BROOKHAVEN BULLETIN
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BROOKHAVEN NATIONAL LABORATORY

Community Forum Meets At Brookhaven

The community forum organized in January to serve as a community interface with BNL met for the second time last night, February 29, in the Brookhaven Center.

As the Bulletin went to press on Thursday, the agenda for the evening meeting included a discussion of groundwater issues. BNL had also requested time to present to the group the Lab's conclusions from reviewing the sewage treatment plant upgrade (see story at right).

Because of the Lab's commitment to being open and forthcoming with the community forum, Sue Davis, BNL's Associate Director for Reactor, Safety & Security, planned to tell the group that the Lab would like to discuss with the forum several other issues that will play out over the next one to three years, including shipments of spent fuel from the High Flux Beam Reactor and the commissioning of the Relativistic Heavy Ion Collider in 1999.

Sewage Treatment Plant Upgrade: Lab's New Plan Calls for Aboveground Tanks

BNL has decided to upgrade the Lab's sewage treatment plant by constructing aboveground aeration tanks, according to Ed Murphy, Deputy Manager of the Plant Engineering Division.

"Elevating the tanks lets us upgrade the plant, yet addresses the community's concerns about dewatering," said Murphy. "After the public outcry last fall, we stopped the project, we listened, and now we're proposing an upgrade that should satisfy all parties."

Murphy added that BNL will request additional federal construction funds from the U.S. Department of Energy for the new upgrade project. BNL will also seek enough money to upgrade the plant to tertiary treatment.

The Bulletin last reported on BNL's sewage treatment plant upgrade on December 22, 1995, when a technical workshop was announced for January 4. The workshop brought together a panel of experts to identify key concerns and propose feasible solutions for upgrading the plant.

BNL's sewage plant is a primary treatment plant that operates under a state permit and has an excellent record of compliance. In order to improve further the quality of effluent to the Peconic River, the Lab planned to construct two aeration tanks, which would have upgraded the plant to secondary treatment.

Construction of the tanks below ground would have required dewatering, or pumping water out of the excavated areas. While the Lab expected that all of the water would have been pumped onto the surrounding ground, as a contingency plan, the Lab applied for and received a New York State permit to discharge a limited number of gallons to the Peconic River, where the sewage plant effluent already discharges. The project was postponed last October, in response to public concerns about the environment.

In the new proposed upgrade, the aeration tanks will be installed above ground. Also, BNL will construct a pump station to lift partially treated effluent up to the tanks.

Said Murphy, "This new project will eliminate any significant construction dewatering. We may have to put in sump pumps on a temporary basis as we build the pump station, but we can guarantee that there will be no dewatering discharge to the Peconic River."

This decision, according to Murphy, is based on input from the community and technical experts. The January workshop identified several construction alternatives, including a new idea for sealed excavation. The consensus of the workshop panelists was that BNL should find a method that would eliminate dewatering, which sealed excavation would do.

"In the end, we came down to either aboveground tanks or the sealed excavation," said Murphy. "We chose the aboveground tanks because they will be less costly to construct."

In fact, while aboveground tanks may be less expensive than those built through sealed excavation, they will still be significantly more expensive than the original plan. Having aboveground tanks will also increase the long-term operating costs of the plant, increase energy consumption and reduce the plant's reliability. "But, given public concern and BNL's determination to go forward with an upgrade, we think building the tanks above ground is the right decision," said Murphy.

Plant Engineering will now proceed with a redesign of the project, and the job will have to be rebid. If all goes according to schedule, construction will begin this summer and finish a year later. —Mona S. Rowe

Geiger Designated Liaison to Community Forum

Effective today, March 1, Kathy Geiger, who for three years has led the community relations and outreach program in BNL's Office of Environmental Restoration (OER), moves to the Director's Office to serve as the Lab's liaison to the recently initiated community forum. The forum is a citizens' group consisting of civic leaders and others interested in learning more about BNL's activities.

In her new assignment, Geiger reports to Sue Davis, Associate Director for Reactor, Safety & Security, who said, "The Laboratory has been working hard to develop a proactive community-outreach program, to provide an active liaison with the community forum, local community groups and local school districts, as well as with our own employees. Kathy will provide that focus and help us strengthen our ties to the community."

Geiger came to the Lab in September 1992 as an assistant staff specialist and was promoted to staff specialist in April 1995. Her work at OER was concentrated on developing bonds and networking with agencies, businesses, civic leaders and interested members of local communities.

"Now," says Geiger, "I look forward to using my experience to strengthen the ties between BNL, Lab employees and local individuals, groups and schools, so that everyone's concerns and interests can be understood and addressed. Working through civic groups is in the tradition of Long Island, and Brookhaven Lab is very much a part of the community and committed to building strong relationships with its neighbors."

Before joining BNL, Geiger worked for ten years as a researcher for Newsday. She has also worked as a librarian in three Long Island towns and as a teacher and librarian at Harborfields High School. She has her B.A. in humanities from Dowling College and 24 credits towards a master's of library science from Long Island University, C.W. Post Center.

John Carter Now Handling OER's Community Relations

Stepping into Geiger's place as OER's Community Relations Coordinator is John Carter, who has worked

(continued on page 2)

Roger Stoutenburgh

Kathy Geiger

Where We Are At the OER

BNL established its Office of Environmental Restoration (OER) in 1991 to manage the Lab's environmental remediation activities as one of the hazardous-waste sites under the federal Superfund Program. The Lab was included on the Superfund list primarily because of past disposal practices, although these practices complied with the standards of the times.

