



HOTLINE

PRINCETON PLASMA PHYSICS LABORATORY

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Personnel Changes

A promotion, two internal transfers and a new employee have combined to give the Personnel Department a different look.

Sandy Birchmeyer, formerly Manager of PPL Employee Relations, has been promoted to Associate Director for Selection and Employee Relations. Her new post puts her in charge of all employee relations, selection and affirmative action functions of the laboratory.

Sandy holds a B.A. from the College of New Rochelle, and her previous experience includes working for the City University and the Mayor's Office of New York.

Joining PPL as Manager of Employment is Tom Sutton. Tom received his MBA in industrial relations from Purdue University, and was professional employment administrator for RCA in Princeton and Monticello, Indiana for seven years.

Catherine Howard, who joined the University in the President's office in 1973, is now a personnel recruiter. Cathy did undergraduate work in business administration at Rider College, majoring in industrial relations. She joined the Laboratory in November of 1974, and had previously worked in Dr. Melvin Gottlieb's office as Assistant to the Director.

Leonard Thomas, formerly financial manager in the PPL Administration Department, has become the new Supervisor of Employee Relations. He holds an associate degree in business administration from Mercer County Community College, and received his B.S. in business management from Fairleigh Dickinson University. He will handle employee complaints, grievances, suggestions, sports activities and other general employee relations areas.



Sandy Birchmeyer



Tom Sutton



Cathy Howard



Len Thomas

New Hires



Kathy Dunn joined the Laboratory on March 3, 1980 as a General Writer in the Communications Office. Kathy, who received her B.A. in mass communications from Douglass College, New Brunswick, was previously employed as a staff reporter for the Bound Brook Chronicle newspaper. She recently won the New Jersey State Bar Association Media Award for the second consecutive year.

Marjorie Barnett joined the Laboratory on March 3, 1980 as Manager of Telecommunications. Marjorie formerly worked in the Telecommunications Department on main campus for 14 years.

Technicians Trained In Leak Detector Maintenance

On Wednesday, May 1st, representatives of Veeco Corporation presented an all-day training session to PPL technicians from the electronics, vacuum, PLT, and PDX groups. The purpose of the session was to train PPL personnel in the maintenance and repair of helium leak detectors, which are used extensively on all vacuum systems around the laboratory.



Taking part in the leak detector maintenance training were Fred Simmons, Timothy Ellis, Joe Bartolick, Gary Drozd, Howard Henry, Thomas Provost, Robert Mullen, Russell Apgar, Edward Pinelli, William Kineyko, Howard Richter, Harry Anderson, Robert Ericsson, George DePagnier, Randy Smith, Thomas Caro and, Veeco Corporation instructor, Roy Schnabel.



Roy Schnabel from Veeco Corporation (center) instructs Randy Smith (left) and Howard Henry (right) in leak detector maintenance.

P&R IMPROVEMENTS

In an effort to enable authors to process large amounts of paperwork faster, more efficiently and more professionally, Publications and Reports Center has acquired two new NBI 3000 word processing units with a dual printer. Each unit is equipped with both the English and Greek alphabets.

Demonstrations of the new equipment will be held daily during the next few weeks from 10 to 11 a.m. The Center operates from 8:30 a.m. to 4:45 p.m. Monday through Friday.

Remote Cutter Test Successful At PPL

Over two years of research and development effort by Grumman Aerospace Corporation culminated on April 22nd in 1-H building with the first successful test of the TFTR vacuum vessel remote cutter. This was the first time a 360° cut around a cross-sectional segment of the stainless steel vacuum vessel was ever made by a remotely operated device. The remote cutter is the first of its kind in the world, and represents a significant development in PPL's remote maintenance program.

An important part of this program will be the ability to remove a section of the TFTR vacuum vessel, should it become damaged, and replace it with a new section. After tritium is used on TFTR, all maintenance on it, including this task, will have to be done remotely.

