BROOKHAVEN BULLETIN

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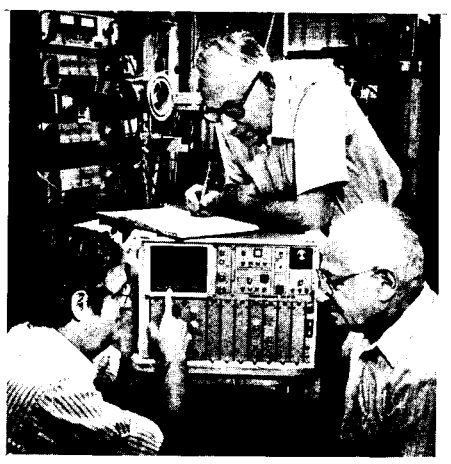
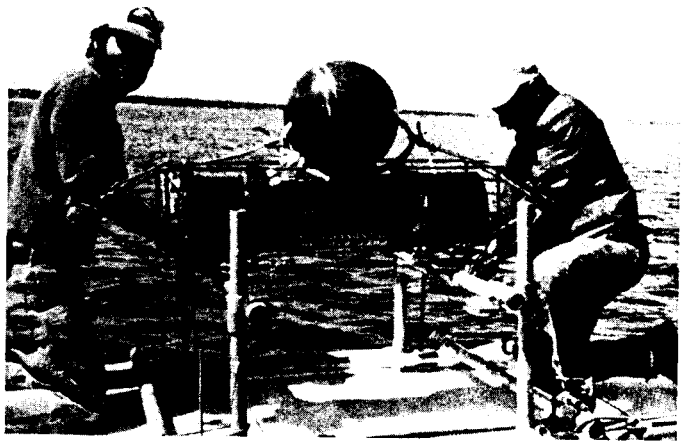
BROOKHAVEN NATIONAL LABORATORY

In the next decade, BNL employees will be able to send their preschool children to an on-site child-care center. Approved by the U.S. Department of Energy (DOE) last summer and planned for completion in fiscal year 1990, this will be the first such facility built by DOE nationwide. Shown here in the field behind the Danish House where the center will be erected are some members of BNL's Child-Care Center Committee: (from left) Renee Flack, Committee Chairman Henry Grahn, Anne Baittinger, Michael Bebon, Susan Foster, Mark Israel and Avril Woodhead. Other committee members were M. Sue Davis, Franklin Federmann, Michael Goldman, Peter Haustein and Mary-Faith Healey.

Fusion — induced by cluster-ion impact at surprisingly low energy — was first achieved at BNL in April by chemists (from left) Robert Beuhler, Lewis Friedman and Gerhart Friedlander, who described their work in the September 18 issue of *Physical Review Letters*. Here, in their Chemistry Department lab, they observe the results of the impact of a cluster-ion beam of heavy water molecules on a deuterium-containing target.





During the last decade, a "brown tide" of algae caused the scallops to disappear from Long Island's Peconic Bay. To help Suffolk County better understand the Peconic Bay and related waters, BNL loaned the county two fluorometers. Here, Creighton Wirick (left) and Skip Medeiros, both of the Oceanographic Sciences Division of BNL's Department of Applied Science, secure one of the fluorometers on a cradle, before mooring it six feet down. The data collected by these detectors from April to August showed that the brown tide is gone — but it may take well into the next decade before the scallops flourish again in the Peconic Bay.

High Points — 1989

On the verge of a new decade, BNL has much to look forward to — thanks in large measure to continuing progress made this year in many areas.

The Lab can look forward to RHIC — BNL's proposed Relativistic Heavy Ion Collider. This summer, RHIC was reaffirmed as the highest national priority for new construction by the Nuclear Science Advisory Committee of the U.S. Department of Energy (DOE). With DOE support, it is anticipated that funding for RHIC construction will be proposed to Congress in the President's 1991 budget.

The 1990s promise an even higher intensity route to new physics at BNL's Alternating Gradient Synchrotron (AGS), with the timely completion of the Booster. When on line in 1991, the Booster will greatly increase the intensity of protons for the AGS high energy physics program and enable the AGS to accelerate the full range of heavy ions produced at the Tandem Van de Graaff. By the end of 1989, Booster construction was proceeding on schedule, with the completion of 37 dipole magnet cores and the injection line for transporting protons to the Booster from the AGS's linear accelerator, or linac.

With the commissioning of the final two of seven insertion devices and the last 26 beam lines out of 97, the National Synchrotron Light Source completed its Phase II upgrade last year. As 1,100 users from other institutions plus 200 from BNL can testify, the NSLS came of age in 1989 and is ready for the next generation of science in the 90s.

For studies of new radiation sources and advanced accelerator concepts, the Accelerator Test Facility (ATF) of BNL's Center for Accelerator Physics is slated for initial operation this year. Towards the production of a low-emittance 50-million-electron-volt beam, two milestones were passed in 1989: After a high-powered, very short-pulsed solid-state laser was installed last spring, it was used to produce the first beam of photoejected electrons.

A participant in the research and development of the national accelerator for the 1990s and beyond, BNL will continue its collaboration on the 9,600 superconducting magnets for the Superconducting Super Collider, which became a line item in the 1989 federal budget.

In June, ground was broken for the Radiation Therapy Facility at the Lab's Medical Research Center. Designed to provide radiation treatment for Suffolk County cancer patients into the new decade, the facility is a collaboration between BNL and the State University of New York at Stony Brook.

