

BNL Captures 13th R&D 100 Award

For the thirteenth time, BNL has captured an R&D 100 Award in the prestigious, annual contest sponsored by *Research and Development* magazine recognizing the top 100 technological achievements of the year.

Nine physicists and engineers at the National Synchrotron Light Source (NSLS) shared the honor for their coinvention of a real-time harmonic closed-orbit feedback system.

The collaborators are: Li-Hua Yu, Richard Biscardi, John Bittner, Eva Bozoki, John Galayda, Samuel Krinsky, Roman Nawrocky, Om Singh and Gaetano Vignola.

The award was presented to Yu and Krinsky last night, at an R&D 100 awards dinner in Chicago.

The award-winning system was devised for the NSLS x-ray and vacuum ultraviolet (VUV) rings to stabilize the orbit of the electron

beam as it circulates around the synchrotron. A prototype has been installed and tested in the VUV ring.

Though different feedback systems exist at other synchrotron light sources, only BNL's real-time harmonic closed-orbit feedback system at the NSLS corrects the orbit around the entire ring in real time. As a result, the NSLS inventors anticipate that their system will be installed at electron storage rings around the world.

A synchrotron is a large ring in which electrons circulate in a fixed, closed orbit. As the electron beam is bent around the storage ring by magnets, the electrons emit what is called synchrotron radiation — infrared through x-ray light that is useful as a scientific probe.

Though the electron beam's orbit is very stable, it can move by as much as 200 microns, or twice the thickness of a human hair. Though this fluctuation in the beam's position seems small, it does affect the intensity of the synchrotron light that is intercepted by a sample — and, hence, the experimental results that come from using this light.

During the operation of the real-time harmonic closed-orbit feedback system, the electron beam moves up and down only 50 to 60 microns — making it almost 400 percent more stable.

To produce this stability, the system uses four detectors located around the storage ring, collecting signals on beam position. In real time, these position signals are changed into analog signals proportional to the main spatial harmonic components of the orbit distortion. The output signals are then used to correct the orbit around the ring.



Inside the vacuum ultraviolet ring of the National Synchrotron Light Source and before the electronics racks of their real-time harmonic closed-orbit feedback system are all those responsible for its winning a 1989 R&D 100 award: (back, from left) Niels Koudal, Li-Hua Yu, John Bittner, Roman Nawrocky, John Galayda, Om Singh, Richard Biscardi, John Dabrowski, Frank Porfido, (front, from left) Eva Bozoki, Pooran Singh, Samuel Krinsky, Wayne Rambo and Gary Frisbie.

Past Winners From BNL

Since 1984, BNL has renewed its interest in sponsoring entries in the 27-year-old R&D 100 competition sponsored by *Research & Development* magazine. This is as a result of the technology-transfer efforts of BNL's Office Research & Technology Applications.

Here is a list of awards won previously by BNL staff and guests:

1988

- **Toshifumi Sugama, Lawrence Kukacka, Neal Carciello** — zinc-phosphate coating system for reducing corrosion of steel surfaces.
- **John Skaritka and George Ganetis** — instrument for measuring magnetic fields in particle accelerator magnets.
- **Keith Jones, Barry Gordon, Albert Hanson and Joel Pounds, BNL; Mark Rivers, Stephen Sutton and Joseph Smith, University of Chicago** — x-ray microprobe/microscope for determining the chemical composition of geological and biological samples.
- **C.T. Chen and Francesco Sette, AT&T Bell Labs** — Dragon monochromator, a high-resolution, soft x-ray monochromator for beam line U4IR of the vacuum ultraviolet ring of the National Synchrotron Light Source.

1987

- **Ady Herschcovitch** — probe to measure ion temperature and density in plasma devices.
- **John Sutherland** — electronic imaging system for studying DNA.
- **Lucien Wielopolski** — x-ray device for measuring lead in pre-school children.

1986

- **Dimitri Stephani** — triple hybrid preamplifier.
- **Suresh Srivastava** — medical kit for labeling human red blood cells with technetium-99m.

1985

- **Richard Lambrecht** — ocular radioactivity monitor.
- **Dimitri Stephani** — trio of electronic preamplifiers.

1984

- **Richard Lambrecht** — radio-pharmaceutical delivery system.

1969

- **Meyer Steinberg** — concrete polymer composite material.

Brown to Coordinate Women's Programs

Virginia H. Brown has been named by Laboratory Director Nicholas Samios as BNL's fourth Women's Program Coordinator. On October 1, Brown will assume the position from the current Women's Program Coordinator Avril Woodhead.

The position of Women's Program Coordinator was established in 1975 to ensure that the Laboratory develops policies and programs that respond to the special needs of its women employees. As a part of the Employee Relations Program, the Women's Program Coordinator is also another person to whom employees can bring their work-related problems to be resolved as promptly and fairly as possible.

With the change in personnel comes a change in the organizational position: The Women's Program Coordinator will now work through BNL's Affirmative Action Office, reporting to the Assistant to the Director for Affirmative Action, Glenn Jennings.

Ready to Meet the Challenge

"Having the Women's Coordinator as part of the Lab's affirmative action effort was one of my goals since I arrived here in May," says Jennings. "Consolidated within my office, we'll be better able to meet the needs of the women at BNL and the Lab's need for more women in its work force. Ginger and I have a great working relationship, and we are ready to meet the challenge of finding creative approaches to the issues we face."

"We are pulling together all affirmative action matters under Glenn, to

unify our efforts toward the continued diversification of the Lab's work force and the continued enhancement of the opportunities available at Brookhaven for women and minorities," says BNL Deputy Director Martin Blume. "We thank Avril for her excellent service these past two years and look forward to Ginger's input on women's issues."

During her two-year tenure as Women's Program Coordinator, the accomplishment of which Woodhead is most proud came in two parts.

From January to October 1988, she first worked as a member of the Child-Care Initiative Committee, organized by Brookhaven Women in Science (BWIS), which proposed the establishment of an on-site child-care center and associated child-care benefits. Then from November 1988 to this August, she was a member of the administration's Child-Care Center Committee, which established the feasibility of such a center and obtained Department of Energy approval and funding.