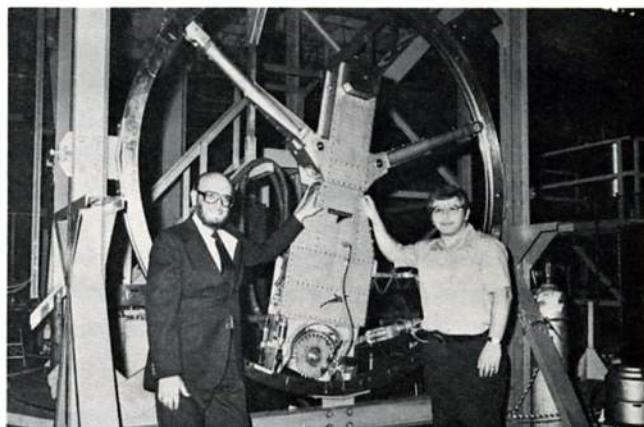
To facilitate remote handling, the TFTR vacuum vessel is comprised of 10 individual segments separated by specially designed parting joints. If removal of a segment of the vacuum vessel were necessary, the remote cutter would be folded and inserted into a port in the vacuum vessel by a manipulator on the outside of the vessel. It would be passed to a second manipulator on the inside, which would position the cutter and extend it to its full size. After the cutter severs the vacuum vessel at one parting joint, it would be moved by the in-vessel manipulator to the other side of the segment, and another cut would be made.

The severed vacuum vessel segment would be removed along with the two corresponding toroidal field coils and the adjoining shear panel to a work stand within the test cell. Here the damaged section of the vacuum vessel would be replaced, also by remotely operated devices. The entire segment would then be placed back on the machine and welded. The remote welding device is presently under development.

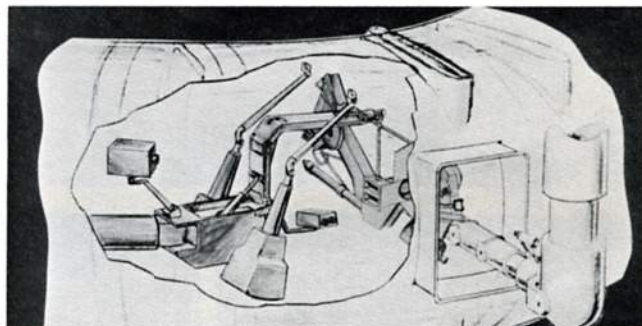
The task of designing the remote cutter for TFTR was made especially difficult because of the weight limitations imposed due to the limits of the manipulators. The entire cutter assembly could weigh no more than 400 pounds, a significant limitation since it is being asked to do the work of a conventional milling machine usually weighing thousands of pounds. A second difficulty imposed on the designers was the relative flexibility of the

vacuum vessel itself. Space limitations were also a major concern.

After removing it from its test stand, the next step in testing the remote cutter will be to install it on the M-3 mock-up, and use it to sever the vacuum vessel there.



Erick Stern (left), Ebasco/Grumman Assistant Project Manager, and Pete Reganato, Grumman Remote Handling and Maintenance Engineer, involved with the recent successful testing, proudly display the TFTR vacuum vessel remote cutter. The device is contained within a section of vacuum vessel mounted on a test stand. The cutter was fabricated at Grumman's Bethpage, N.Y. plant before being delivered to PPL.



This artist's conception shows the outside manipulator passing the remote cutter, which is folded for entry through the vacuum vessel, to the in-vessel manipulator.

Canoeing/Rafting

Anyone interested in canoeing and/or rafting, please call Meg Gilbert on 2036 between 9 a.m. and 10 a.m.

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, Aero Lab, James Forrestal Campus.



Wine and Cheese Party

A Wine and Cheese Party was held in honor of National Secretaries Week last month. Approximately 275 secretaries and their bosses attended the party, held in the C-Site cafeteria. Party-goers consumed 10 pounds of assorted cookies, 12 boxes of assorted crackers, 50 pounds of assorted cheese and most of the wine punch (a mix of wine and ginger ale).