BNL's life sciences programs were injected with new funds last July, when Medical and Biology Department scientists captured four out of 17 grants awarded by DOE under a new special grant program for nuclear medicine research. Supported for three to five years, the projects will develop new radioactive pharmaceuticals for diagnosis and treatment of disease, test the clinical feasibility of such drugs, and develop noninvasive organ-imaging techniques.

As 1989 ended, BNL unfortunately was faced with the realities of a $5 million cut in AGS funding and the possibility of Gramm-Rudman reductions over the entire 1990 budget. Nonetheless, the Laboratory expects to meet these budgetary challenges while moving forward into another exciting decade of forefront research.

The June ground breaking for the Radiation Therapy Facility at BNL marked the start of a new cooperative effort between the Lab and the State University of New York at Stony Brook. Working together are: (from left) Jordan Cohen, Dean of the School of Medicine at Stony Brook; Marvin Kuschner, Chairman of the Board of Trustees of Associated Universities, Inc.; Richard Setlow, BNL's Associate Director for Life Science; and BNL Director Nicholas Samios.

Each summer, BNL welcomes students through programs overseen by the Office of Educational Programs. This year, high school science teachers came to the Lab for the first annual Teacher Research Associate Program. Another new program was the Nuclear Chemistry Summer School for college chemistry majors. Repeated programs included: the Health Physics Summer Training Program for graduate students; the High School Honors Science Program for juniors and seniors; the Summer Student Program for college undergraduates; and the Summer Apprenticeship Research Program for Minorities — ninth and tenth graders who produced the bounty shown above in a hydroponic garden, under the guidance of Renee Flack (left), Affirmative Action Office.

Ten years wiser — that's what Brookhaven Women in Science (BWIS) found itself this fall, when it celebrated its tenth anniversary. Shown here are some of the 327 women and men who have been BWIS members.

One high point of 1989 was really due to an event that took place in 1962: the discovery of the muon-neutrino and use of the first-ever neutrino beam at BNL's Alternating Gradient Synchrotron. Leon Lederman, Melvin Schwartz and Jack Steinberger, all Columbia University professors when they did this work, won the 1988 Nobel Prize in Physics. In February, they were guests of honor at a two-day event organized by Columbia and BNL at the Lab, where they joined with the rest of their prize-winning team for this photo: (from left) Steinberger, Dino Goulianos, Jean-Marc Gaillard, Nari Mistry, Gordon Danby, Warner Hayes, Lederman and Schwartz. All were from Columbia except Danby, who was with BNL, as he and Hayes are now.

About 8½ tons — that's how much BNL'ers contributed to BNL's food drive throughout 1989. The donations not only help feed Brookhaven Town's needy, but also give them hope for better times in the next decade. Shown here preparing to deliver 1,500 pounds collected during August's food drive are (back, from left) Jerry Quigley, Food Drive Chair Carole Kerr, Bob DiLello; (front, from left) David Woodson and Ganga Ghimiray.

New Film Badges for Visitors, Guests

A film badge does *not* shield its wearer against exposure to ionizing radiation.

It does, however, do the next best thing: A film badge estimates the amount of exposure its wearer may receive while working around radioactive materials or external sources of ionizing radiation. All BNL employees, guests and visitors are required to wear these badges in radiological areas, so that any exposure can be assessed and controlled within the Lab's dose limits.

Beginning with the first monthly film-badge exchange of the new decade, however, Lab guests and visitors will no longer be issued the same type of film badge as permanent BNL radiation workers.

Starting on Saturday, January 6, members of the public visiting the Lab who are properly escorted into radiological areas will be issued visitor badges — which always will be red. A Lab employee who does not usually work in such controlled areas, but has occasion to be escorted into one by a trained radiation worker will also be issued one of these new, red visitor's badges.

Temporary badges, on the other hand, will be given out to BNL guests or employees who are properly trained to work around radiation-producing machines or with radioactive materials, but whose radiation-job assignment at the Lab is three months or less. The color of these badges will be blue, yellow or green, depending upon the exchange color of the month.

The usual permanent badges will continue to be issued to new and old BNL employees trained as radiation workers. As in the past, the 2,400 permanent badges will still be exchanged monthly, on the first Saturday of each month.

Since December 1984, the permanent film badge issued to the majority of wearers has been the "Gardray,"

Surrounded by film badges and other tools of their trade are (from left) James Gilmartin, Joyce Robinson, Frances Brown and Carl Schopfer, all of S&EP's Personnel Monitoring & Dosimetry Services.

a 2″ x 3/4″ colored plastic frame holding film. Like a name tag, the film badge is clipped to the wearer's upper torso, but so that it faces the radiation source to estimate the whole-body dose properly.

The film within the badge becomes exposed when exposed to x-rays, muons, gamma rays or energetic beta radiation. About 675 employees at BNL's Alternating Gradient Synchrotron wear a larger, modified badge that can also detect neutrons. After each Saturday monthly exchange, the badges are developed and the doses estimated by R.S. Landauer Jr. and Company, a Chicago firm.

"We hope that film-badge wearers have made a New Year's resolution to put their film badges back in their assigned slots on the boards when not in use or at least before going home every night," says Carl Schopfer, group leader of the Personnel Monitoring & Dosimetry Services, Safety & Environmental Protection Division (S&EP).

Schopfer's group includes Frances Brown, who coordinates badge usage; James Gilmartin, who ensures proper measurement of radiation doses by dosimeter testing; and Joyce Robinson, who is in charge of all the dose records.

For the monthly exchange, Brown works with the seven S&EP representatives assigned to the Lab's departments and divisions to collect all the badges from the 97 film-badge boards around site.