Part of the Director's Office, OER oversees Superfund cleanups on site under an agreement among the U.S. Department of Energy (DOE), the U.S. Environmental Protection Agency (EPA) and the New York State Department of Environmental Conservation (NYSDEC). OER is responsible for short-term cleanup actions to remove known sources of contamination, and for long-term investigation and cleanup of "areas of concern," that is, areas where there may be a poten-

(continued on page 2)

Cleanup Actions at BNL: An OER Checklist

Completed Cleanups

☑ **Tanks and cesspools**. Six underground and three aboveground storage tanks have been removed and properly disposed of off site. A septic tank and 21 cesspools have been remediated, with six of the pools already backfilled, and 15 being backfilled.

☑ **Contaminated soil**. About 1,400 tons of soil contaminated by a 1977 oil/solvent spill were excavated and properly disposed of off site.

☑ **Landfill**. An eight-acre landfill has been capped. Capping prevents precipitation from reaching the fill, becoming contaminated, then leaching into groundwater.

☑ **Degreaser pit.** The machine-shop equipment degreaser pit in Bldg. 208 was dismantled, cleaned and removed, and the groundwater around the area is being monitored.

Remediation in Progress

❑ **Central Steam Facility**. At the central steam facility area, called Operable Unit (OU) IV, the field investigation and evaluation of a 1977 fuel oil and solvent spill are complete. On November 22, 1995, the proposed remedial action was provided to the public for review and comment. Cleanup is expected to begin in 1997.

❑ **South area groundwater**. The study of a portion of the groundwater along the Lab's southern area and proposed recommendations are complete.

The proposed cleanup system includes the installation of a pump-and-treat system to stop the migration of contamination and to clean up the groundwater.

A new recharge basin will be constructed so that the clean groundwater can be safely returned to the aquifer.

A public meeting to discuss the proposed cleanup alternatives was held on January 16. Cleanup is scheduled to begin in fall 1996.

❑ **Sludge removal**. At the sewage- treatment plant, the settling tanks, which date from World War II, have had sludge removed. The sludge is being treated and prepared for proper disposal off site.

❑ **Former landfill**. The capping design for a ten-acre former landfill is 30 percent complete; construction is scheduled for this summer.

(continued on page 2)

Geiger/Carter (cont'd.)

with Geiger in community relations for the past year.

Carter, who joined BNL in April 1995 as an OER assistant staff specialist, has a B.Sc. in journalism/English from Southern Illinois University at Carbondale and a 1986 MBA from The George Washington University.

Before coming to BNL, Carter spent five years as an editor, reporter and photographer for community newspapers on Long Island and in Indiana, and ten years in commercial real estate and residential development and management around Washington, D.C. As a free-lance photographer working through a Kress Foundation grant, he photographed the 4,000 pieces in Howard University's art collection for the National Gallery of Art.

Roger Stoutenburgh

John Carter

Geiger will now move her office to Bldg. 460, but will retain her Ext. 3149 telephone number. Carter will remain in Bldg. 51 and may be reached at Ext. 5195.

OER Checklist (cont'd.)

Status of Other Projects

❑ **Groundwater profile.** A profile of groundwater characteristics both on and off site, which guides plans for all BNL's cleanup projects, is ongoing.

❑ **OU II and OU III.** The remedial investigations for the radiological soils on site (OU II), and groundwater contamination coming from the core of the site are scheduled to be completed in the fall of 1996.

❑ **OU V.** The field investigation, soil and groundwater sampling and monitoring for the sewage treatment plant and Peconic River project, (OU V) are complete. A report will be submitted to the regulatory agencies in summer 1996.

❑ **OU I.** The remedial investigation to characterize contaminated soil at the Hazardous Waste Management Facility is complete and being reviewed by regulatory agencies.

❑ **OU VI.** The OU VI (southeastern area of site near biology fields) feasibility study focusing on ethylene dibromide in groundwater near the Lab's southeast boundary will determine the extent of contamination caused by fumigants used in the 1970s and will evaluate cleanup options. It has been submitted to the regulators for review and comment. Once comments are received and incorporated, the report will be made available to the public for review and comment. — L.S.

At the OER (cont'd.)

tial for contamination (see checklist).

The 26-member OER team is led by Manager Bill Gunther, who said: "Our mission is to conduct the cleanup of the BNL site as effectively and efficiently as possible. We focus on managing remediation projects. This involves extensive sampling, analysis and monitoring of sources and areas of contamination, and developing an understanding of the local hydrogeology, or how the groundwater moves in this area. We also supervise field work, develop and administer a comprehensive data base, monitor and report on contractor performance, and work with the community.

"To do all this," Gunther continued, "we work closely with the Safety & Environmental Protection, Plant Engineering, and Contracts & Procurement Divisions. We also get technical support on specific issues from the Advanced Technology, Applied Science and Chemistry Departments, while the Public Affairs Office helps us disseminate information about our progress and some of the issues that we are addressing."

The Site Restoration Process

Site restoration is done in several ways. Efforts that had been ongoing at the Lab before OER was created have been continued. The Interagency Agreement also allows for OER to conduct expedited cleanup action should a situation occur when immediate action is required. Most of the work, Gunther explained, is focused on the now 28 areas of concern. The areas have been combined into five operable units, each with a work plan that details the process for that particular project.