Still More to Be Done

"I am delighted about the child-care center, but there's still more to be done to improve women's chances for professional advancement at BNL," says Woodhead. "I enjoyed working with BWIS, Professional Secretaries International [PSI] and unaffiliated women employees toward the collective and individual good of women at the Lab, and I encourage them to continue their efforts with the help of the new Women's Program Coordinator."



Virginia H. Brown

"I thank Avril — during the transition, she has been most helpful by sharing her resources and insight with me," says Brown.

"The work force is changing," reflects Brown. "In particular, the proportion of women is growing. So it is imperative, if BNL is to continue fulfilling its research mission, that it be able to recruit and retain competent women. As both the Laboratory management and its employees are aware that more needs to be done to have women and other components of the workforce fully represented at BNL, I view my appointment as both a challenge and an opportunity."

In addition to being the new Women's Program Coordinator, Brown will continue as Manager of Compensation and Projects in the Personnel Division. "My current Personnel project assignments involve women's issues, so there is continuity between my two positions," Brown explains. "I am interested in issues important to women in all segments of the BNL work force."

As one project, Brown will be looking into family-related policies including such things as the possibility of flexible work hours and job sharing.

Maintaining the Momentum

"I will be exploring model programs at other organizations, to see how some of the suggestions can be implemented at BNL — for the good of both the Lab and its employees," explains Brown. "I would like to follow up on the momentum created by the proposal and approval for a child-care center on site."

For another of Brown's projects, (Continued on page 2)

Service America to Service BNL Cafeteria

First comes a buffet brunch this Sunday, then a lot of new beginnings throughout the week. The next week, things become SPICEy. After that, a week of fitness fare will be followed by a delicious look at apples.

In brief, that's the first month's schedule prepared by Chris Fautas and Ed Gross to phase in the new programs that will be coming to the Cafeteria beginning October 1, as Service America Corporation (SAC) starts a five-year management contract.

Under SAC's management, Fautas will be food service director and Gross will be food service manager for the BNL cafeteria. "Our goal," says Fautas, "is to make this Service America's Long Island flagship."

SAC is a national food-service contractor with over 900 accounts nationwide. Among the cafeterias run by SAC are those at the U.S. House of Representatives and Department of Energy (DOE) headquarters in Washington, D.C. SAC has also run concessions at the Super Bowl and the Rose Bowl.

Fautas has been with SAC for seven years, most recently at AT&T Technology World Headquarters in Berkeley Heights, New Jersey. There, he supervised six cafeterias and the executive dining rooms, and, said BNL Staff Services Manager Ron Manning, "He was famous for his catering events."

Gross is new to SAC but the food-service business is in his blood. "I was born into it," he said. "My dad was an excellent European-trained chef, who started training me at 11 years of age." Previously, Gross was chef manager with Deluxe Caterers in Roslyn, and he remains a food-service consultant for schools throughout Long Island and Westchester.

The qualifications of the management staff were among the factors that led BNL to choose SAC to manage the Cafeteria, at the end of a lengthy selection process that began in January 1989.

As Manning explained, "Federal procurement rules required BNL to go out on bid, as the Marriott Corporation had completed its original five-year contract and maximum five annual renewals. We received seven proposals and the seven members of the Lab's evaluation panel narrowed these down to four finalists, of which Marriott was one. It was a close horse race. After we made our selection in July, it had to be approved by DOE."

"Marriott has run a very good program," said Gross, "and Service America's challenge is to take a very good program and polish it even more. We hope to bring some refreshing concepts to the management of the Lab's Cafeteria."

Focus groups are one such concept. Made up of Cafeteria customers, these groups will zero in on different aspects of Cafeteria services. For example, the planned focus group for the Brookhaven Center — which will tackle the question "How can the Center best serve the needs of its customers?" — will likely include regular employees, representatives from the Lab's user community and participants in BERA activities who often drop in after games.

"This was a strong aspect of SAC's proposal," said Manning, "their willingness to find out customer preferences."

Gross and Fautas are not waiting for focus groups to convene before initiating some other "subtle but nice changes," said Gross. "We'll be paying a great deal of attention to the vending machines and lunch truck, for example, giving those who are restricted to their use more variety from which to choose."

One thing that will not change with SAC are the current prices. Manning explained that the Cafeteria is sub-

Ready for Service America Corporation's opening day at the Cafeteria are Chris Fautas (left) and Ed Gross.

Photos in this issue by Roger Stoutenburgh.



On the Menu for the First Month

Here's how Chris Fautas and Ed Gross plan to introduce Service America Corporation (SAC) at the Cafeteria during October:

• **Opening day brunch** — A buffet brunch will start things off on Sunday, October 1, from 9 a.m. to 2 p.m. Featuring both breakfast and luncheon foods served at a country-club table, the brunch will be repeated every Sunday, if demand warrants it. The brunch will cost \$3.95 for children under 12 years and \$5.95 for everyone else.

• **Week 1: New Beginnings** — To celebrate the beginning of SAC's tenure in the Cafeteria, each day during the week of October 2 foods from a different place with "New" in its name will be featured (see menu), as will special drawings for all employees, with no purchase necessary:

Date	New Beginning	Drawing prize
Mon., Oct. 2	New York deli, introducing the Boars Head products that SAC will use for sandwiches and carvery items, with 10¢ off on each deli sandwich.	Boars Head ham, hat and apron.
Tues., Oct. 3	New Orleans Cajun, accompanied by a Mardi Gras theme	Cajun cookbook.
Wed., Oct. 4	New Jersey garden delights, the subject of a fresh vegetable display.	Two bus tickets to Atlantic City.
Thurs., Oct. 5	New Mexican fiesta, the centerpiece of which will be a self-serve taco bar.	\$25 Cafeteria gift certificate.
Fri., Oct. 6	New England seafarer, featuring a nautical theme, with a seafood bar and chicken for non-seafood eaters.	Desk-sized fish tank.

• **Week 2: SPICE program** — This "Special Program In Culinary Entertainment" is only the first of a series, featuring more monthly themes, weekly and daily specials, employee drawings and prizes. The highlights of this introductory week of SPICE will include a Columbus Day pasta buffet on Monday, October 9; a variety of chili dishes on Tuesday; special sandwiches on Wednesday; personal pizzas on Thursday; and a special salad bar on Friday.