"We don't leave a new, permanent badge if the old one isn't in its spot," explains Brown. "So, Monday morning, I get on the phone to track down the missing badges. By Friday, some 100 or more permanent badges are still out — and they are usually assigned to the same people." In addition, Brown must hunt up another 100 or so missing visitor and temporary badges.

By the end of the first week following an exchange, an average of 85 percent of all badges has been collected — but Personnel Monitoring is responsible for 100 percent.

"Overdue or lost badges need to be accounted for and this significantly adds to the Lab's costs for personnel monitoring," explains Schopfer. "Most important is the fact that late and lost badges can result in the delay of exposure review or in information missing from a person's radiation-exposure history."

He adds, "In order for BNL to ensure that all ionizing radiation doses received by employees, guests and visitors to the Lab are properly monitored and recorded, badge wearers must put their badges on the board every night — especially the night before an exchange."

This fall, BNL adopted new administrative standards for occupational radiation exposure. While the maximum exposure currently permitted by law is 5 rem per year, the Lab's standards limit a radiation worker's exposure to 3 rem per year — 40 percent less than the legal maximum. Last year, the average exposure to a BNL radiation worker was 50 millirem — less than 2 percent of Brookhaven's limit.

Those issued BNL film badges have always been able to obtain their radiation-dose records from their S&EP representatives. Beginning this spring, however, S&EP will send yearly summaries to all Lab radiation workers, including their annual and cumulative effective dose equivalents. — Marsha Belford

Film badges will be changed tomorrow. Please place your badge in its assigned rack space before leaving work today.

BNL Spends $33.5 Million On Long Island in 1989

BNL poured $33.5 million into the Long Island economy in 1989, purchasing approximately one-third of its supplies and services locally between October 1, 1988, and September 30, 1989.

Out of a total budget of $298 million, the Lab spent about $98 million for 33,638 purchases of supplies and services. Of that, about $20 million was spent on some 8,300 purchases in Suffolk, and about $10 million went to Nassau County vendors for about 4,000 purchases.

"Because of the growing number of high-tech companies on Long Island, Brookhaven is able to purchase a great deal locally," said John King, Manager of the Division of Contracts and Procurement. "And that's particularly good for the local economy since the money we spend here is new money coming to the Island from the federal government."

Most of the Laboratory's procurement funds were spent on computer and other high-tech goods, as well as construction and services. The Long Island vendors who were paid the most reflect this trend.

For example, Grumman Aerospace Corporation in Bethpage received about $1.4 million from BNL. It provided technology transfer services for the Lab's new x-ray lithography facility, which is being built on site in conjunction with Grumman and General Dynamics.

Also, Tools for Industry in Ronkonkoma supplied about $774,000 worth of tools to Brookhaven; and IBM Corporation of Jericho was paid about $747,000 for computer equipment.

"For purchases over $1,000, we get competitive bids," explained King. "For smaller purchases, the buyer can determine which vendor to use."

King also pointed out that, in addition to the $33.5 million the Laboratory spent on Long Island for supplies and services, the bulk of the $182.5 million in salaries and fringe benefits paid to employees in 1989 was spent on Long Island. Also, approximately 2,800 scientists and students from universities, industries and other laboratories visit BNL each year, contributing significantly to the local economy.

These purchasing statistics were compiled by BNL's computerized inventory, procurement and accounts payable system called IPAP. Before IPAP was instituted in 1983, such statistics were too time-consuming to gather.

As a result of IPAP, the Lab can easily keep track of a variety of data on vendors, according to Michael Seidman, a systems analyst in the Management Information Systems Division. For example, IPAP keeps tabs on how often BNL uses each vendor, as well as the quantity and cost of goods the Laboratory bought and if materials ordered were supplied on time. The system also can trace the type of goods or services that the business sells, and whether it is a large or small business, or disadvantaged for affirmative action reporting. — Diane Greenberg

John King (front) and Michael Seidman review data on BNL's contributions to the Long Island economy, with the help of Management Information Systems Division computer operator Karen Natoli.

Photos on this page by Roger Stoutenburgh.

FICA Taxes Go Up

Deductions for Social Security are taken out of employees' paychecks under the heading "FICA." With the first paycheck of 1990, employees will see a rise in that deduction because, effective January 1, the rate of deduction was increased from 7.51% to 7.65%.

Also increased was the amount of earnings that can be taxed for Social Security. In 1990, the first $51,300 of each employee's earnings are subject to FICA deductions. In 1989, the Social Security base was $48,000.

Coming Up

Jerome Hastings, a physicist in the National Synchrotron Light Source Department, will present the next Brookhaven Lecture on Wednesday, January 17, at 4 p.m., in Berkner Hall. His topic will be "Frontiers of X-Ray Scattering."

Lab Earns $85,488 in 1989 As LILCO Cooperative Member

As a member of the Long Island Lighting Company's (LILCO) Energy Cooperative since July 1, BNL has earned rebates for the months of July, August and September totaling $85,488.

Like the other 380 commercial and industrial LILCO customers that have joined the cooperative, BNL has agreed to cut its electrical demand to predetermined levels on days when usage is expected to meet or exceed LILCO's generating capacity.

Th Lab has agreed to cut electric demand to 23,000 kilowatts (kW) or below on critical days, to earn a rebate of $15.60 per kW for the difference between the monthly peak and the contract level. In addition, BNL gets a return of $7.80 per kW below the contract level.