The work consists of a review of what is known about the area, for example, its history, geology, hydrogeology and population. A second part deals with sampling and analysis, including where samples should be taken, the type of sampling and how the quality of the analyses will be evaluated. The third part centers on health and safety, with descriptions of work zones, procedures and equipment, and how they affect personnel.

Following acceptance of the work plan by DOE, EPA and NYSDEC, the remedial investigation is conducted, This is detailed fieldwork to determine the nature and extent of the contamination, and it includes an evaluation of the various remedial actions available to address specific problems.

Commented Bob Howe, OER's Deputy Manager, "This process takes time, but it is vital to consider all possible factors and consequences of whatever action is taken. The system of checks and rechecks and suggestions from many sources is designed to ensure that everybody's best interests are served in the most efficient way."

"And remember," Gunther concluded, "all interest and suggestions offered by BNL employees on environmental issues are very much appreciated. Call us at Ext. 2818."

— Liz Seubert

Arrivals & Departures

Arrivals

Alan Budhu.....Reactor
Poul Norby.....Chemistry

Departures

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

Daniel Carapezza.....RHIC
Robert C. Klein.....Saf. & Env. Prot.
Roy H. Lebel.....RHIC

Note to Employees:

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

50 YEARS AGO THIS WEEK

This series, which recounts the earliest days of Associated Universities, Inc. (AUI), and BNL, will run as appropriate throughout 1996 and 1997, the 50th anniversary years of AUI and BNL, respectively.

• **March 2, 1946** — For an informal conference, representatives from Cornell University and the University of Rochester join representatives of physics departments from other institutions seeking a research laboratory in the Northeast.

• **March 3, 1946** — On behalf of these institutions, Dean George Pegram, Columbia University, sends a second letter to Leslie Groves, Commanding General of the Manhattan District. Pegram writes:

"We believe that it is essential to the national interest that the scientific, engineering, and industrial resources of this country be utilized as fully as possible for the development of atomic energy. . . . In terms of scientific and technical personnel, and of research and educational facilities, the resources of the northeastern part of the country are greater than those of any other section. At present these resources are not being used extensively for atomic energy work; we believe they can be used fully only by the establishment of a major government laboratory in this area.

"In recent weeks such a belief has prompted two different groups of universities in this area, one from the New York region, one from the Boston region, to approach you or your representatives with reference to the establishment of a laboratory for nuclear science and engineering to supplement those already in existence at Oak Ridge, Tennessee; Los Alamos, New Mexico; Berkeley, California; and Chicago, Illinois. Representatives of these two groups have now met together and combined their programs into the proposal submitted in the present communication.

"The proposal is that the Manhattan District take immediate steps for the establishment in this area of a nuclear laboratory including a major chain reacting pile. This proposal is directly sponsored by nine universities, Columbia University, Cornell University, Harvard University, The Johns Hopkins University, The Massachusetts Institute of Technology, Princeton University, University of Pennsylvania, The University of Rochester and Yale University. . . .

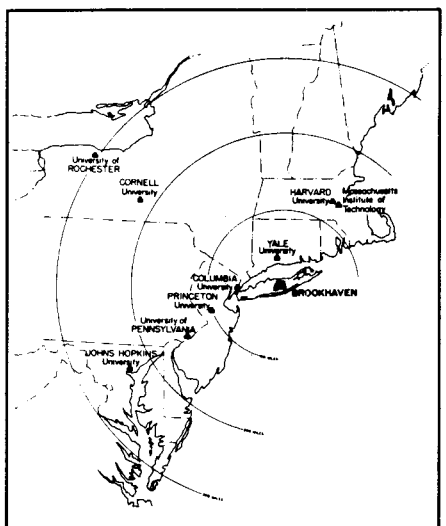
". . . [W]e shall consider . . .

"1) ***The Scientific Resources of the Northeast***. . . .The universities of the area are experienced in the handling of large undertakings . . . As a reservoir of talent on which to draw for a large laboratory of nuclear science and engineering, it would be almost impossible to find anywhere a comparable area.

"2) ***The Interest in Nuclear Science and Engineering.*** The scientists and engineers of the northeast are convinced that the future developments of nuclear science and engineering will be of the very greatest importance. Increased knowledge of the fundamental nature of matter, the application of radioactive tracer methods to the study of physical, chemical, and biological processes, the use of radioactive materials for therapy and the study of large scale radioactive transformations with a view to the production of power will be developments . . . New buildings, new machines for the production of high energy particles, new chemical and metallurgical and engineering programs, new interest on the part of biological and medical men, are to be found on every side. These are not ephemeral developments. . . .

"3) ***The Need of Combined Action.*** The research . . . for a really effective program in nuclear science and engineering depends on certain apparatus and facilities too large in scale for any single university to undertake. . . . a northeastern laboratory should contain piles for production of neutron beams for physical experiments, for production of radioactive substances (such as could not be shipped from other laboratories), and for experimentation on the nature and construction of piles themselves. It should contain the . . . facilities for chemical, metallurgical, and engineering experiments with large quantities of radioactive materials. It might eventually contain very large machines for the acceleration of high energy particles. It should contain extensive medical and biological facilities, both for health control and for research in the biological aspects of radioactivity. . . .