• **Week 3: Fitness fare** — A SAC dietitian will be on hand during the week of October 16 to interact with employees and to introduce this program advocating healthier eating choices.

• **Week 4: National Apple Month** — Seven types of apples will be on display this week and will find their way into many of the foods offered on the menu for the week of October 23.

sided by BNL, and any profit or loss associated with it belongs to the Lab. SAC receives a fee, based on percentage of gross sales.

"The Lab's goal is to keep food prices to a minimum and not to penalize one set of customers to provide food service to another," Manning said. "For example, because of volume, lunch pays its own way, and lunchtime customers are never penalized with higher prices to make up for services that don't pay their own way. Generally, breakfast, dinner and weekend service do not show a profit, but we still want to provide these to the Laboratory community."

There will also be no reduction in services offered at the Cafeteria. During lunch, for example, there will still be soup, frozen yogurt, the salad bar and a lite-line dish offered daily. The hot deli will be reincarnated in two forms: Each day, SAC will offer a "carvery" item as well as a special from the grill. A new grill special

sandwich will also be available each Saturday.

And what if you've got a suggestion about the Cafeteria? "We welcome people's comments," said Fautas. "The door is open all the time. Just come in to the Cafeteria and meet us." You can also call Fautas or Gross with your comments on Ext. 3541, or Manning on Ext. 2525.

— Anita Cohen

AA Meetings

Beginning October 2, Alcoholics Anonymous (AA) meetings will again be held at the Lab every Monday at 5:30 p.m. All employees, others with current BNL identification cards and their spouses are invited to participate. To find out the meeting location, call the Employee Assistance Program, Ext. 2733. Participation in AA is confidential, so you will not be asked to identify yourself when placing the call.

Virginia Brown (cont'd)

she will be exploring such work-environment issues as overcoming sexism, sexual harassment and gender-exclusive language in the workplace.

"These issues involve employees' attitudes and awareness," says Brown. "While difficult, both can be changed through education and training — so I will be working with Mary White, Personnel's Training and Development Administrator, to develop programs for supervisors and employees." Brown also will collaborate with White to bring to the Lab other training programs of interest to women.

"The activism of groups of BNL employees has contributed to the quality of the work life at the Lab," says Brown, "And I see it as part of my job to encourage their participation in developing policies and programs, and their interaction with management." To facilitate their involvement, Brown will establish liaisons with the different groups on site, such as BWIS and PSI.

Recruitment and Retention

Head of a Lab task force on recruitment and retention, Brown will now focus her attention on BNL's problems in recruiting and retaining women. For her third project, she will be identifying new techniques for recruiting women to the Lab, in addition to new ways of making BNL a better workplace for women.

In doing so, Brown will collaborate with the Affirmative Action Office, the Office of Scientific Personnel, the Personnel Division and the Office of Educational Programs, among other BNL offices. "This will provide us an opportunity for cooperation and sharing resources," comments Brown.

She adds, "Brookhaven already has many fair policies and programs in place, but it is a matter of aggressively exercising them in seeking out and keeping qualified women here."

Having taught a course on "Women, Work and Dollars" at the Harriman Graduate School of Policy Management at the State University of New York at Stony Brook, Brown is both academically and practically familiar with the women's special problems within the work force.

After a brief stint at the Lab from 1959-61, Brown returned to BNL in 1977. Continuously employed in Personnel ever since, she became responsible for managing Brookhaven's compensation program in 1981 and has also worked on a number of human-resource administration projects in other areas.

Virginia Brown's office is located in Personnel, Bldg. 185, and she can be reached on Ext. 2874.

Equipment Demo

The following products distributed by Ballou Inc./Circuit Protection and Control will be on display in Berkner Hall on Thursday, October 5, from 10 a.m. to 2 p.m.:

- F.W. Bell — gaussmeters, clamp-on meters, current/power measuring devices, hall generators.
- American Precision Industries Inc. — step motors, linear step-motor actuator, microstep chopper drive, power supplies for step motors, plug-in ramping pulse generator.

Coming Up

Paul Falkowski, an oceanographer in the Department of Applied Science, will deliver the next Brookhaven Lecture on Wednesday, October 11, at 4 p.m. in Berkner Hall. The topic of his lecture will be "Does Photosynthesis in the Ocean Regulate Global Climate?"



AUI Scholarship Alert

Application forms for the 1990 AUI Trustee Scholarships can now be obtained from the Office of Scientific Personnel. Children of regular employees of BNL are eligible to compete for up to twelve AUI scholarships, each for \$2,000 per year, renewable for up to four years of study toward an academic degree.

In addition, up to three scholarships may be awarded to BNL and National Radio Astronomy Observatory (NRAO) employees' children who are Black, Hispanic or Native American. One such scholarship is open to qualified children of employees at BNL and another for children of NRAO employees. One may be awarded to an additional applicant from either institution on a competitive basis.

Qualified applicants are the children of BNL employees who begin regular, full-time or regular, eligible

part-time employment no later than November 15, 1989, and who are employed by BNL at the time the award is announced; or children of retired employees or employees who died while in regular service at the Laboratory. Stepchildren are eligible if the employee regularly claims the child as a dependent for income tax purposes.

Applicants must also be secondary school seniors who will be graduating during the current academic year and entering college by fall 1990.

In addition to filing applications by November 15, 1989, eligible candidates are required to take the Scholastic Aptitude Test, requesting release of their scores to AUI Trustee Scholarships, code number 0442. Scholarship winners will be selected by an independent committee reporting to Sponsored Scholarship Programs, an organization within the Educational Testing Service.

For further information, contact the Office of Scientific Personnel, Bldg. 185A, Ext. 3336.

BERA Members: Exhibit Your Art

The BERA Art Committee will sponsor the 11th BERA Members' Art Exhibit, to be held November 6-9. Employees, retirees and their immediate families may show their pictures and sculpture done in all media. More information and registration forms will appear in next week's Bulletin.

Whiz-Bang Help Wanted for Tours

If you've got a lab you'd like to show off or an idea for an innovative scientific demonstration, OEP wants you — to support the Saturday Science Exploration Program for seventh and eighth grade students.