So, last July 26, when LILCO called BNL at 4:30 p.m. and the Lab responded by turning off as much electrical equipment as possible until 8 p.m. that day, Brookhaven earned a rebate of $50,481.60. On that critical day, BNL dropped its electric demand from a monthly peak of 24,528 kilowatts (kW) to 19,584 kW — a 4,944 kW load reduction.

Though LILCO did not call any critical days in August and September, the Lab still earned $20,841.60 and $24,164.80, respectively, for having contracted to be ready to drop its electric demand.

As a result of their cooperation on July 26, the Lab's electricity consumers earned credits in proportion to their load reduction. For example, $27,009 was earned by the Alternating Gradient Synchrotron; $10,360 by the Accelerator Development Department; and $7,285 by the High Flux Beam Reactor.

The rebate from August and September was credited to the Lab's general electricity account.

1990 Holidays

Holiday	Holiday Observed: Day	Date
New Year's Day	Monday	January 1
Floating Holiday (Martin Luther King Jr.'s Birthday)	Monday	January 15
Presidents' Day	Monday	February 19
Memorial Day	Monday	May 28
Independence Day	Wednesday	July 4
Floating Holiday	Friday	August 31
Labor Day	Monday	September 3
Veterans Day	Monday	November 12
Thanksgiving Day	Thursday	November 22
Day after Thanksgiving	Friday	November 23
Christmas Eve (full day, 1990)	Monday	December 24
Christmas Day	Tuesday	December 25

Revised January 5, 1990

Take the Entire Day Off Christmas Eve 1990

For this year only, BNL's Christmas Eve paid holiday has been extended by the Laboratory from half a day off to the entire day off.

This year, Christmas Eve, December 24, falls on a Monday. So BNL'ers not scheduled to work can celebrate Christmas over a four-day weekend: Saturday, December 22 through Tuesday, December 25.

According to Robert D'Angio, Manager of the Personnel Division, the extra four hours off are being granted to save on heating, electricity and other costs associated with reopening the Lab for only half a day after a weekend and before closing for the Christmas holiday, Tuesday, December 25.

In exchange, employees this year will *not* be excused from work for two hours, 3-5 p.m., on Election Day, Tuesday, November 6. Those who cast their ballots, therefore, must do so during non-working hours.

Mail Run Changes Start Next Week

Due to budgetary constraints, some reduction in mail services will be implemented in two stages.

The first stage will begin on Monday, January 8, with mail delivery and pickup being limited to one location per building. However, delivered mail will continue to be sorted and bundled according to existing mail-stop designations. For example, though the Physics building, 510, will have only one delivery/pickup location, mail will be delivered there in separate bundles for 510A, 510B, 510C, 510D, 510E and 510F.

In each building, the delivery/pickup point will be the present one on the first floor, the point which is closest to the department or division main office. To change the location or for more information, contact Frank Norton, Ext. 2534.

Also on January 8, special paycheck runs will be discontinued. Weekly paychecks for shift workers that are needed before the regular mail delivery will have to be picked up at Payroll.

The second stage will begin on Monday, January 22, when the number of daily mail runs will be reduced from two to one, which will begin at 12:30 p.m. All off-site mail for the U.S. Post Office picked up during this run will be dispatched at 4:45 p.m. the same day. All inter-Lab mail will be sorted for delivery the next business day.

Social Club Ski Trip

Openings still exist for the Social Club's February 2-4 ski trip to Gore Mountain, leaving from the Brookhaven Center at 4 p.m. on Friday, February 2. A deposit of $35 is due immediately, and reservations will be available until January 12, when the full amount is due. Call Doris Terry, Ext. 7610, for details.

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Talented Employees: You Call Us!

Calling all talented employees — here's your chance to be discovered at an Employee Talent Show that is to be held at Berkner Hall on February 17, 7:30 p.m.

The show will be a multi-cultural event, featuring a variety of talent in the interpretative and creative arts. So, those with dancing feet, golden voices, magic tricks, scintillating jokes or any other turn that can turn the show into a hit — please call Fran Ligon, Ext. 3709. The deadline for entries is January 26.

BWIS Meeting

Rosario Enriquez-Leder will speak about the routing system used in the AGS control room, at the next meeting of Brookhaven Women in Science (BWIS), on Thursday, January 11, at noon, in Room A, Berkner Hall. All are welcome; bring your own lunch.

As a programmer/analyst with the Diagnostic & Controls Group at the Alternating Gradient Synchrotron (AGS), Enriquez-Leder works on the software system that, at the operator's request, brings signals from remote parts of the accelerator to the AGS control room. Thus, her talk is entitled "The AGS Control Room Routing System — Operator: Bring That Signal to Me; Routing System: A Signal for You."

After obtaining a Licenciado en Fisica from the Universidad Nacional Autonoma de Mexico, Enriquez-Leder came to the U.S. in 1975 to pursue graduate studies at the State University of New York at Stony Brook, where she worked on theoretical solid state physics and earned a master's degree in 1977. She came to BNL in 1988.

Volleyball

The following are upcoming special events on Court 1:

Wednesday, January 10
- 5:15-7:15 p.m.— Volleyball Clinic, to be given by Scott Willenbrock for anyone who wishes to attend.
- 7:15-9:30 p.m.— Open play for League III players only.

Wednesday, January 17 — 5:30-9:30 p.m., position night for League III.
- 5:30 - Bad Gnus & Turkeys
- 6:15 - Spikes & Turkeys
- 7:00 - Lethal Women & MISfits
- 7:45 - Renegades & Good Timers
- 8:30 - High Volley'em & Nutcrackers

Reminder: It's time to switch court sides!

