safely.

Chief Anderson said the worker suffered a concussion in the fall, as well as fractures of the leg, foot, ankle and vertebra. His injuries required hospitalization for two weeks, according to Anderson.

In his letter of commendation, the chief cited the "competence and ability" of each man. "It is a great pleasure to know we have dedicated individ-



Gregg Tompkins, Joe Pownall and Jerry Faul (left to right)

uals of your caliber as members of the emergency services unit." He added that the three "did a remarkable job, and they deserve a little credit!"

Takahashi Tops Tournament



Lane Roquemore (right) congratulates Hiro Takahashi, the winner of the fourth annual Melvin B. Gottlieb Trophy tennis tournament. Takahashi defeated Roquemore in the finals to take the tournament title.

Hiro Takahashi became the first two-time winner of the Melvin B. Gottlieb Trophy tennis tournament when he took the 1980 championship recently. He last topped the tournament two years ago.

Hiro defeated this year's spoiler, Lane Roquemore, in the finals to take the trophy. Roquemore had gained the final match by defeating the second and third seeds, Jim Bialek and Myron Norris, while Takahashi beat David Eames in his semi-final match.

Twenty-seven PPL tennis players came to the tournament kickoff September 22, but by the end of the first two rounds the field had been whittled down to eight competitors. The final three rounds were played over the next two weeks, with the consolation finals still remaining to be played.

A picnic was again provided for attendees at the fourth annual edition of the tournament. The event was organized by John G. Edwards and Marilee Thompson.

Run For Fun Results

Dennis Mueller was the first man to cross the finish line in the rescheduled PPL Run for Fun, held October 2 at 12:15 p.m.

Mueller outran his 26 competitors, navigating the two-and-a-half mile course in 13:09. He was followed by Dave Johnson, who turned in a time of 13:59. Jack Conner took third place with a time of 14:59.

Beverly Laffin led the women finishers, completing the circuit in 20:14. Second place went to Marilee Thompson with a 20:34. Anne Golden turned in a 22:30 run to capture third spot.



Betty Klank hands a timing stick to another runner as he crosses the finish line in the recent PPL Run for Fun. Dennis Mueller came in first in the men's division of the race, while Beverly Laffin paced the women's division.

Approximately 45 people signed up for the run, which organizer Bruce Brilliantine termed "a real success" despite rescheduling and gloomy weather. Lemonade was served to the racers as they crossed the finish line.

Bruce thanked Ann O'Day, Betty Klank, fire chief Jack Anderson and the laboratory's emergency services unit, Jim Kopliner and his security staff, Connie Stout and the maintenance department, Jules Nemeth and Jerry Williams for their help in the event. He expects to schedule another "Run for Fun" in the spring.

D&R Canal Bike Crossing

Progress toward a proposed D&R Canal crossing to serve cyclists coming to Forrestal Center is continuing slowly. The construction application has been completed by the state Parks Department, and will be signed by several groups, including the Canal Commission, the Historic Preservation Commission, and the Department of Water Quality. The application will then be submitted to the regional and federal officers of the Army Corps of Engineers.

A&E proposals for design of a bridge and adjoining recreation area have been received, and design will start soon. Once the design work is complete, the job must be advertised and bids received before construction can take place. Funding for the project has been approved.

The number of regional, state and federal agencies involved in the project has been cited as a contributing factor in delaying completion of the project.

Credit Card Fraud

PPL employees with credit cards are urged to be wary of anyone contacting them by telephone and asking for information concerning their credit cards. Recently thieves posing as bank or company representatives have been calling individuals, asking for credit card numbers to "double check your account". Callers have also represented themselves as sweepstakes officials, offering a prize for credit card numbers that match a fictitious contest number.

Once thieves have your credit card number, they can charge purchases to your account — and leave you with a mountain of bills.

Never give information about your credit card accounts over the telephone unless you are certain who you're talking to. If you do receive such a call, tell the caller you'll check the information he wants and call him back. If the telephone number you're given doesn't match that of your bank or credit card company, report the call to the bank or company.

For Sale

FOR SALE -- 1969 Rambler American, 62,000 miles. Best offer. Call ext. 2755.

Hobie Gates Retirement

Over 70 people gathered in the Cedar Gardens Restaurant in Hamilton Township September 18 to honor Hobie Gates Jr., who retired from the laboratory staff September 30 after more than 18 years of service.

The dinner was a testimonial to Hobie, whose most recent post was that of internal auditor. He was presented with an artist's rendering of C-Site as a retirement gift.

Laboratory director Dr. Melvin Gottlieb attended the dinner, along with various PPL officials and employees who have worked with Hobie throughout his tenure at PPL. Also present at the dinner were Hobie's wife, his three children, and their spouses.

The dinner was organized by Business Manager Angelo Candelori.



Hobie Gates Jr. accepts a round of applause, led by laboratory Director Melvin Gottlieb, Associate Director Richard Rossi and Raymond Clark (right to left) during a dinner in his honor. He recently retired from PPL after more than 18 years of service.



Members of the PPL emergency services unit use the Jaws of Life to help 'rescue' a 'victim' trapped in a car. The demonstration, conducted at C-Site following a fire drill, was held in conjunction with National Fire Prevention Week.