OEP — the Office of Educational Programs — will run the program for 20 Saturdays between October 14 and May 12, with a different group of about 30 students visiting the Lab each time. In the morning, from 10 a.m. to noon, the students will be divided into three smaller groups to visit an individual BNL lab, see a glassblowing exhibit and tour the Exhibit Center/Science Museum. Each activity will be repeated three times so each group can do everything.

After lunch, the whole group will be treated to two hours of "whiz-bang" science demonstrations by teams of local teachers.

For this year's program, OEP is looking for Laboratory staff who are willing to show the students around their labs, either on a regular basis or as "pinch hitters." OEP is also issuing a Lab-wide challenge for innovative ideas for demonstrations for the afternoon session of next year's program.

Anyone interested in hosting tours or proposing demonstrations should contact Bill Lynch, Ext. 4000, between 12:30 and 4:30 p.m., or Karl Swyler, Ext. 7171.

New Photo Service At BERA Sales Office

Effective Monday, October 2, BERA will begin a new film service association with Employee Photo Service (EPS) of Totowa, New Jersey.

EPS's motto is, "We develop smiling employees." The company plans to provide a reliable, exclusive and comprehensive employee film-developing service, in addition to promotional benefits. A future Bulletin notice will list many of the promotions to be offered by EPS.

On EPS's opening day at the BERA Sales Office in Berkner Hall, the BNL account representative and the company president will be on hand from 11 a.m. to 2 p.m. to answer questions and to provide, perhaps, a few surprises.

Volleyball

Captains' Meeting

The second Volleyball League captains' meeting will be held on Wednesday, October 4, at noon, in Room 300, third floor, Chemistry, Bldg. 555. Discussion and voting on the local rules and constitution will take place at this time. Captains or team representatives must attend.

Women Needed

The Volleyball League is desperately looking for women to play in League II, a mixed league. Anyone interested in playing in the league should contact either Karen Savino, Ext. 3513, or Kathy Barkigia, Ext. 7661.

Islanders Tickets On Sale Next Week

Tickets for the Islanders' regular 1989-90 hockey season will go on sale at the BERA Sales Office in Berkner Hall on Thursday, October 5, at 8 a.m. BERA's four seats for the home games at Nassau Coliseum are located in Section 321A. Tickets are priced at a special reduced rate.

The following limitations apply to ticket purchases:

- Tickets will be sold only in pairs.
- During the initial sale, tickets for the Islanders/Rangers games will be limited to two tickets per employee per game.
- The BERA Sales Office will not give any refunds or make any ticket exchanges after a sale is completed.

In the event that the Islanders move into the NHL playoff and championship games next spring, only those employees who supported the BERA ticket-service program during the regular season will be eligible for entry in a drawing for home-game tickets.

Social Club

The BNL Social Club is taking reservations for the following events at the Nassau Coliseum:

- **Ice Skating** - Sunday, October 15, 7:30 p.m., Torvill & Dean and the Russian All-Stars, \$20 each.
- **Wrestling** - Friday, October 20, 8 p.m., World Wrestling Federation, featuring Hulk Hogan, \$13 each, 2nd tier.
- **Drag Racing** - Saturday, November 18, 8 p.m., U.S. Hot Rod Mud-Bog Drag-Racing Championships, \$15 each.
- **Walt Disney** - Sunday, December 3, 3 p.m., Walt Disney's World on Ice — Peter Pan, \$13.50 each.

Call Doris Terry, Ext. 7610, for reservations.

Hospitality News

The Tuesday morning get-together for October will be held on the *second* Tuesday of the month, October 10, at 9:30 a.m., in the lobby of the Brookhaven Center.

Marion Davis-Parzen, chair of Women's International League for Peace and Freedom, Suffolk County, will speak on "Sexism in the U.S. and the World: How Does It Affect Us?"

Spouses of Laboratory employees and visitors are welcome. Coffee, tea, and danish will be served. Please bring the children; babysitting will be provided free of charge.

Reminder: The trip to the Bronx Zoo has been rescheduled for October 29, 9 a.m.

Contest!

BNL's Research Library is implementing an on-line catalog of books, journals and BNL reports located on site.

Help the library pick a name for this catalog . . .

and

. . . win an evening for two at the movies!

The winning entry will be judged on a combination of originality and the shortest number of keystrokes.

INFO? SCOPE? Keep those ideas coming and send them to: Betsy Schwartz, Bldg. 477A by Wednesday, November 1.

Bowling

Red/Green League

E. Sperry IV had a 220, C. Bohnenblusch 214, R. Jones 209, C. Bachsmith 206, F. Griswold 206, K. Asselta 203, H. Dawson 202.

White League

Caryl MacDougall had a 218, Ralph Vega converted the 4/10 split.

Purple League

Carl Murray had a 237, Pat Manzella 211, Frank Gaetan 210, Ed Sperry 206, Linda Di Pierro 205, Mickey Haller 183, Jeannette Thiede 182.

Pink League

R. Rosati had a 187, M. Apelskog 185, D. Keating 175/167, M. Reynolds 170, P. Meehan 169, P. Jencius 167/160.

Female bowlers are desperately needed for the Tuesday night Pink League in Port Jefferson. Call Donna Cunningham, Ext. 4599, for more information.

Cafeteria Menu

Sunday, October 1

Sunday Brunch: 9 a.m. to 2 p.m.

Monday, October 2

New York Deli Special

Soup: Manhattan clam chowder	(cup)	.75
	(bowl)	.95
Entree: N.Y. strip steak		3.10
Entree: Fettucini Alfredo		3.00
Lite-line: Broiled sole amandine		3.10
Carvery: Hot corned beef sandwich		2.85
Grill special: Pastrami Reuben		2.85

Tuesday, October 3

New Orleans Cajun Day

Soup: Chicken gumbo	(cup)	.75
	(bowl)	.95
Entree: Louisiana jambalaya		3.10
Entree: Beef Creole w/beans & rice		3.10
Lite-line: Cajun trout		3.10
Carvery: Hot pastrami sandwich		2.85
Grill special: Monte Cristo		2.25

Wednesday, October 4

New Jersey Garden Delights

Soup: Fresh vegetable	(cup)	.75
	(bowl)	.95
Entree: Stuffed peppers		3.10
Entree: Eggplant Parmesan w/1 veg.		3.10
Lite-line: Vegetable lasagna		3.10
Carvery: Fresh beef brisket sandwich		2.85
Grill special: Tomato & cheese		1.45