Overnight Trips To Atlantic City

While the BERA-sponsored overnight trip to Atlantic City scheduled for January has been completely sold out, tickets remain for the February trip. The trip to Resorts International Hotel & Casino on Saturday & Sunday, February 17 & 18, will include round-trip transportation, deluxe rooms, luggage handling, room tax and bellhop gratuities, $20 toward food and beverage, $20 in coins, a welcome cocktail and deferred coupons.

The price is $109 per person, with $40 extra for a single room. The February trip costs slightly more due to the Saturday arrival and because the date is a holiday weekend.

The bus will leave the Brookhaven Center promptly at 9 a.m. and return to the Lab the next evening at about 7 p.m. A stop will be made at the Park-n-Ride at LIE Exit 63 if requested.

Paid-in-full reservations are being taken weekdays, beginning today, at the BERA Sales Office in Berkner Hall, from 9 a.m. to 2 p.m. Reservations are nonrefundable, unless someone else wishes to purchase your tickets. A waiting list will be kept.

For more information, call Louisa Barone, Ext. 3347; M. Kay Dellimore, Ext. 2873; or Rosalie Piccione, Ext. 3160.

Equipment Demo

Gould, Inc. will showcase a "spectrum of solutions" in an equipment demonstration to be held in Berkner Hall on Thursday, January 11, from 10 a.m. to 2 p.m. The test and measurement instrumentation to be exhibited will include the 3000 series and TA4000 recording systems; 2, 4 and 8 channel model DSOs with up to 100 MHz bandwidths; and computer-based software and hardware modules for acquisition, display, control and analysis.

In Stormy Weather:
Dial 282-INFO

Bowling

Pink League

Renie Rosati had a 229/166, Debbie Keating 210/166, Fern Simes 173, Pat Meehan 167.

Cooking Exchange

The dishes of Israel will be demonstrated and sampled at the next meeting of the BERA Cooking Exchange, on Wednesday, January 10, at 12:30 p.m., in the Recreation Building in the apartment area.

All BERA members and their families may attend and are welcome to join the Cooking Exchange. A charge of $2 per person covers the cost of the cooking ingredients, and babysitting is provided at 50¢ per child.

Hospitality News

The Hospitality Committee will hold an informal get-together on Tuesday, January 9, at 9:30 a.m., at the Brookhaven Center — a good opportunity to meet with old friends and to welcome new residents of the apartment area on site.

Spouses of Lab employees and guests are welcome. Bring the children, as babysitting will be provided free of charge. Refreshments will be served.

Carnations on Sale

To benefit the American Heart Association, BERA is sponsoring a carnation sale for the second year. For each $5 donation, you will receive a bouquet of fresh carnations on Wednesday, January 24.

"Flowers straight from the heart" is this year's sale theme, so have a heart, buy a bunch as a gift to yourself or someone special. Though the bouquets are small, the donations will add up.

Paid orders are being taken at the BERA Sales Office in Berkner Hall, weekdays, 9 a.m. to 2 p.m. through January 10. Bouquets will not be available for purchase on January 24. Pick your order up that day at the same location.

For more information, call Louisa Barone, Ext. 3347, or M. Kay Dellimore, Ext. 2873.

Blood Count

A special thank-you to all BNL'ers who took time from their busy holiday season to give blood during last month's drive. Your generosity brought the total donated at the Lab in 1989 to over 1,000 pints.

Aerobics & Stretch Start Next Week

Classes in both stretch and aerobic dance are on the Aerobic Dance Club's upcoming schedule. Instructor Pat Campbell will lead aerobic dance classes on Tuesdays and Thursdays, and stretch classes on Mondays. Classes run from 5:15-6:15 p.m., and mats are recommended for both.

Either or both classes may be taken, and each ten-week session of aerobic dance or stretch costs $30, payable at registration preceding the first classes:

- Stretch — Monday, January 8.
- Aerobic Dance — Tuesday, January 9, and Thursday, January 11.

The Aerobic dance classes will be held at the Brookhaven Center. For the location of the stretch classes and any other information, call Bill Leonhardt, Ext. 2378; Janet Sillas, Ext. 2345; or Pat Campbell, Ext. 3483.

Arrivals & Departures

Arrivals

Donald E. Barber .....DNE
Ralph A. DeMarco .....AGS
Bao Hua Shen .....Accel. Dev.
Vladimir Zajic.....Physics
Michael T. VanDerKarr.....S&EP

Departures

This list includes all employees who have terminated from the Laboratory, including retirees:

Carol Ann Beckner .....Tech. Info.
Hong-Bo Chiang .....Comp. & Comm.
Ernest D. Courant.....Physics
Charles C. Dodt.....MIS
Marilyn Galli .....Tech. Info.
Mary T. Kinsley .....DAS
Jean C. Lauer .....MIS
Alessio Mezzina .....DAS
Eugene C. Mohlmann ....Con. & Proc.
William L. Overton .....SMD
Arnold W. Sandberg .....Accel. Dev.
Daniel Stelmaschuk .....SMD
Frederick J. Strier .....S&EP
Karen A. Vogel .....Fiscal
Stephen W. White.....Biology
Robert G. Wilson .....DAS

Cafeteria Menu

Monday, January 8

Soup: Cream of chicken	.75/.95
Entree: Baked ziti w/garlic bread & 1 veg.	3.00
Entree: Chicken breast hero & 1 veg.	3.10
Fitness fare: Beef stew & 1 veg.	3.00
Carvery: Hot pastrami sandwich	2.85
Grill: Monte Cristo	2.85
*SPICE: Cool day? Warm up with hot chocolate	