"4) ***The Education Function . . .*** The present undersupply of workers in nuclear science and engineering is critical, and the only way to bring it to an end is to train young men. . . . The proposed laboratory would [supplement] the educational functions of the universities by allowing staff members and graduate students to engage . . . in research of a type too extensive to be carried on at the universities. In medicine, as well as in science and engineering, it could be of great value, in training medical men in . . . the application of radioactive methods to medical problems.



The nine sponsoring universities

"5) ***Methods of Collaboration . . .*** If a nuclear laboratory were set up in the northeastern area, the scientists all realize that it could not be near enough to most of them to be very readily accessible. . . . It does seem entirely possible, however, to find a site so located that a man could leave his university after work one day, travel either in the evening or at night, spend the next day at the nuclear laboratory, and return to his own university the next evening or night. . . . if this degree of accessibility were achieved, a great deal of collaboration between the universities and the nuclear laboratory could be obtained.

"6) ***The Permanent Organization . . .*** a laboratory of the scale contemplated must have a very substantial permanent organization in addition to the part-time members of the universities who would take part in its activities. . . .

"7) ***The Proposal.*** Since such a nuclear laboratory must be dependent on government support . . . the universities of the northeastern area unite in requesting the aid of the . . .[Manhattan] District in setting up such a laboratory. They will be glad to take the lead in organizing the laboratory. . . . We believe that the laboratory should be operated by a single institution as contractor, preferable a single university, but that the scientific direction should be in the hands of a board representing the sponsoring institutions and appropriate government agencies.* . . .

"8) ***The Need for Prompt Action.*** The northeastern area has not inherited from the war an operating laboratory of nuclear science and engineering. The scientists and engineers of this area are marking time, as far as the activities are concerned which would be carried on at the proposed nuclear laboratory. If there is much further delay, they will become so much immersed in other activities that they will no longer be available . . . Furthermore, if the pattern becomes established of supporting the laboratories . . . in the southeast, the middle west, and the west coast, but not the northeast, it will become increasingly difficult to establish a laboratory . . . which will make full use of the unequaled facilities of the area . . . Everything is therefore to be gained by action, and the District . . . could gain the satisfaction . . . that it had assisted in the formation of an enterprise which would be bound to command the whole-hearted support of a very substantial area of the country, and which would be certain as it developed to contribute in an enduring and vital way to the public welfare." *(To be continued on March 8.)*

**In his BNL Lecture No. 55 of March 30, 1966, Norman Ramsey observed, "Although no single institution was chosen at that time it was the general presumption that it would probably be Columbia University."*

Nominated for BERA

The BERA Nominating Committee has selected the following slate of candidates for the 1996 BERA Board election: James Durnan, Safety & Environmental Protection Division; Charles Gardner, Alternating Gradient Synchrotron Department; Edward A. Meier, Physics Department; and Rosalie Piccione, Division of Contracts & Procurement.

During the week of March 25, all eligible BERA members, including all employees of BNL, on-site employees of AUI and DOE, and permanent employees of on-site contractors may vote for two of the four candidates to serve on the BERA Executive Board.

Look for more about the candidates and the election in future Bulletins.

Mac Meeting Postponed

The Thursday, March 7, meeting of the Macintosh Users Group, moderated by John Lemmon, has been postponed. When rescheduled, the meeting will be announced in the Bulletin.

Be Social Soon

The next Saturday Social sponsored by the BNL Ballroom, Latin & Swing Dance Club will be held on Saturday, March 9, from 8 p.m. to midnight in the North Ballroom of the Brookhaven Center. All are invited to merengue, tango and fox trot the night away. The suggested contribution is $1 per person which goes into the club's music fund. For more information, call John Millener, social chairman, Ext. 3853.

Service Awards

The following employees had BNL service anniversaries during February:

40 years

Walter W. Becker.....Adv. Tech.
James J. Reilly Jr......App. Science

35 Years

Henry Arnesen.....Physics
Ronald E. Brewer.....Cent. Shops
David A. Comstock.....Chemistry
Paul V. Hough.....Biology
Robert E. Meier.....AGS
Fred Traxel.....Plant Eng.

30 Years

John J. Gould.....AGS
Anthony J. Krupien.....AGS
Neal R. Tempel.....Biology

20 Years

Edwin Casanas.....RHIC
James J. Downing.....Supply & Mat'l.
Susan Norton.....RHIC
Jerome Quigley.....Supply & Mat'l.
Joanne Tallarine.....Adv. Tech.

10 Years

Emmanuel K. Dador.....Occ. Med. Clinic
Guiliano DeGrasse.....Adv. Tech.
Mahamoud L. Firouzbakht....Chemistry
Jane B. Throwe.....Safeguards & Sec.

Daffodil Sale

Again this year, BERA will sell bouquets of daffodils to benefit the American Cancer Society. Each bouquet will sell for $5, and paid orders are being taken at the BERA Sales Office, weekdays, from 9 a.m. to 1:30 p.m.

Pick up reserved bouquets on March 21 & 22, at the BERA Sales Office. Extras will be sold in the Berkner Hall lobby, from 11:30 a.m. to 1 p.m.

For more information, call Andrea Dehler, Ext. 3347.

FBI and BNL Police Team Up

For the first time, a joint training exercise involving the BNL Police Group and the Federal Bureau of Investigation (FBI) will be held on site, from 5 p.m. to midnight on Friday, March 8.

