

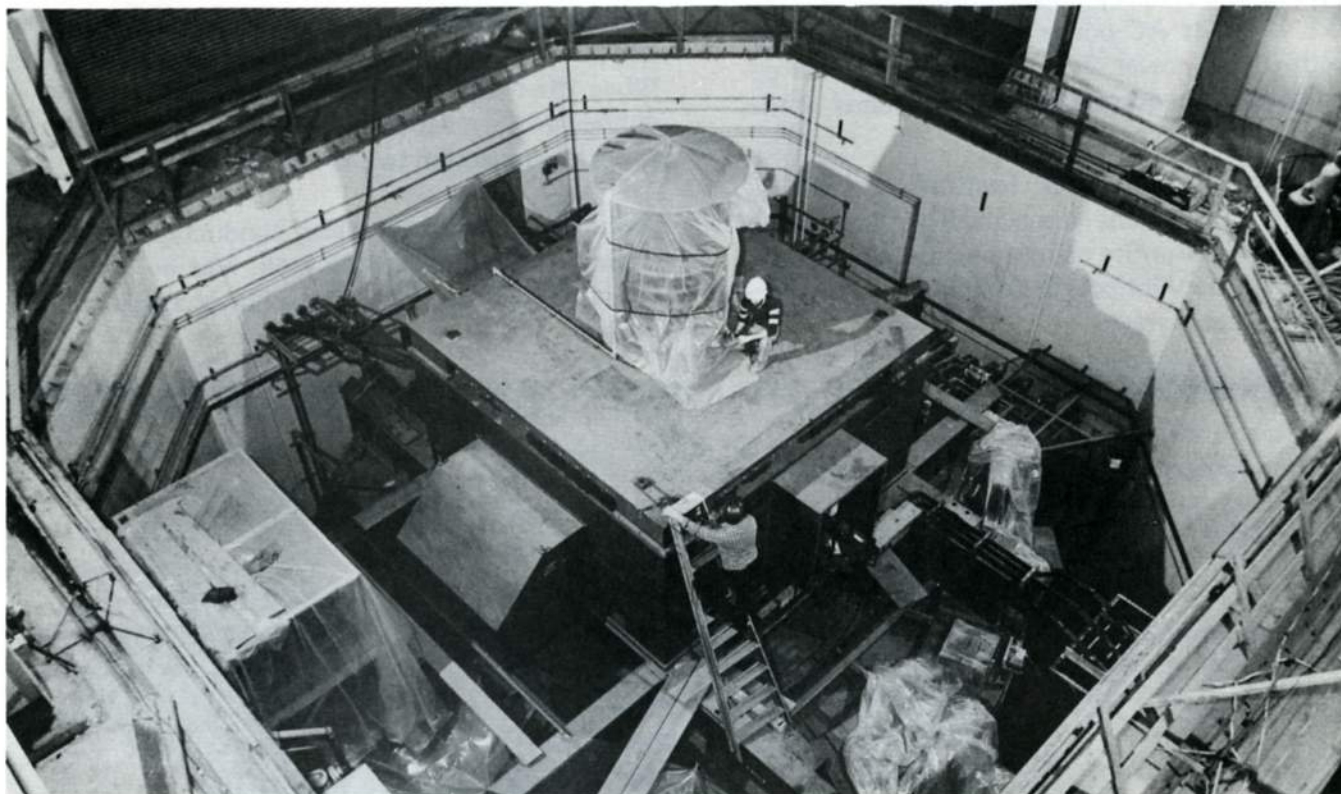


HOTLINE

PRINCETON PLASMA PHYSICS LABORATORY

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TFTR MG TEST SUCCESSFUL

The first motor generator set for TFTR was successfully spun for the first time October 23. The rotor was brought up to 15 revolutions per minute (rpm) and slowed with a manual braking system.

Dr. Ernst de Haas, lead engineer for the MG sets on the TFTR project, explained that the 600-ton rotor was only run to 15 rpm because work on the cycloconverter has yet to be completed. The cycloconverter is the system component that, when coupled with a liquid rheostat, slows the rotor from an idling speed of 257 rpm to 25 rpm. Work on the cycloconverter is expected to continue through this month.

The two MG sets for TFTR are nine times as big as the existing motor generator sets at PPL. Each has

a 600-ton rotor and a 300-ton stator, and is rated at a maximum speed of 375 rpm. Each generator can deliver 475-MVA pulses for six seconds at five minute intervals.

The pieces for each set were supplied to PPL by General Electric, and were assembled by the Belding Corporation. The sets were built vertically, since horizontal construction would have placed too great a strain on the bearings and shafts.