Tuesday, January 9

Soup: Bavarian lentil	.75/.95
Entree: Sausage & pepper hero	2.85
Entree: Fried flounder w/1 veg.	3.10
Fitness fare: Sweet & sour pork w/1 veg.	3.10
Carvery: Open-face roast beef sandwich w/gravy	2.85
Grill: Mushroom cheeseburger w/fries	2.35
*SPICE: Deli special	

Wednesday, January 10

Soup: Cream of mushroom	.75/.95
Entree: Veal stew over rice	3.10
Entree: Fried liver & onions w/1 veg.	3.10
Fitness fare: Vegetarian lasagna w/1 veg.	3.10
Carvery: Hot corned beef sandwich	2.85
Grill: Two franks & kraut	1.25
*SPICE: Pita stuffer	

Thursday, January 11

Soup: Minestrone	.75/.95
Entree: Salisbury steak w/1 veg.	3.10
Entree: Cheese tortellini w/meat sauce & 1 veg.	3.00
Fitness fare: Chicken oregano w/1 veg.	3.10
Carvery: Baked Virginia ham sandwich	2.85
Grill: Reuben	2.85
*SPICE: Baked potato toppers	

Friday, January 12

Soup: New England clam chowder	.75/.95
Entree: Fried clams on bun	3.10
Entree: Two braised short ribs w/1 veg.	3.10
Fitness fare: Fish Florentine w/1 veg.	3.10
Carvery: Hot turkey sandwich w/gravy & cranberry sauce	2.85
Grill: Tuna melt w fries	2.85
*SPICE: AWOL -- desserters special	

**SPICE stands for "Special Program In Culinary Entertainment," through which Service America Corporation offers daily specials.*

In Addition

We made our list, checked it twice — but, in last week's thank-you to all those who help bring the Bulletin to you each week, one key group was inadvertently omitted. A belated but heartfelt thank you goes to those in the BNL mail room who assure that the Bulletin always arrives with the Friday morning mail.

Service Awards

The following employees received service awards during the month of December 1989:

Thirty-Five Years

Victor P. Bond .....Medical
Gerald C. Kinne .....Director's Ofc.

Thirty Years

Duff M. Henze.....Nuc. Energy
Douglas Humphrey ...Photo.& G.Arts
Richard M. Okula .....Plant Eng.

Twenty-Five Years

John L. Barry Jr. .....Plant Eng.
Peter S. Bilski .....Plant Eng.
Wesley E. Buxton .....AGS
James E. Carroll .....Plant Eng.
Robert L. Ellis.....Plant Eng.
Robert G. Horton .....AGS
Lawrence A. Johnson.....Plant Eng.
Gerard J. Paul.....Mgmt.Info.Sys.
Walter R. Powell .....Cent.Shops
Joseph F. Sheehan Jr. .....NSLS
Frank D. Strebel.....Plant Eng.
Frank J. Strelecki .....Plant Eng.
F. William Studier .....Biology
Peter Thieberger .....Physics

Twenty Years

Rudolph Damm .....AGS
Eugene Hassell.....Physics
Marshall Newton .....Chemistry
Alan Smith .....Comp. & Comm.

Ten Years

Judy Badal .....Nuc.Energy
Mildred Bennett.....Sup.& Mat'l.
Raymond Ceruti.....Accel. Dev.
George Gordon .....Cent. Shops
Albert Quierolo .....Reactor
Michael Tannenbaum.....Physics
Susan Walch .....App. Science

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.

4140. DEPARTMENT ADMINISTRATIVE MANAGER - Requires a bachelor's or advanced degree in a business discipline or equivalent plus substantial experience with high-level administrative policies and procedures, including budget management. Will be responsible for managing diverse, major administrative functions within the department in areas such as procurement, facilities, systems development, property management, personnel and safety. Will also carry out existing departmental administrative policy and develop new policies with the approval of the Chairperson. Must have experience with spreadsheets and other business-related computer systems, be able to deal effectively with all levels of personnel, possess excellent communication skills, and have demonstrated a high degree of initiative and professional judgement. Please submit resume to Marsha R. Kipperman, Personnel Division, Bldg. 185. Chemistry Department.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside applicants.

4141. ENGINEERING POSITION - Requires MS in geology/hydrology or BS with 2-3 years' experience designing, reviewing and updating groundwater monitoring programs for facilities involved in research and/or operations that potentially impact the environment. Ability to perform groundwater modeling and knowledge of regulations governing groundwater impacts an asset. Safety & Environmental Protection Division.

4142. ENGINEERING POSITION - Requires MS in environmental science; BS in environmental science and two years' experience; or physical science degree with experience in environmental applications. Familiarity with DOE, EPA, NRC and ANSI sampling methods for radioactive and nonradioactive materials in air, water, soil, vegetation and aquatic environments required. Requires good writing skills and experience with computer data bases. Safety & Environmental Protection Division.

Motor Vehicles & Supplies

88 HONDA ACCORD LXI - 4-dr., champagne, 34k mi., p/sunroof, loaded, nearly perfect, $11,600. Don or Sue, 473-6570 after 7 p.m.

86 FIREBIRD - red, V-6, 62k mi., ac, m/t, am/fm cass. stereo, $6,000. 286-7989.

84 EAGLE - 4wd wagon, a/t, p/s, ac, am/fm cass., 45k mi., clean, asking $4,700. Ext. 2604 or 473-2473.

83 NISSAN STANZA - 4-dr. h/b, 5-spd., m/t, ac, stereo cass. radio, 90k mi., new c/v joint & exhaust system, excel. cond. in & out. Marc, Ext. 2585.