Thursday, October 5

New Mexico Fiesta

Special: Make your own taco	(each)	.90
Soup: Lentil	(cup)	.75
	(bowl)	.95
Entree: Chicken fajitas		3.10
Entree: Burrito olé w/1 veg.		3.10
Lite-line: Chicken à la Pierre w/1 veg.		3.10
Carvery: Hot turkey sandwich w/gravy & cranberry sauce		2.85
Grill special: Spanish omelet w/french fries		3.00

Friday, October 6

New England Seafarer

Special: Seafood bar		
Soup: New England clam chowder	(cup)	.75
	(bowl)	.95
Entree: Fisherman's platter		3.10
Entree: Baked scrod fillet w/Mornay sauce		3.10
Lite-line: Broiled chicken w/1 veg.		3.10
Carvery: Hot roast beef sandwich w/gravy		2.85
Grill special: Whaler sandwich		1.85

Saturday, October 7

Open - 9 a.m. to 2 p.m.

Grill special: Philly steak sandwich		2.95
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Enchanted Evening Ahead

You may not see a stranger across the crowded room at the BERA Special Event Dinner-Dance and Theater on Saturday, October 21 — but you will be sure to see many friends, all set to enjoy the evening ahead.

You can reserve your own table with a chosen group, or join with other BNL'ers at a large table, if you prefer. Plans for the evening include:

- **Fashion show** — 6:30 p.m., featuring the fashions of Sophisticated Lady, a Patchogue shop.
- **Dinner** — 6:30 p.m., your choice of chicken cordon bleu or prime rib.
- **Theater** — 9 p.m., musical numbers and skits performed by BNL's Theater Group and others.
- **Viennese table** — and coffee or tea, after the theater.
- **Dancing** — until 2 a.m., to an "oldies" band in the Cafeteria or deejay music in Rooms A & B.

The festivities will be accompanied by a cash bar. Tickets are still



available, at \$27.50 per person, on sale on a first-come, first-served basis from 11 a.m. to 1 p.m., Thursdays and Fridays at the Cafeteria. More information can be obtained from BERA Special Events Committee chair Rosalie Piccione, Ext. 3160, or member Betty Pergan, Ext. 2937.

BROOKHAVEN BULLETIN

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Note to Employees:

Attendance at lectures, meetings and other special programs held during normal working hours is subject to supervisory concurrence.

Classified Advertisements

Placement Notices

The Laboratory's placement policy is to select the best-qualified candidate for an available position, with consideration given to candidates in the following order of priority: (1) present employees within the department and/or appropriate bargaining unit, with preference to those within the immediate work group; (2) present employees within the Laboratory as a whole; and (3) outside applicants. In keeping with the Affirmative Action plan, selection decisions are made without regard to age, race, color, religion, national origin, sex, handicap or veteran status.

Each week, the Personnel Office lists new personnel placement requisitions. The purpose of these listings is, first, to provide open placement information on all non-scientific staff positions; second, to give employees an opportunity to request consideration for themselves through Personnel; and, finally, for general recruiting purposes. Because of the priority preference policy stated above, each listing does not necessarily represent an opportunity for all candidates. As a guide to readers, the listings are grouped according to the anticipated area of recruitment.

Except when operational needs require otherwise, positions will remain open for one week following publication date.

For further information regarding a placement listing, contact the Employment Manager, Ext. 2882.

The vacancies listed below have been exempted by the Director's Office from the current freeze on open requisitions.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees only.

4110. INSULATION WORKER - Under general supervision, performs installation and removal of insulation and protective coverings about piping, ductwork, fixtures and devices as required. Performs limited removal, cleanup, and disposal of asbestos insulation in accordance with applicable environmental control standards pursuant to laws and regulations governing BNL. Will be trained and must be certified as asbestos abatement worker to standards as adopted for such work by New York State. Plant Engineering Division.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside applicants.

4111. REFRIGERATION AND A/C ENGINEER - Requires substantial experience troubleshooting, repairing, installing and operating commercial/industrial air-conditioning and refrigeration equipment, including steam absorption, centrifugal and helical-screw refrigeration machines. Successful completion of refrigeration and A/C apprenticeship program or related course work is highly desirable. Must be able to work shifts as required. Plant Engineering Division.

Motor Vehicles & Supplies

88 MITSUBISHI PRECIS - 2-dr. hatchback, 4-spd., 15k mi., white, am/fm cass., \$4,600 neg. Rich, Ext. 3753.

88 NISSAN PATHFINDER XE-V6 - 4x4, 8,700 mi., mint, 5-spd., p/s, am/fm, 15" tires, asking \$17,000. Phil, 698-5975 after 6 p.m.

87 MUSTANG LX - hatchback, 25k mi., 5-spd., 4-cyl., p/s, p/b, cruise, p/l, stereo, sunroof, red/grey. Kathy, 249-8012.

87 TRANS AM - all options, flame red, 30k mi., \$9,500 neg. Vinny, 732-2427.

86 FORD TAURUS LX - 2.2L, 5-spd., 6-cyl., p/w, p/l, digital dash, excel. cond., \$8,000. Scott, 563-2323.

86 HONDA ACCORD - 4-dr., asking \$6,000. 744-2685.

85 CUTLASS SUPREME BROUGHAM - 45k mi., loaded, orig. owner, 2-dr., asking \$6,300. Michael, 874-2682.

84 MITSUBISHI CONQUEST - 5-spd., a/c, leather int., new tires, brakes, am/fm cass., cruise. Mike, 878-0842 after 3 p.m., leave message.

84 OLDS OMEGA - 65k mi., 2-dr., p/s, p/b, a/c, am/fm cass., excel. cond., \$3,500. Jim, Ext. 4606 or 654-5049.

84 PEUGEOT TURBO - diesel, 38 mpg, silver, stereo, a/c, alarm, p/b, p/s, garaged, excel. cond., 63k mi., \$4,200 neg. Ed, Ext. 5385 or 765-4147.