During the evening operation, approximately 75 members of BNL's site-protection force and the federal agency will play out an imagined scenario involving the taking and rescuing of hostages. Since those involved will be simulating reality, they will be in uniform carrying replica weapons, and passersby may see flashing lights and hear sirens and gunshots, though no live ammunition will be used.

Therefore, says BNL Police Captain Michael Delph, those who are not involved with the drill are asked to stay out of the three training areas during the seven hours of the operation: Railroad Avenue by the warehouses, the cottages in the apartment area, and the North and South Rooms of the Brookhaven Center, Bldg. 30. The rest of the Brookhaven Center will be open for employees' usual evening use.

Those who must enter any of these areas during the drill are requested first to call BNL Police Headquarters, Ext. 2238, so a BNL patrol officer may assist in gaining access.

Under orders from the U.S. Department of Energy, BNL's Police Group is required annually to hold a joint training exercise with another law-enforcement agency. Last year, the BNL Police invited the Suffolk County Police Department on site for joint training.

This year, the FBI was invited and accepted the invitation because "the agency has recently become more involved in helping us develop strategies to deter and detect theft of government property on site, particularly the theft of computer equipment, and because the bureau has jurisdiction for the investigation and resolution of crimes committed on site," explains Police Inspector Leonard Butera.

He adds, "This exercise will be good practice for both agencies because each will become more skilled and proficient in protecting the Laboratory."

Coming from Melville, New York City and Westchester County, the FBI agents will arrive around noon and immediately begin familiarizing themselves with the site. At 5 p.m., all will converge to discuss the scenario. The role-playing will begin around 7 p.m., and the drill is expected to end around midnight.

For answers to questions before the drill, call Captain Delph, Ext. 4968.

— Marsha Belford

To Your Health

The following three programs are offered by the Health Promotion Program (HPP) of the Occupational Medicine Clinic (OMC). To register or for more information, call Mary Wood, Ext. 5923.

Weight Watchers

In its approach to weight management, Weight Watchers offers a nutritious food plan, an activity plan and a behavioral support plan. Registration for the next on-site Weight Watchers series will be held on Wednesday, March 6, from noon to 1 p.m. in the South Dining Room of the Brookhaven Center.

For this series, which will last eight or ten sessions depending upon registration, the fee will be $89 for BNL employees, as the Lab pays $10 for each, or $99 for spouses.

Water Aerobics

The pool is not just for swimming: It is a place where swimmers and nonswimmers, the young and the old, the fit and the not-so-fit, and the elite athlete and the physically challenged alike may exercise — by doing water aerobics.

Covering stretching, strengthening and endurance exercises, water aerobics classes will again be held at the Lab pool, from 5:20 to 6:10 p.m., on Tuesdays and Thursdays. The first classes will be on March 5 &7 and will continue for eight weeks.

The classes are free, but participants must pay the pool fee of $2 a session or show their season pool pass. Employees and their spouses may sign up for one or both classes.

Healthline Lecture
Credit Cards

Since physical health is too often tied to financial health, the next Healthline lecture will cover one of the biggest health and wealth threats in many people's lives: credit cards.

Certified public accountant Lisa Kelly will discuss "Income Budgeting: How Credit Cards Can Be Dangerous to Your Wealth" on Tuesday, March 5, from noon to 1 p.m. in Berkner Hall. All are invited; the lecture will be available afterwards on audiocassette in the Research Library, Bldg. 477.

As Kelly will explain, the easy availability of credit cards has seduced many people into spending too much and has wrecked their budgets. After reviewing personal income budgeting, she will discuss managing credit and offer practical advice for those who have extended themselves beyond their limits.

Lisa Kelly, CPA, is an internal auditor employed on site by Associated Universities, Inc. Before joining the internal audit staff in 1994, Kelly worked eight years for the international public accounting firm Arthur Andersen & Company, for which she managed an auditing division and provided accounting, auditing and business-consultation services for medium-sized Long Island firms. She is a member of the American Institute of Certified Public Accountants, the New York State Society of Certified Public Accountants and the Institute of Internal Auditors.

To register for this lecture, complete and return the bottom portion of the Healthline flyer recently sent to all employees by Monday, March 4.

The following program is offered by the OMC's Employee Assistance Program (EAP). To register, be one of the first 40 employees to call EAP, Ext. 4567.

Outreach Workshop
Managing Stress

While stress may be defined as the physical pressure, pull or other force exerted by one thing on another, most everyone has also experienced the mental and emotional strain it causes.

To teach employees strategies for handling stress, "Managing Stress More Effectively" will be the subject of a four-part Outreach workshop sponsored by the EAP.

The workshop will be led by clinical psychologist Susan Dermit, and will be held on March 8, 13 and 27, and April 3, at noon in Berkner Hall. It will be limited to the first 40 people who register.

After discussing what triggers stress and the different physical, mental and emotional responses, Dermit will suggest new responses that can result in making people under stress feel more comfortable and in control. Then, she will present techniques for learning these new stress-response skills and allow time for practice, so participants may apply them to practical situations and have them become a part of their daily lives.

Susan Dermit, Ph.D., is Director of the Behavioral Psychophysiology Laboratory, Associate Director of the Comprehensive Pain & Rehabilitation Center, and an assistant professor in the Department of Psychiatry and Behavioral Science, all at the State University of New York at Stony Brook. She also has a private practice in Port Jefferson.

