



HOTLINE

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MG Set Reaches Speed Goal

The first motor generator set for TFTR was successfully spun at 375 revolutions per minute (rpm) during testing May 13. This was the first time the unit had reached its top-rated speed.

Dr. Ernst de Haas, lead engineer for the TFTR MG sets, pointed out that the unit achieved the speed mark with a balance tolerance of .018 inch. Testing will be continued until the set achieves the 375 rpm speed with a .010 inch tolerance.

Once balancing is completed, a final mechanical test requires the MG set to be spun to 412.5 rpm, 10 percent over its rated speed. "We do that to check machine integrity," Dr. de Haas explained. "then we never do it again." After its mechanical

soundness has been confirmed, the unit will begin a rigorous course of electrical testing.

At the moment before a TFTR pulse, the MG set's 600-ton rotor will be turning at 375 rpm. When the pulse begins, approximately 50 percent of the energy stored in the set is transferred to tokamak systems. The speed of the rotor drops to 257 rpm, and requires five minutes to regain pulse speed.

The two MG sets for TFTR are nine times as big as the older motor generator sets at PPL. Each has a 600-ton rotor and a 300-ton stator, and can deliver 475-MVA pulses for six seconds at five minute intervals.

Information Meeting

PPL will host an Information Meeting on TFTR/TFET (Tokamak Fusion Test Reactor/Tokamak Fusion Engineering Test) June 24 and 25.

The meeting will describe progress on TFTR, and will detail plans for the development of a strong scientific and technological base for toroidal fusion power development throughout the 1980's. The contributions of industry and other laboratories, both in research and development support on the TFTR design and in work performed on various TFTR subcomponents, will be recognized. The possible roles industry and other laboratories may play in future TFTR/TFET development will also be explored.

The technical aspects of the meeting are being coordinated by Roy Little, with Irene Giersing and Pam Johnson acting as general meeting coordinators. Information Services will provide tours, graphics work, printing and media relations support during the meeting.

Energy Conservation

Increased energy costs and budgetary restrictions will require the continuance of last year's summer energy conservation program.

In accordance with PPL policy, all air conditioning systems operated for human comfort will be run at a minimum indoor temperature of 78 degrees. Departments with individual air-conditioning units are requested to adhere to the temperature minimum, and to turn off all units during the night, weekends and non-use hours. Timers should be used where available. Air conditioning used for special requirements, such as laboratory experiments, sensitive equipment, valuable books and the like should be minimized as much as possible. Systems with humidity controls may be operated below the 78 degree level to conserve the energy necessary to reheat the air.

By observing similar restrictions last year, a major reduction in energy consumption was attained. That reduction helped keep PPL within energy limits all year, preventing shutdown of experimental devices.

Amnesty Results

C-Site Amnesty Day efforts resulted in an estimated \$750 saving in Cafeteria equipment. The anonymous winner of the free lunch scoured his area and returned 73 items. The biggest surprise was the return of over 100 trays from all areas. Although only about one tenth of the lost items found their way home, Amnesty Day results were significant.

Sports Equipment

Afternoon athletes can display their prowess by using recreation equipment signed out through the ERC Recreation Committee. Basketballs, horseshoes, quoits, Frisbees, Bocci kits, badminton equipment, croquet sets, and Frisbee horseshoes are among the items available.

Equipment may be signed out from any member of the committee, but equipment should be reserved prior to lunchtime. It is the responsibility of the individual signing out the materials to see that they are returned.

ERC Recreation Committee members are Mary Ann McBride (New Guggenheim, Room 110, ext. 2590), Steve Ragolia (C-Site Maintenance, Drafting, ext. 3098) and Tom Hurley (Forrestal 1-HA, Steam Plant, ext. 3107). Sports equipment will remain available throughout the summer months.

Cafeteria Committee

A B-Site Cafeteria Committee has been appointed to work with cafeteria management "to improve and perfect their services," according to Human Resources Manager Len Thomas.