84 DODGE OMNI - 2.2L, 5-spd., stereo, runs well, 110k mi., \$950 neg. Cliff, Ext. 4713 or 563-8931.

83 TOYOTA CRESSIDA - wagon, loaded, clean, 72k mi., \$400. 473-6570 after 7 p.m.

83 PONTIAC SE2000 - p/s, p/b, a/c, a/t, sporty, 78k mi., good cond., asking \$2,800. Xuan, Ext. 3677.

82 MUSTANG - 4-cyl., 4-spd., sunroof, hatchback, good cond., \$1,700. Glenn, 289-0413.

82 TOYOTA TERCEL - 2-dr. sedan, 4-spd., 4wd, blue, very good cond., \$1,300. Ext. 2733 or 878-8491.

82 TOYOTA COROLLA - p/s, p/b, a/c, stereo cass., sunroof, good cond., asking \$2,500. Sahn, Ext. 3175.

81 DODGE DIPLOMAT - new exhaust, rebuilt trans., a/c, p/s, p/b, excel. tires, needs header, \$700. Dave, Ext. 3093 or 281-0042 eves.

81 BUICK REGAL - Limited, light green, all power, cruise, runs well, V-6, \$2,500. Heidi, 281-7873.

80 CHEVY CITATION - excellent running cond., 4-dr., a/t, p/b, p/s, am/fm stereo, tape deck, \$1,190 neg. Ext. 5076 or 744-4615.

79 FIREBIRD - good body, engine & tires, \$1,900. Bill, Ext. 2807 or 281-0557.

79 MUSTANG - black, new brakes & tires, 4-spd., runs well, some body work, good paint & int., \$650. Emil, Ext. 4289.

79 HONDA ACCORD - hatchback, runs well, good cond., am/fm cass., \$800. Rick, Ext. 3932.

79 FORD F100 TRUCK - V-8, a/t, 71k mi., w/cap, many extras, 2-tone blue, \$2,400. 475-8219.

78 DODGE COLT - new muffler, water pump, fuel pump, runs, reliable transportation, \$125. 281-0250, leave message.

78 HONDA TWINSTAR - 180cc, new battery & tires, excel. cond. Nancy, Ext. 5460.

78 PONTIAC FIREBIRD - A1 motor, very clean in/out, mint cond., must see, asking \$2,500. Ext. 5105 or 286-1615.

78 FIREBIRD - 305 V-8, 4-spd., T-tops, 67k mi., 2nd owner, new clutch, rear spoiler, excel. cond. in/out, \$2,800 neg. Ext. 3334 or 744-2404.

78 CORVETTE SILVER ANNIVERSARY - low miles, mint cond., \$11,000. 286-0372.

77 CHRYSLER - no rust or dents, \$300 neg. Bill, 475-8710.

77 LINCOLN CONTINENTAL - needs body work, \$150. 821-0250.

76 FORD GRANADA - runs well, \$555. Gilles, Ext. 3790.

76 KAWASAKI - dirt/street bike, 250cc, 765 orig. mi., needs battery, excel. cond., runs well. Mike, 878-0842 after 3 p.m.

76 YANKEE CAR - Ford Maverick, runs well, Yankee pinstripes/embles, a/c, good tires, am/fm cass., asking \$300. Danny, 286-1278.

76 MAZDA - RX3 rotary, 30k mi., on new engine, headers, new exhaust, runs well, needs some work, \$500. Charlie, Ext. 4447.

75 FORD F100 TRUCK - runs well, bed & body rust, 4-spd. on floor, 302 cu. in. V8, \$300 neg. Bill, Ext. 4312.

74 MERCURY COUGAR - 350 V8, \$150. 821-0250.

74 CHEVROLET G-10 VAN - 350 V8, a/t, f/r heat & a/c, p/b, stereo, orig. owner, clean, \$1,500. Jim, Ext. 5439 or 434-3342.

73 FORD GRAND TORINO - 60k mi., V8, a/t, p/s, p/b, new tires & battery, excel. cond., \$950. Charles, 499-7912.

70 CHRYSLER NEWPORT - 4-dr., a/c, a/t, p/w, radio, good cond., best offer. Charlie, 475-1683.

70 PLYMOUTH FURY - 70k mi. on rebuilt trans., new brakes, runs well, \$400. Frank, Ext. 2343 or 732-5950.

FORD 351 - Cleveland engine not complete, needs work, free. Cliff, Ext. 3536, Thurs., or 472-2854.

WIRE WHEEL SET - for GM 14", new, \$90. Ext. 2462.

BODY PARTS - for 80 & 86 Ford Bronco, roof pillars, sides, \$30/pair. Dan, Ext. 4987 or 698-7322.

UTILITY BOX - Tough box, for small pickups, excel. cond., asking \$55. Jack, Ext. 4411.

TIRES - 4, Uniroyal Tiger Paw, mud & snow, P195/75R15, \$80/four. Eric, Ext. 5231.

VAN PARTS - conversion sink, refrig., 12V/110V, 2 bench seats, convert to bed, like new, reasonable. Charlie, Ext. 3897.

TIRES - 2, Firestone, 155-8-R13, mounted on Datsun rims, good rubber, \$30/both. Gary, Ext. 5786.

VOLVO RIMS - 2, 15", \$20. Bill, Ext. 3369 or 929-6442.

PINTO ENGINE - 2000cc, runs well, \$100. 929-3209.

Boats & Marine Supplies

29' ULRICHSON - flybridge, FWC, 327, runs well, sleeps 5, galley w/range & oven, elec. head, excel. cond., must sell, asking \$3,500. Jack, 732-2754.

22' CATALINA SAILBOAT - 3 sails, trailer & motor, good cond., asking \$4,500. 929-8912.

17' ARISTOCRAFT - fiberglass, 60-h.p. Merc cruiser, I/O, recently rebuilt, w/trailer, ready to go, \$1,575. Mark, Ext. 2599.

15' SILVERLINE - 1969, 33-h.p. Johnson, rebuilt, new chairs, controls, teleflex steering, trailer, asking \$800. Pat, Ext. 4500 or 744-2017.

13' BOSTON WHALER - motor, trailer, accessories, very good cond., \$2,600. Richard, 821-9296 after 5 p.m.