Upton Nursery School Bake Sale Coming

The Upton Nursery School (UNS) will hold its annual Spring Bake Sale on Tuesday, March 12, from 11:30 a.m. to 1:30 p.m. in the lobby of Berkner Hall. Proceeds will be used to buy much needed equipment for the school.

UNS is a nonprofit, cooperative preschool, which holds classes on site three mornings a week from September through June. Children of Lab employees and guests, on-site AUI and DOE employees, and permanent employees of on-site contractors may attend UNS. For information, call Janice Steski, registrar, 929-3859, or Sue Ellen Gerchman, president, 929-3732.

Attn: BNL Archers

The next meeting of the BERA Archery Club will be held on Thursday, March 7, at noon in the Large Seminar Room, Physics Department, Bldg. 510. New members are always welcome. For more information, call Bill Schoenig, Ext. 2377.

In Memoriam

The following retirees passed away recently:

Walter Wilshusen, who retired on July 31, 1973, after 25 years at the Lab, died on January 20. He was 84 years old. He joined BNL's Police Group on March 15, 1948, as a guard and was promoted to sergeant in October 1950. In January 1959, he transferred to the Health Physics Department as a technician, and he was named senior technical specialist in July 1970, two years before his retirement.

Rebecca C. Williams, who had retired from the Budget Office as a budget administrator on February 15, 1994, died of cancer at her home on the Shinnecock Reservation on February 4. She was 59. She began her 17-year Lab career on February 14, 1977, as a junior accountant in the Department of Applied Science. She moved to the Budget Office on October 1, 1986, when she was promoted to her final title. She left the Lab on long-term disability on February 16, 1993.

BROOKHAVEN BULLETIN

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Golf League

The BERA Golf League (BGA) will hold its opening meeting of the upcoming season at 5:15 p.m. on Friday, March 8, in the lounge of the Recreation Building in the apartment area. Proposed changes to the individual and team league formats, rule changes and tournament schedule will be discussed. League members will receive a mailing on these issues, and they and other golfers are invited to attend.For more information about the meeting or joining the BGA, call Jeff Williams, Ext. 5587.

Ski BERA

Join BERA for a one-day ski trip on Wednesday, March 13 to Brodie Mountain. The bus will leave from the BNL tennis-court parking lot at 5 a.m., with an extra pickup at LIE exit 63, and it will return by 8:30 p.m. The cost of $44 for adults and $38 for children under 12 includes round-trip bus transportation and lift tickets. Ski rentals will be available on the bus.

Purchase tickets at the BERA Sales Office, Berkner Hall. For more information, call Andrea Dehler, Ext. 3347, or Augie Hoffmann, Ext. 3884.

Bowling

Red and Green League

G. Mack 219/203/202/624 scratch series, R. Raynis 245/207/606 series, K. Koebel 224/204, R.Larsen 214/213, E. Larsen 210/204, J. Griffin 265, R. Eggert 245, G. Weresnick 243, S.DiMaiuta 241, K. Asselta 238, K. Riker 223, F. Wahlert 223, R. Mulderig 217, H. Arnesen 214, J. Cuccia 212, B. Sick 207.

Purple & White League

R. Eggert 279/266/215/760 scratch series, M. Meier 277/204/195/676 scratch, S. Frei 223/219/604 scratch, R. Larsen 227/180, J. McCarthy 221/180, Don King 202/191, P. Manzella193/188, Doug Fisher 184/184, M. G. Meier 182/171, K. Botts 210, K. Riker 204, S. DiMauita 200, R. Almasy 192, M. Guacci 191, E. Meier 184, A. Epple 181, D. Botts 171, P. Buonauito 171, S. Frei converted the 6/7/10 split.

Swim Team

At the Asphalt Green Masters Invitational Swim Meet on Saturday, February 24, two members of the BNL Swim Team placed in seven out of the seven events they entered.

50-yard Freestyle

Roger Klaffky	29.27	3rd men 50-54

500-yard Freestyle

Roger Klaffky	7:13.66	2nd men 50-54

50-yard Backstroke

Wlodek Guryn	34.46	3rd men 45-49
Roger Klaffky	35.52	2nd men 50-54

200-yard Backstroke

Roger Klaffky	2:56.36	2nd men 50-54

50-yard Breaststroke

Wlodek Guryn	35.21	1st men 45-49

200-yard Breaststroke

Wlodek Guryn	2:51.23	2nd men 45-49

Basketball

Games on February 22

Magic 87		Bulldogs 85	
Troy Mayo	35	Doug Aichroth	27
Terry Buck	25	Tracey Fountaine	17
Ray Jackson	8	Brian Hobson	12
Pat Browne	4	Jerry Gaeta	11
Fred Molone	4	Jeremy Middleton	10
Robert Singleton	4	Chuck Bennett	4
Mitch Williams	3	Simon Worth	2
Tom Dilgen	2	Pete Ratzke	2
Al Langhorn	2		

Three-point shots: Bennett, Hobson, Mayo, Williams

Mustangs 77		Scram 50	
Jim Desmond	15	John Duggan	20
Kiley Reynolds	14	Jim Rank	10
Wayen Cummings	13	Tim Powers	8
Charlie Edwards	13	Gerry Shepherd	8
Jerry Cook	11	John Skonieczny	4
Hal Van Deroef	6		
Jim Garrison	3		
Greg Mack	2		

Three-point shots: Rank (2), Desmond, Garrison, Powers

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

Softball Meeting

At the BERA Softball League meeting on Wednesday, March 6, at noon in Room B, Berkner Hall, all teams that wish to secure a place in the 1996 softball schedule should submit their commitment fees, For more information, call Joe D'Ambra, Ext. 3764, or e-mail softball@bnl.gov.