Committee members include Chris Gillars, Tom Hurley, Jack Joyce and Flo Short. They will be working with Jim Lawson of the University's Food Services department to provide better service at the University-run cafeteria.

Len urged all employees with suggestions for cafeteria improvements to contact committee members and voice their concerns.

Relocation

The Health and Safety Office has been relocated from the Gas Dynamics Building to Building 1-0. All telephone extensions remain the same.

PPL Picnic

Mother Nature had better be nice to PPL June 19. That's the date of the annual laboratory picnic, which will be held rain or shine starting at 1 p.m.

The day will be filled with games for adults and children, including egg and balloon tosses, a fish pond, pony and hay rides, and much more. Hot air balloon rides will be given on a weather permitting basis.

The picnic is open to all PPL employees, their spouses and their children. Unmarried employees may bring a guest.

Tickets for the picnic go on sale June 7 at the C-Site reception desk, and will be sold through June 18. Ticket request forms are being sent to all employees through campus mail; they should be filled out and returned to Mary Alice Eubank, C-Site reception desk, no later than June 1. **NO ONE WILL BE ABLE TO PURCHASE PICNIC TICKETS UNLESS A TICKET REQUEST FORM HAS BEEN RECEIVED.**

Ticket prices are five dollars for those 11 years old and older. Children 10 years old and younger will be admitted free.



Earl Thomas is the new C-Site cafeteria manager, replacing Buddy Macrie. The Millstone resident has been with Interstate United for 15 years, and was previously cafeteria manager at the U.S. Postal Service bulk mailing facility in Jersey City.

Cafeteria Hours Changed

In conjunction with the June Information Meeting, the C-Site cafeteria will be open to PPL staff from 11 a.m. to 12:30 p.m. on June 24 and 25. Laboratory employees are requested to arrange earlier lunch hours on those days.

Patent Program

PPL now has a Patent Awareness Program, as well as a Committee on Inventions, to increase patent awareness of laboratory staff. Five invention disclosures were filed with the committee during April:

- Device for Suppressing Plasma Tearing Instabilities, by Allan Reiman
- Enhancement of Thermonuclear Reactor by Polarizing the Plasma Ions, by R. E. Valeo, H. Furth, M. Goldhaber
- Movable Uranium Rods and Stringers for Reactivity Control of Fusion Reactor Blankets, by D.L. Jassby
- Current Drive with Oscillating Resistivity, by N.J. Fisch
- Spectral Filters for Collimated Fast Neutron Beams from Magnetically Confined Reacting Plasmas, by D.L. Jassby

For further information about the committee or the program, contact committee secretary Nancy Jones at ext. 2659.

Correction

An article on health insurance in the February 22, 1982 HOTLINE contained an error in the second paragraph. The sentence should have read: As a Medicare recipient, you are no longer eligible for *primary* Blue Cross/Blue Shield programs.

Tennis Picnic

PPL tennis buffs can measure each other's "net worth" during the third annual PPL Divisional Tennis Tournament, scheduled for June 12 at the Princeton University tennis courts.

Each tournament entrant will be assigned to one of four teams, representing the Administrative,

Engineering, Experimental or Theory divisions of the lab. Team captains will arrange team members according to their ability, and each team will field at least four singles players and one or two doubles teams.

Each team will play once in the morning and once in the afternoon during the tournament. The team winning the most individual matches (two out of three sets, or whoever is ahead at the end of the 75-minute time slot) wins the round.

The tournament is open to all PPL employees and their relatives, and players of all abilities are encouraged to participate. A barbecue lunch will be available beginning at 11 a.m.

To enter the tournament, contact Marilee Thompson (ext. 3422) or John Edwards (ext. 3305) by June 10. Each entrant must bring four dollars and one can of new yellow tennis balls to the tourney.

The rain date for the event is June 13.