ENGINE - Johnson 35 h.p., 1978, long shaft, generator, new pump, new power pack. Bob, Ext. 5286.

87 KAWASAKI 550 JET SKI - w/87 trailer, less than 30 hrs., w/flush kit, excel. cond., \$2,700 or best offer. 395-1554.

Tools, House & Garden

WOOD-BURNING STOVES - 2, like new, \$125/each. 286-0372.

COAL STOVE - Surdiac Gctha 511, good cond., 44,000 Btu/hr. \$200. Ext. 3334 or 744-2404.

SHREDDER/CHIPPER - Kemp Yardtamer w/clutch & new bar grate, like new, excel. for fall cleanup, \$495. Pete, Ext. 7955 or 929-3847.

WOOD-BURNING STOVE - Penn, airtight, excel., \$100; Sears chainsaw, very good cond., \$50. 281-8031.

HOLLY TREE - 8', you dig, \$20. 727-3145.

LAWN MOWER - Wheeler, 3 1/2 h.p. Briggs & Stratton, 21" cut, rear bagger, \$85; Lawnboy lawn mow parts. Dan, Ext. 4987 or 698-7322.

BOY SCOUT TRAIL CHEF - custom-made sides, opens into table, removable legs for transporting. 744-3069.

STORM DOORS - brown, one 33 1/2" x 79 1/2", one 30 1/2" x 79 1/2", \$25/each. Bill, 472-4684 after 6 p.m.

SOLAR POOL COVER - for 12'x18' pool, used one time, \$20. Pete, Ext. 4100.

KEROSENE HEATER - Hamai, round convection, 5,000 Btu, w/5 gallon can, excel. cond., \$30. Bill, Ext. 7625 or 732-9102.

Sports, Hobbies & Pets

TENNIS RACKET - Prince Spectrum Comp. 110, just restrung, \$50. Joe, Ext. 4139.

EXERCISE BIKE - DP Airgometer, dual action, brand-new, \$225. 475-2509.

HOCKEY EQUIPMENT - \$300 or best offer; 30 lb. rec. bow w/quiver & target arrows, beginners, asking \$100. Ext. 2914 or 286-3742 eves/wknds.

EXERCISE BIKE - like new, needs speedometer cable, \$60. Sonny, Ext. 5265.

GOLDEN RETRIEVER PUPS - AKC papers coming, 1 male, 3 females, 9 weeks old, \$200. Tirre, Ext. 4638 or 281-0360.

PIANO - Lester Betsy Ross, spinet, w/bench, excel. cond., \$700. Tony, Ext. 3658 or 929-4903 after 6 p.m.

WOODEN DOLL HOUSE - 2-story, 6 rooms, misc. furniture, \$28; basketball backboard, \$30. Jack, Ext. 4447 or 744-3919 after 5 p.m.

GOLF CLUBS - Cannon Advanced, graphite driver, 3 through 9 irons, pw, sw, used 6 times, \$275. 265-6238.

CAMERA - Kodak, fixed focus, 35mm, electronic flash, almost new, \$40; Wilson tennis racket, mid-size, almost new, \$40. Taha, Ext. 4465, lunchtime.

CLARINETS - Wurlitzer, student model, \$125; Signet \$250. Jim, Ext. 3372 or 821-0250.

VIOLIN - Mudan Stradivarius, full size, rosin case, w/tuner, excel. cond., \$65. Bill, Ext. 7625 or 732-9102 after 6 p.m.

Audio, Video & Computer

TELEVISION - Zenith, 25", color, needs work, nice cabinet, \$20. 281-7844 eves.

SCANNER - Bearcat 100, hand-held, VHF-UHF, 16-channel, w/charger, asking \$125. 286-0237.

PRINTER - AJ-301, smart daisy wheel terminal, printer not working, needs work, trade or sell. Cadwell, Ext. 7934 or 744-2816.

SPINNING CASSETTE RACK - 8-track cassette adaptor; 8mm movie editor reviewer, like new. Charlie, Ext. 3897.

COMPUTER - IBM PC Jr., w/printer, 640k memory, color display, software, good for word processing, like new, excel. cond., \$525. Ext. 4530.

COMPACT DISC PLAYER - Yamaha model CD2, remote control, fully programmable, many other features, excel. cond., \$125. Ext. 4153 or 732-5829.

Miscellaneous

CLOTHES - baby & maternity, many never worn; infant bathtub, \$6. Annie, 331-7350.

SOUP - seafood bisque, homemade, thick, delicious, \$12/quart. Ruth Anne, Ext. 7774 or 929-6235.

BABY CLOTHES - 2 snowsuits, girl's, size 18 mo., both pink, excel. cond., buy 1 or both. Barbara, 423-8384 eves.

AIRLINE TICKET - American Airlines, one way to San Jose, CA, Monday, Oct. 2, 2:59 p.m., best offer. Ext. 2683 or 751-2469.

ELECTRIC TEAPOT - 6-cup capacity, good cond., \$5; kitchen utensils, alum. & plastic, 10 pieces, \$30. Taha, Ext. 4465, lunchtime.

TABLE CLOTH - oval, flowered, \$6; 3 fish tanks, pumps, glass, \$40; large wall clock, \$30. Kathy, 744-2203.

Yard & Garage Sales

RIDGE - wood & coal stoves, kids' clothes, more, 50 Ridge Haven Drive, Sat. & Sun., Sept. 30 & Oct. 1. Paul, Ext. 7135.

NORTH PATCHOGUE - moving-out-of-state sale, reasonable offers accepted, Sept. 30 & Oct. 1, 10-4, 35 Prince Street. 289-4119.

CENTER MORICHES - 4-family yard sale, 6 Cedar St., Sat., Sept. 30, 9 a.m.-2 p.m.

MASTIC - 4-family yard sale, Sept. 30-Oct. 1, 10 a.m.-4 p.m., 42 Edgewood St. 399-3381.

Free

REFRIGERATOR - side-by-side, GE, works well, you haul. 472-1302.

DOG - 10-mo.-old Shepherd-Lab mix, wonderful family dog, needs fenced yard. 360-3803.

KITTEN - all black, needs loving home. JoAnn, Ext. 4170 or 689-7963.