Atlantic City Trip

A few seats remain for the next BERA-sponsored, one-day trip to the Trump Castle Hotel and Casino on the marina in Atlantic City, on Saturday, April 13. The initial cost will be $22, but the hotel-casino will give a $15 coin return and a $5 deferred voucher. Buy tickets at the BERA Sales Office, For more information, call Andrea Dehler, Ext. 3347, or Kay Dellimore, Ext. 2873.

Classified Advertisements

Placement Notices

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

Each week, the Human Resources Division lists new placement notices. The purpose of these listings is, first, to give employees an opportunity to request consideration for themselves through Human Resources, and second, for general recruiting under open recruitment. Because of the priority policy stated above, each listing does not necessarily represent an opportunity for all people.

Except when operational needs require otherwise, positions will be open for one week after publication.

For more information, contact the Employment Manager, Ext. 2882, or call the JOBLINE, Ext. 7744 (344-7744), for a complete listing of all openings.

Current job openings can also be accessed via the BNL Home Page on the World Wide Web. Outside users should open "http://www.bnl.gov/bnl.html", then select "Scientific Personnel Office" for scientific staff openings or "Employment Opportunities" or "BNL Human Resources Division" for all other vacancies.

SCIENTIFIC RECRUITMENT - Doctorate usually required. Candidates may apply directly to the department representative named

SCIENTIST/ENGINEER - With several years of experience in the design and operation of Electron Beam Ion Sources (EBIS), especially those using superconducting magnets. Experience in cryogenics, ion source controls and instrumentation, and low-energy ion beam-line design is required. The AGS Department has an active program to study the feasibility of, and eventually to develop, a high-intensity EBIS, to serve in an alternate AGS Booster injector. Contact: Krsto Prelec, AGS Department.

POSTDOCTORAL RESEARCH ASSOCIATE - Trained in chemistry, with experience in kinetics and mechanisms of reactions involving transition-metal complexes. Familiarity with flash-photolysis or pulse-radiolysis techniques is desirable. The successful candidate will conduct mechanistic studies of photochemical systems based on transition metal complexes using flash-photolysis and pulse-radiolysis techniques, and should have experience in the interpretation of complex rate laws. Contact: Norman Sutin, Chemistry Department.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

DD 0061. BIOLOGY ASSOCIATE POSITION - (term appointment) Requires a BS, advanced degree preferred, in biochemistry/structural biology. Practical experience in biochemistry and structural biology, including enzyme purification, organic chemistry, crystallization of proteins, collection of x-ray crystallographic data and structure solving also required. Familiarity with UNIX essential. Biology Department.

Motor Vehicles & Supplies

95 SUNLINE SOLARIS TRAVEL TRAILER - 30', sleeps 8, used only 4 mos., excel. cond., asking $14,000. Mark, Ext. 4898 or 369-0793.

94 GEO METRO - black/gray, 5-spd., 50 mpg, 28k mi., ac, am/fm/cass., 3 yrs. left on factory warr., $6,500. Al, Ext. 3992 or 331-1003.

93 NISSAN MAXIMA - 38k mi.,, a/t, ac, cruise, p/w, P.D. security alarm, stereo, V-6, white/gray int., orig. owner, immac., $14,000. Rich, Ext. 4095.

93 MITSUBISHI ECLIPSE GS - 5-spd., green, ac, p/s, p/b, p/w, cruise, excel. conc., must sell, $7,500. Ext. 2463 or 543-4820.

92 NISSAN SENTRA SE - black, 2-dr., 5-spd., ac, p/s, p/b, cruise, stereo cass., 52.8k mi., excel. cond. 474-1784.

92 METRO - 22k mi., 5-spd., 45 mpg, am/fm, 2 yr. factory warr., blue, excel. cond., $4,200. Joe, Ext. 4496.

91 JEEP COMMANCHE PICKUP - midnight blue, 4wd, 4.0 liter eng., 6-cyl., 48k mi., very clean, $7,500. George, 472-1479.

89 HYUNDAI - red, 4-dr., moonroof, 48k hwy. mi., gar., grandma owned, mint in/out, must see, $2,200. Dennis, Ext. 4028 or 323-3532.

89 HORIZON - 4-dr., a/t, ac, am/fm tape deck, 77k mi., v.g. cond., $2,400. Louisa, Ext. 2876 or 473-8543.

87 TOYOTA CAMRY - 4-dr., a/t, 136k mi., orig. owner, good cond., $2,700. Gail. Ext. 4495.

86 JEEP CHEROKEE 4x4 - a/t, V-6, ac, 4-dr., tow pkg., tinted windows, black, roof rack, runs well, $3,800. Ed, Ext. 7251 or 765-4147.