Pieces of the stator for the second MG set, damaged in last December's accident, were removed from the pit in September. Engineers from General Electric have examined the rotor and remaining systems for the set, and are currently assessing damage to the unit.

NB Power Tests Underway

The neutral beam power supply system for TFTR successfully began the initial phase of its testing program recently.

The test involved the integration of the local control system with the primary power subsystem, as well as the energizing of the primary power subsystem. The primary power subsystem converts 13.8 kilovolts AC power to 150 kV, 12-phase rectified DC power. The local control center coordinates and controls all the subsystems of the NBPS.

According to Russ Winje, head of the NBPS effort, "It was a very important first step" toward integrating the entire neutral beam power system with the 120 kV ion source developed by Lawrence Berkeley Laboratory.

The subsystem produced 100 kV at 70 amps for pulse lengths up to five seconds on September 30. It will ultimately produce 150 kV at 70 amps, powered by 13.8 kV feeders from a transformer in the main power substation. The testing process is taking place in the Experimental Power building.

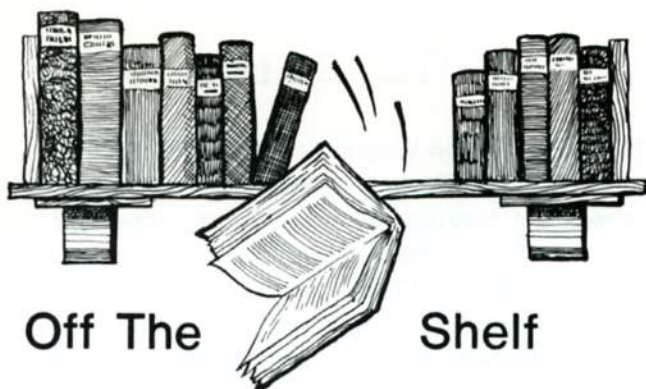
Testing is expected to begin on the remainder of the power system within the next two months. When the entire system is functioning, it will be connected to resistive dummy loads for testing prior to connection to the ion source.

The testing program is being conducted by Jim Gregory of the TFTR Division, and by Dale Ashcroft and members of the Power Engineering Branch.

Van Pooling

PPL and twenty Forrestal Center companies are attempting to establish a joint van pooling program. As a result of a meeting held at the laboratory recently, the following list of van pool contact people has been prepared. Interested parties should call the contact person in their area, giving their name, company, work hours, flex time, and company telephone number.

NAME	COMPANY	HOME AREA	WORK PHONE
Alison Samph	Arete	Philadelphia, PA	452-8090
Cheryl Woodall	Arete	Cranbury, NJ	452-8090
Don Greene	DOE	Newark, NJ	683-3717
Grace White	DOE	Rocky Hill, NJ	683-3711
Chris Ferrara	Interpool	New Brunswick, NJ	452-8900
Cindy Gallagher	Mobil	Hillsborough, NJ	452-9440
Al Giancarli	Mobil	Trenton, NJ	452-9440
Calvin Jones	Mobil	Trenton, NJ	452-9440 (ext. 48)
Deena Miller	Mobil	Highland Park, NJ	452-9440 (ext. 67)
Patty Ortleb	Mobil	Englishtown, NJ	452-9440
Betsy Podsiadlo	Princeton Forrestal Center Administration	Montgomery Twsp., NJ	452-7720
George Kolinchall	PPL	Levittown, PA	683-2419
Carl Liberti	PPL	Levittown, PA	683-2697
Brian McCormack	PPL	Morris County, NJ	683-2024
Laura Steer	PPL	Mt. Holly, NJ	683-2102
Lois Gilbert	Remington Rand	Trenton, NJ	799-8950
Rhonda Rossi	Remington Rand	Trenton, NJ	799-8950
Kim Lavan	Robert Wood Johnson Foundation	Trenton, NJ	452-8701
Susan Rasmussen	Robert Wood Johnson Foundation	New Egypt, NJ	452-8701
Marilyn Williams	Robert Wood Johnson Foundation	Newton, PA	452-8701
John Shiber	Xerox	E. Brunswick, NJ	452-1800



Most laboratory staff members are aware that the library has the most recent edition of Thomas' Register of Manufacturers, located in the reference section. There are other guides that expand on Thomas', and users of Thomas' should be aware of this small collection, located near the Circulation Desk.

MATERIALS ENGINEERING

This well-known directory of products covers materials such as iron, steels, plastics, rubbers and elastomers, finishes and coatings, composite materials, and so on. Many specifications are included along with manufacturers advertising. The second section includes a guide to local sources. The Comparison of Materials division is very extensive, providing considerable information on the properties of materials. Published annually by Pentron/IPC, Cleveland, Ohio.