Lost & Found

LOST - print *Sioux Rainmakers* by Rance Hood, from Bldg. 475, approx. 25"x40", of sentimental value. Graves, Ext. 4967.

Real Estate

Real Estate advertised for sale or rent is available without regard to the race, color, creed, sex or national origin of the applicant.

For Rent

CENTER MORICHES - 2-bdrm. apt., 1/r, d/r, first floor, d/w, f/p, priv. ent., \$750 + sec. 878-0897.

EAST SETAUKET - 4 bdrms., 1 1/2 baths, fully furnished & equipped, 3 Village Schools, walk to W. M. High School, \$1,200/mo., immed. occupancy. Ben-Zvi, Ext. 5143 or 473-4938.

PORT JEFFERSON VILLAGE - 4-5 bdrms., 1/r w/fp, d/r, eik, family, study, 2 1/2 baths, cac, 2-car gar., walk to harbor & village. 331-3846 eves.

QUOGUE - furnished studio, 1/r-bdrm. combo, kitchen, bath, w/w, winter rental, \$575/mo. includes utils., 1 mo. security. Pat or Barb, Ext. 4960 or 288-5576.

ROCKY POINT - large studio apt., cable, 15-20 min. from Lab, near shopping plaza, \$400/mo. includes util., avail. immed., 1 mo. sec. 744-9089, leave message.

ROCKY POINT - 4/5 bdrms., 2 1/2 baths, eik, fenced yard, cac, pvt. beach, \$1,050. 821-2375.

RONKONKOMA - 2-bdrm. condo, all appl., w/w, a/c, patio, recreation facilities, near LIRR, avail. Nov 1, \$900/mo. incl. util. Ext. 4525 or 981-4696.

SHIRLEY - 3-bdrm. ranch, eik, bath, gar., furnished, 1/2 acre, \$900/mo. + utils. 473-6432.

SHIRLEY - 1-bdrm. apt., 1/r, eik, full bath, w/w, for single working adult, no pets, \$575 + sec., incl. utilities, avail. 10/1. 281-1840 after 6 p.m.

NORTH SHIRLEY - unfurn. 1-bdrm. apt., w/w, full bath, 1/r-kitch. combo, 3 miles to Lab, \$600/mo. incl. utilities & cable. 395-9112.

YAPHANK - restored Victorian house, large, tree property, 4-bdrms., 10 min. to Lab, avail. Oct. 1, \$950/mo. 924-4872, 924-3066, Ext. 4342.

For Sale

MASTIC - 3-bdrm. ranch, 1/4 acre, 1 1/2 baths, den, fin. bsmt., deck, appl., house fan, 3 ceiling fans, shed, fence, near school, shopping, 15 min. to Lab, ask. \$115,000. 265-2366 after 6 p.m. wknds.

MASTIC BEACH - 3 bdrm. ranch on 80'x100' w/garage & Florida rm., low taxes, financing avail., city water, rent while buying. Sue, Ext. 7235 or 395-3529.

MEDFORD - 5 bdrms., 2 baths, country kitchen, 1/r, den + legal 1 bdrm. apt., close to shopping and Lab, \$150,000. Bobbie, Ext. 2456 or 654-1993 after 5:30 p.m.

MIDDLE ISLAND - 3-bdrm. ranch, 18'x24' great room, 1/r w/fp, d/r, eik, 1 1/2 baths, skylights, i/g pool, sprinklers, deck, more, 5 min. to Lab, mint, \$152,900. 924-8426 eves.

MIDDLE ISLAND - Lake Pointe, 2 bdrm., 1/r-d/r, cac, gas heat, wood deck, pool, tennis courts, club house, asking \$81,000, neg. Bob, 924-7316.

MIDDLE ISLAND - Coventry Manor, 3-bdrm. townhouse, 2 baths, kit., 1/r, d/r, laundry rm., 5 app., cac, pool, tennis, encl. patio, \$106,000. Rosalie, Ext. 3160 or 289-5704 after 5:30 p.m.

PORT JEFFERSON VILLAGE - 9 rooms, 1/2 acre cul-de-sac, 2 1/2 baths, cac, 2-gar., priv. beach & club, walk to village & harbor, reduced \$26,000. 331-3846 eves.

ROCKY POINT - 3-bdrm. high ranch, 1/r w/brick fp, cath. ceiling, d/r, large kit., 2 baths, bsmt., cac, deck, 2-car gar. w/elec. doors, beach rights, 0.34 acre, \$162,900. Kochman, 744-1057.

ROCKY POINT - 4-bdrm. Cape, 1/r, large eik, 1 bath, new appl., wood floors, full bsmt., new cedar siding, deck, 100'x100' lot, beach rights, \$129,990, eves., after 7 p.m. Jay 369-8374.

ROCKY POINT - 2 bdrm., encl. porch, new OHW, 60'x100' lot, low taxes, \$97,000. 821-0379.

SELDEN - Village in the Woods, one bdrm. deluxe co-op, upper unit, eik, d/r, 1/r, pvt. balcony, asking \$75,000. 696-5386.

SETAUKET - 7 rm., 2 baths, custom-designed & built by technical expert owner for own use, 0.86 acre, rare plants, deeded beach rights. 473-4666.

SPEONK/WESTHAMPTON BEACH - 2-bdrm. townhouse, 1 1/2 baths, five appliances, swimming pool, cac, 20 min. to Lab., \$850/mo. or \$149,500. Rich, Ext. 4834.

STONY BROOK - H-section near university, 3-bdrm. Colonial, 1/r, d/r, den, 2 1/2 baths, eik, 2-car gar., 1/3 acres, cul-de-sac, \$149,000. 424-6487 after 5 p.m. or weekends.

Wanted

HOUSEMATE - share house, Brookhaven Hamlet w/2 professionals, 4 bdrms., wooded, convenient to Lab, \$350/mo. incl. all. Sidney, 286-4028.

HOUSEMATE - share 3-bdrm. house, East Setauket, 1/r w/fp, priv. ent., gar., yard, w/d, \$415/mo. + 1/3 util. Joe, Ext. 2215; Joe or Chris 689-7719.

HOUSEMATE - to share 3 bdrm. furn. house in Mastic Beach, w/absent tenant, 15 min. from Lab, \$480. Daniel, 281-4372 or 212-777-3449.