The day wasn't all play, however. Following the welcome from Steve Iverson, Millie Willerton and Larry Holpp passed out awards for completion of the lab's first technical typing course. Certificates went to Dolores Bergmann, Joyce Bitzer, Mary Ann Brown, Grace Emma, Glenda Fendrick, Linda Harmon, Marilyn Hondorp, Mary Kernahan, Ann O'Day, Pattie Pugliesi and Flo Sciortino. Special



certificates were given to course instructors Marianne Weissenburger and Elsie Ferreras. Millie Willerton and Bobbie Cruser (chairwoman of the Secretarial and Office Support Staff Committee) also received certificates for their work in organizing the course.

Numbers were distributed for door prizes by Flo Sciortino, and the lucky numbers were drawn by Steve Iverson, Larry Holpp, Harold Eubank and Dale Meade. Winners of the four hanging basket plants, supplied by Ken Tindall of the C-Site Computer Center, were Marj Barnett, Diane Driver, Becci Bell and Linda Harmon.

The day's festivities were organized by Sara Kent Paterson, with help from Len Thomas, Flo Sciortino, Pam Csira, Bobbie Cruser and Terri Temkin of the cafeteria.



Woman's Bowling Banquet



Women's bowling league trophy winners smile for the camera. On left (l. to r.) are Terri Temkin, Christine Ritter, Sally Connell, Mary Alice Eubank and Sara Paterson. The winning team, the Bouncers (Bobbie Cruser, Ilse Gusciora and Kim Prutky, l. to r.) are pictured at right.

On May 21, 17 women came out of the alleys and into Prospect House for the first annual PPL women's bowling league awards dinner.

Four teams, with four bowlers each, competed for the league crown every Wednesday at Colonial Lanes. This year's first place trophy went to the Bouncers, led by captain Ilse Gusciora with team members Bobbie Cruser, Mary Jane Hollendonner and Kim Prutky. Kim also won high score honors, with a 232 performance.

Placing second in the final standings were the Guttersnipes, with captain Sara Paterson, Mary Alice Eubank, Carol Phillips and Janet Thorpe. The Checkmates, with captain Helen Livernoche and members Sally Connell, Madaline Curtis, Marsha Levin (part-season) and Linda Wurst (part-season) came in third. The Alleycats, captained by Gloria Pollitt and featuring Christine Ritter, Terri Temkin and Millie Willerton, rounded out the field in fourth place.



Although the Alleycats may have finished at the bottom of the standings, their bowlers were tops. Terri Temkin won the trophy for high game (195) and high series (443), while Sara Paterson and Christine Ritter received trophies for upping their averages by 59 and 29 points respectively.

A special award was given to Sally Connell as the league's outstanding substitute. Sally recorded a 137 average over 56 games.

Cash awards accompanied the trophies, according to league president/secretary/treasurer Millie Willerton. Millie will continue as league president, with Bobbie Cruser taking over the reins as secretary and Terri Temkin serving as treasurer.

The league is presently holding registration for next year's teams. Anyone interested in signing up for a team is asked to contact Millie, Bobbie or any team member.

Blairstown Benefit Begins

Raffle chance books for the benefit of the Princeton Education Center at Blairstown have been distributed at the laboratory through ticket chairman Ellie Weed. Prizes being offered include a \$500 "trip of your choice", a New York Fun Weekend worth \$250, a certificate worth \$75 in gasoline and a 10-speed bicycle.

The raffle is part of the fund-raising efforts for the center that will culminate in the Blairstown Potpourri. All funds are used to help support the Outdoor Adventure Program, which provides camping opportunities for youngsters aged 12 through 16 from low and moderate income families in the Princeton area. The program, also known as the Princeton Summer Camps, has been operating since 1909 and draws its staff largely from Princeton

University undergraduates.

The ticket committee is composed of Edna Willis, Sheryl Robas, Ann Golden, Marilyn Ellner, John Anastasio, James Turley, Lucy Lennon and Athene Kan.

Donations are also being accepted for the Potpourri, which will be held September 20 in Jadwin Gym. The Potpourri will feature sale items ranging from books and bicycles, plants and preserves to furniture and food. All donations to the Potpourri, which has raised \$30,000 for the center over the past five years, are tax deductible.

Those interested in obtaining chances or chance books for the raffle should contact Ellie Weed at ext. 2438. To arrange a donation for the Potpourri, contact Ellie or call the Princeton Education Center at Blairstown office at (609) 452-3340.