Housing Help

The PPL Housing Program needs accommodations for temporary visitors to the lab. If you have rooms to rent or a house to sublet, and would like to rent to a laboratory visitor, please contact Meg Gilbert, Personnel, at ext. 2036.

Screening Results

Approximately 134 employees were found to be "high" during blood pressure screening conducted in conjunction with the new ID badge program recently.

Data compiled by Dr. Ernst de Haas revealed that out of the 750 people tested in the voluntary screening, 134 had readings in the "high" range (150 and over diastolic/95 and over systolic). An additional 100 employees were found to be "borderline" cases (140-149 diastolic/90-94 systolic), while 516 employees were found to have normal blood pressure readings. Dr. de Haas added that the distribution of readings is approximately the same as that for the general population.

The employees who tested above normal are being asked to have their blood pressure rechecked, according to Dr. de Haas. "A single blood pressure check serves only to separate out the normals," he explained. "Of the 234 borderline and high read-
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ings...perhaps as many as 30 to 50 percent will be found to be false positives on a recheck." The "true positives" (those with high readings on a recheck) will be urged to see their doctors for treatment.

The screening represents the first step toward what may become a continuing preventive medicine program at PPL. Employees would be checked to spot early signs of heart disease, cancer and stroke, the three diseases which account for 80 percent of the deaths in the United States. The free screening, which would include blood pressure and height versus weight checks, would eventually become mandatory.

Workers Compensation

The University carries Workers' Compensation insurance for employees who are injured during the course of an in a manner directly relating to their work.

If an employee is injured at work, an accident report **MUST** be filed *immediately* with the Health & Safety (H&S) Branch. It is the employee's responsibility as the injured party to fill out the report and submit it to his *immediate* supervisor. If the employee is unable to complete the accident report, however, it becomes the supervisor's responsibility to see that the report is filed. All departments should be sure to have a supply of blank accident report forms on hand; additional copies can be obtained from Health & Safety.

After the accident report is completed, the supervisor should sign it and send it to H&S. If the supervisor does not agree with the statements in the accident report, he should attach a memo that notes any discrepancies or comments.

After the form is processed by H&S, it is sent to the PPL Personnel Office. Personnel then submits the form to the laboratory's insurance carrier.

Once an accident report is received by Personnel, the employee will be notified and given instructions for submitting medical bills.

The determination of whether or not an accident is work-related is made by our insurance carrier, based on information provided in the accident report as well as their own evaluation. No bills can be paid until this whole process is completed. If it is deter-

mined that an injury or illness is not work-related, the employee will be notified and any medical bills will be returned to the employee. He can then submit the bills for payment through any other health insurance he may have.

Further questions on this benefit should be directed to Mary Bersch, PPL Personnel Office, ext. 2043.

Golf Tournament

Approximately 80 golfers tee'd off when the Princeton University Golf League held its season opening spring tournament April 21 at Forsgate Country Club.

Gene Evans carded a 69 to win the low net portion of the tournament, followed by Elmer Perontoni in second place with a 70. In the closest to the pin competition, Larry Dudek won on the front nine with a 12'6" placement; Bob Mosley was second. Bob Kern took first place on the back nine, coming 3'0" away from the pin, and Hoyt Masterson was second.

The seventh hole was the longest drive hole for tournament competitors. Bill Snead had the longest drive for golfers with handicaps from 0-8; Marian Shupsky won for the 9-12 handicap division; and Jerry Gething placed first in the 13 and over handicap section.

Door prizes of golf balls, golf towels and umbrellas were also awarded.

Regular league play began May 3 at the Princeton Meadows golf course. Anyone interested in substituting for the league should contact Bill Ernst at ext. 2438.

Singles Social

The Princeton University League's monthly singles wine and cheese social will be held June 10 at 5 p.m. in the Fine Tower faculty room on main campus. All single members of the University faculty and staff are invited to attend. For further information, contact Naoma Dorety at 272-4097.

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 Information Services, Module 2, C-Site, James Forrestal Campus, ext. 2754.