83 FORD LTD CROWN VICTORIA - midnight blue, new charging system, transmission & fuel injectors, mint cond., $4,900 firm. Gene, Ext. 5293.

83 DODGE ARIES - 4-dr., p/b, p/s, 88k mi., excel. cond. Hugh, Ext. 4516 or 744-8901 eves.

82 NISSAN STANZA - 5-spd., good clutch & tires, am/fm. Jim, Ext. 4150.

81 HONDA CIVIC - s/w, 4-dr., 5-spd., 105k mi., excel. mech. cond., low mi., roomy, $1,200 or best offer. Ext. 2914 or 286-3742 eves., wknds.

81 SUBARU WAGON - 4-spd., 4wd, ac, good cond., reliable, must see, $1,400. David, Ext. 3640 or 345-0326.

79 OLDS CUTLASS WAGON - a/t, ac, am/fm, best offer. 473-2473.

73 BUICK ELECTRA 225 - 4-dr., 114,015 mi., orig. owner, $250. Lou Pergola, Ext. 3499 or 732-1028.

70 VOLVO 1800E - classic, 4-spd., o.d, $3,900. Bill Adams, 477-0301.

TIRES - 2, G78-15, two new tires, T125/70D fifteens, Firestone & Royal, $10 ea.'878-6637.

Boats & Marine Supplies

19' BAYLINER BOWRIDER - 1988, 125-h.p. Force, Escort trailer; 16' Sportcraft Bowrider, 1984, 50-h.p. Merc., $2,500 neg. Ext. 7125 or 929-8641.

15' SILVERLINE - 1969, 33-h.p. Johnson, new chairs, controls, carpet, teleflex steering, paint & trailer, asking $800. Pat, Ext. 4500 or 744-7017.

Furnishings & Appliances

WALL UNIT - includes display shelf w/glass doors, cherry finish, good cond., $40. Ext. 2679 or 472-6922.

TWIN BED - mattress, boxspring & frame, $45. 475-4394.

COAL STOVE - Surdiac, auto feed & damper, tan/brown, excel. cond., $200. 928-8060 after 6 p.m.

COUCH - textured beige fabric, modern, 6 pillows, comfortable, good cond., $175. Ed Kaplan, Ext. 2007 or 751-1474.

DINING ROOM SET - table w/6 chairs, buffet, china closet, pad, mirror, neutral light wood, good cond., $650. 821-1827 after 6 p.m.

Tools, House & Garden

WOOD STOVE - airtight, Vermont Castings, Resolute Acclaim, 1989, used only for 3 mos., must sell, black, $850. Joann, 472-6742.

KEROSENE HEATER - 45,000 Btu, chimney-type, heats up to 3 rooms, good cond., $35. Tom, Ext. 4507 or 878-1060.

LADDERS - 40', 32', 16', extensions, 8' fiberglass step; man's 26" 10-speed bike, $100. 929-8641.

Sports, Hobbies & Pets

ICE SKATES - curved blade, felt liners, Bauer, worn once, woman's size 6, $45. Ext. 3699.

CLARINET - student model, excel. cond., $125; advanced Signet, $250; woman's ice skates, size 6, like new, $5. Jim, Ext. 3372 or 821-0250.

PUPPIES - AKC rottweiler, born 12/7, taking deposits. Donna, 281-7942.

DRUMS - CB700, 5-piece, high hat cymbal & stand, $400; Crate PA system, 4-channel, w/equalizer, two 12" monitors, $475. 929-8641.

Audio, Video & Computers

COMPUTER - 128 Commodore, 1571 disk drive, lots of software, books, magazines, extras, $750. Gary, Ext. 3268.

COLOR TV - Sharp, 19", asking $60. Pat Browne, Ext. 4500 or 744-7017.

HOME ENTERTAINMENT CENTER - SEGA, 4 game cartridges, 2 controllers & gun, like new, orig. $200, asking $100. 874-2387.

Miscellaneous

TICKETS - 2, Carnegie hall, Toronto Symphony, Mozart & Brahms, Jan. 27, $24/each. Mike, Ext. 4061.

ELECTRIC FOOTBATH - Songrand Thermo-Jet whirlpool, excel., $8; Avon, 15 pieces, $15; paperback books, 5/$1.00. 878-6637.

CLOTHES - new, man's sports jacket, size 40, $20; wool sweaters, medium, $10; jeans, brown, size 36, $10. Susan, Ext. 7716.

BRIDAL DRESSES - royal blue, two size 12's, one size 16, top sweetheart lace, bottom taffeta, $75/each. Joann, 472-6742.

Real Estate

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

For Rent

LAKE RONKONKOMA - 3-rm. apt., 1-bdrm., eik, l/r, bath, thermostat, cable, priv. ent., 20 min. BNL, $700 all, 1 mo. sec. 588-2477 after 5:30 p.m.

MIDDLE ISLAND - Coventry Manor condo, 3-bdrms., 2 full baths, all appl., fenced, patio, tennis, pool, a/c, 6 mi. to Lab, $950/mo. Platner, Ext. 3922 or 878-2604 eves & wknds.

MILLER PLACE - 1-bdrm. apt., l/r-kitchen combo., bathroom, spare room. Ext. 2537.

NORTH SHIRLEY - 2½-room furn. apt., newly decorated, priv. ent., 1 person only, nonsmoker, no pets, 5 min. from Lab, $500/all. 281-8044.