NUCLEAR NEWS

A buyers' guide to nuclear products, materials and services. The directory is divided into two sections: companies located in the United States, and foreign companies. A directory of suppliers is also included. Published by American Nuclear Society, LaGrange Park, Illinois.

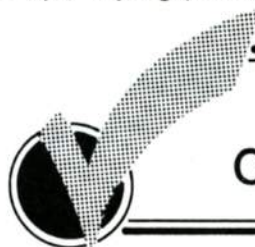
OPTICAL PURCHASING DIRECTORY

The Optical Industry and Systems Directory is a buyers' guide and product table listing over 1200 products. An alphabetical listing by product name with many cross references make this a useful source of product information. Suppliers are listed as well as manufacturers and a geographical guide. Published by Optical Spectra, Pittsfield, Mass.

ROBOTICS INDUSTRY DIRECTORY

First complete and comprehensive listing of robot manufacturers and related component manufacturers. Lists institutions, laboratories and universities performing related research, and consulting

firms with robotic expertise. Should be useful to engineering personnel, management, and procurement. Published annually by Robotics Publishing Corp., Tujunga, California.



Security Checkpoints

In case of an emergency do you know who to call and the phone number?

When an emergency occurs, you should have at your finger tips the number needed for the specific type of emergency. When you are at work on the Forrestal campus, the telephones have a sticker affixed to them with the numbers to call in the event of an emergency. The emergency line used at Forrestal is 3333; the number used for Main Campus is 3131. You should also have a list of numbers for emergency notifications in your home, including your local police department, fire and first aid squads, family doctor and the local hospital.

When making an emergency phone call, there are steps which you as the caller should follow to allow the agency being contacted to perform its task efficiently.

When placing an emergency call, remain calm and give your name; the type of emergency (illness, injury, fire, etc.); and the exact location of the emergency as specifically as possible. After giving the information, *do not hang up* until the individual handling your call has all the information he needs. Other information may be requested, such as your address, the victim's name if known, and so on.

By following these simple steps, your emergency can be handled quickly and efficiently.

Wanted

The ERC is in need of a recording secretary. Duties would include attending all ERC meetings, taking minutes and distributing them to ERC members.

Interested parties should contact Leigh Ann Fares at ext. 3748.



The annual PPL Christmas Dinner-Dance will be held at Cedar Gardens in Hamilton Square December 11. Tickets for the event will be on sale from November 30 to December 9 at the C-Site reception desk. Ticket prices will be announced in a future edition of HOTLINE.

Benefit Questions

Any employees who have questions about establishing a Supplementary Retirement Annuity (SRA) contract should call Loretta Dougherty at Clio Hall, Main Campus, ext.7-2-3301.

Medical Benefits

Your Blue Cross/Blue Shield ID card identifies which group you participate in. If you are enrolled in the Blue Cross/Blue Shield 500 series, unmarried children are eligible for plan coverage through the end of the calendar year in which they become 19 years old. If you are enrolled in the Blue Cross/Blue Shield 750 series, unmarried children continue to be covered through the end of the benefit month in which they marry or the end of the calendar year in which they become 23 years old.

Enrollment may be continued beyond age 19 or 23 for an unmarried child who is incapable of self-support due to mental retardation or a physical handicap that began before age 19.

Major Medical coverage continues for unmarried children until age 19; if the unmarried child is a full time student and dependent on the employee for support, Major Medical coverage continues through age 22.

ERC Notes

The ERC met on Wednesday, October 28. The rules and procedures for meetings were finalized, as was the meeting format. The standing and ad hoc sub-committees (Communications, Benefits, Day Care, Safety, Charter, and Training) reported their proposed goals for the year to chairman Larry Michaels. Following committee reports, safety shoes were discussed under old business. Dr. Furth and Mr. Rossi will attend the next ERC meeting to consult with the committee on a laboratory administrative matter.

Training

Anyone responsible for training programs (whether ongoing or past) should contact Len Thomas at ext. 2052. Len is currently attempting to identify present training activities and coordinate the establishment of future programs. If you have specific training needs or questions pertaining to a training program, please notify Len at Personnel, Training, Room 210, Sayre Hall, B-Site.



Thanks to his co-workers in Plant Maintenance and Operations, retiree John Kessler will never forget his days as supervisor of rigging at PPL. Prior to leaving the laboratory October 30, John received a replica of the Grove crane he worked with for six years. The "crew" of the crane are painted to resemble Joe Kondash, George Dowers, Larry Jones and John himself. John also received a watch and a tankard at his Oct. 29 retirement party.