STONY BROOK - furn. 4-bdrm. house, beach rights, water view, walk to University, avail. Jan. 22 for 5 months. 632-8179 or 751-6631.

WADING RIVER - cozy 3-rm. apt., eik, full bath, one person, no pets, nonsmoker, $500/mo. incl. util., avail Jan. 1. Janet, Ext. 2345 or 929-3910.

HILTON HEAD, SC - 2-bdrm. condo, sleeps six, 2 baths, pool, beach, tennis, golf, $300/wk., Nov.-Mar., 689-5378.

N. MYRTLE BEACH, SC - 1 bdrm. condo, sleeps 4, tennis, fitness, in/outdoor pool, beach rights, neighboring 3 golf course, Golfer's Haven, Jan-May, $245/wk. Joann, 472-6742.

For Sale

MASTIC - 3-bdrm. ranch, ¼ acre, 1½ 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 - 80'x200' building lot, all permits and city water, close to BNL, shopping and LIRR, corner location w/woods behind. Larry, Ext. 3506 or 281-2002.

MIDDLE ISLAND - Lake Pointe,. 2 bdrms., l/r-d/r area, w/d, cac, gas heat, wood deck off master bdrm., pool, tennis, clubhouse, ask. $78,500. Bob, 924-7316.

PATCHOGUE VILLAGE - waterview, 4-bdrm. Colonial, 2 baths, eik, fd/r, fam. rm., f/p, balcony, deck, carpet, appl., gar., ½ acre, walk to pool, trains, schools. Jan/Emily, 286-3623 or 475-0090.

ROCKY POINT - 3-bdrm. high ranch, l/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, $159,900. Kochman, 744-1057.

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

SETAUKET - 9 rms., 3 baths, 2-car gar., beautiful ½ acre, mint cond., N. of 25A, $269,000. 751-1401.

WADING RIVER - multi-level contemp., 3+ bdrms., decks, pool, wooded, $209,000. Joe, Ext. 3172, 12:00-12:30 p.m.

WEST SAYVILLE - 3-4 bdrm. ranch, 2 full baths, gar., cac, full bsmt., eik, d/r, l/r, w/w, fam./rec. rm., pvt. patio, Sayville SD, walk to Bay, $149,500. 589-2681.

YAPHANK - 3-bdrm. condo, 2½ baths, fin. bsmt., wood floors, a/c, 5 min to Lab., $120,000. 751-2216.

TAMPA, FL - Paradise Village M.H.P., 1982 Liberty mobile home, 14'x56', 2 bdrms., 1 bath, family park, all appl. cac & heat, awning, shed, excel. cond., must sell. Glenn, Ext. 4638.

Lost & Found

FOUND - woman's black scarf, at Blood Drive, Brookhaven Center. Karen, Ext. 4262.

FOUND - one black leather glove, man's, in front of Bldg. 120 on 12/22. Debbie, Ext. 4269.

Free

REFRIGERATOR/FREEZER - GE, 1951, works fine, extras. Ext. 2260 or 286-1214 after 5 p.m.

Wanted

SEXTANT - good quality, working order; stereo, old, tubed components, working or not, by Marantz, Western Electric. Jim, Ext. 4584

AIR COMPRESSOR - 3 h.p., power, portable, elect. w/tank and air-powered tools. Ken, 331-1841

Services

*Services are listed in the first **Bulletin** of every month as a courtesy to BNL employees. They are neither screened nor recommended by the Bulletin. Services forms are available in the Bulletin lobby, Bldg. 134.*

BRICKWORK - patios, walks, swimming pools, retaining walls, landscaping ties, Belgian block, 20 yrs. exp., Lab discount. Tony, 698-9274.

PLUMBING - repairs, installation, heating, boilers, fixtures, free estimates. Joseph 345-3923, leave message.

SHEETROCKING & SPACKLING - free estimates. Kevin, 563-9855.

BARTENDING - for all occasions, complete professional service, portable bar & personnel avail. by the hour. Bob, 744-3289.

TV, STEREO, VCR REPAIR SERVICE - 35+ years exp., pick up and delivery at BNL. Dick Hildenbrand, 732-5071.

RUG SHAMPOOING - very reasonable, Lab discount. Jerry, 924-6019 days.

PLUMBING & HEATING - alterations & repair work by retired BNL employee. 472-1205.

SEASONED FIREWOOD - oak, split, stacked, delivered, full cord, 4'x4'x8', $135 cord, $35 half cord. 698-2501 or 369-0645.

CUSTOM BLINDS - all types, Lab discount, Levolor, Louverdrape, Hunter, Douglas, Graber verticals, duettes, minis, micros. 281-2849.

WORD PROCESSING - fast results, 9 years' secretarial experience, IBM PC Wordstar, letter quality, reasonable rates. 928-7571 after 6 p.m.

SEAMSTRESS - clothes made and altered at reasonable prices. Donna, 924-1684.

LANGUAGE TUTOR - French, Spanish, Portugese, ESL, UN-certified. Raysa, 399-4480.

CRAFTS - can complete unfinished projects, needlepoint and cross-stitch, write to Christine Kaufman, CCD, Bldg. 515, include phone #.

BABY-SITTER - available after school, weekends & holidays. Elena, Ext. 3020/3890.

CARPET & UPHOLSTERY CLEANERS - dry foam extraction, dries in 2 hours or less, free estimates. 471-3846.

Classified Ad Policy Deadline is 4:30 p.m. Friday for publication Friday of the next week.