85 CHRYSLER 5th AVENUE - 4-dr., V-8, fully loaded, leather int., 86k mi., v.g. cond., $2,500. Marvin, 791-4342.

84 CADILLAC ROADSTER - V-8, full power, top & grill, 53k mi., mint cond., $3,700. Brett, 727-5956.

80 MUSTANG 302 - posi rear, new brakes, many new parts, black, sunroof, m/t, reliable. Tammy, 924-8626.

76 CADILLAC SEVILLE - fully loaded, 77k mi., needs brakes, gar., excel. running cond., mint in/out, $4,900. Jim, 767-5108 or 759-3926 after 6 p.m.

TRUCK CAP - Leer, fg, black w/tinted sliding windows, sliding cab window & bed liner for 7' box, mid-sized truck, tailgate liner. Mike, Ext. 4784.

STRUTS - for '79-'81 Honda Accord, front & rear, new, $60. Dennis, 878-0071.

Boats & Marine Supplies

18' GRADY WHITE - runabout, trailer, p/winch, 85-h.p., good cond., $2,500 neg. Chris, 472-5826.

16' SAILBOAT - plywood w/trailer, $150 obo. Dennis, 878-9592 eves.

Furnishings & Appliances

BEDROOM SET - Thomasville, girl's, triple dresser, mirror, boxspring, mattress, headboard, end table, desk, hutch, 2 lamps, $550. Andrea, 588-4882.

BEDROOM SET - 6-pc.; dining room set, glass table, make offer. 924-4688.

DESK - roll-top, 53"w x 25"d x 44"h, 16"x48" top, 7 drawers, 9 pigeonholes, pine, $300; desk & dresser, kid's, white, $50/both. Ken, 369-1473.

DINING ROOM - table, beveled glass, 42"x72", 6 black contemp. chairs, matching mirrored & glass curio cabinet, asking $750. 821-2743.

FREEZER - upright, 15.3 cu. ft., safety lock, white, runs well, $50 delivered. Ed, Ext. 7251 or 765-4147.

FUTON - queen-size; dining table & chairs; TV table, white; end table, glass; desk, child's, best offer. 821-6856, leave message.

KITCHEN CHAIRS - tables, vacuum cleaner, l/r rug, living/dining/bdrm. furniture, lamps, call for other items. TJ, 744-3308.

LIVING ROOM SET - Spanish, couch, 2 chairs, lamp, v.g. cond., $300 firm. Pete, Ext. 5105/4581 or 399-2813 after 5 p.m.

LOVE SEAT - $20; sofa bed, Sealy, $30; dresser, $30; bookcase, $15; kitchen table w/bench chairs, $50; refrigerator, $75. Arnold, 473-6432.

PATIO SET - 6 chairs w/cushions & matching umbrella table, 40"x90", green pvc, covers for all, orig. $2,000, now $1,000 obo. John, 395-5922.

REFRIGERATOR/FREEZER - Kenmore, 2 yrs. old, w/ice cube maker, 20 cu. ft., $350. 929-6932.

SOFA BED - & love seat, sofa opens to queen bed, new Serta mattress, $100/set; water tank, domestic, 80-gal., Well-Trol, $75. Donna, 924-9282.

TABLE - dining room, light maple, 79"x34" plus two 11" leaves, $75. Bob, Ext. 4048.

WASHER/DRYER - gas propane, Maytag, stackable, great for small spaces, large capacity, orig. $1,100, asking $400. Henry, Ext. 5725 or 727-7227.

WASHER/DRYER - $75. 689-7326.

WATER BED - super single deluxe, $50; end tables, oak parquet, parsons, $15/ea. or $25/2; louvered doors for 6" opening, $35. Sue, Ext. 7235 or 399-7997.

Tools, House & Garden

FIREPLACE INSERT- wood burning, $500; freezer, G.E., 6 cu. ft., $75. Chris, Ext. 2972 or 929-5008.

HOT WATER HEATER - Beacon Morris, room in-wall, 4,000 Btu, $75. Dennis, 878-0071.

LAWN MOWER - Sears Craftsman, $160. Ext. 5028.

TABLE SAW - Sears Craftsman, works well, many extras, older model, $250. John, 395-5922.

WATER HEATER - 52-gal., elec., runs well, used 2½ yrs., makes great h/w storage tank, $40 delivered. Ed, Ext. 7251 or 765-4147.

WOOD STOVE - Timberline, air-tight, excel., $300. Jim, 467-7556.

Sports, Hobbies & Pets

BIKE - 16", girl's, $10. 475-8162 after 5 p.m.

CAMERA - Nikon 8008 w/Nikor 35-105 macro zoom, perfect, $600. Steve, 286-1474 after 6 p.m.

DIRT BIKES - 2, 1984 child's Yamaha PW 50, $500; 1993 Yamaha PW 80, $700; $1,000/both; 2 pr. in-line kid's skates. Tori, Ext. 3083 or 727-1978.

EXERCISE BIKE - mint cond., $25. Andrea, 588-4882.

PHOTO EQUIPMENT - Omega 45G monorail w/case, $375; Schneider G-Claron 9/150 w/board, $375; Polaroid 4x5 back #545, $110; more. John, Ext. 5195.

SCUBA GEAR - 2 buoyancy compensators, 2 Sherwood regulators, knife, mask, weights, tanks, excel. cond. Ext. 4252, Beeper 4278.

SKI BOOTS - Koflach, size 9½, front-entry, 4 buckles, used 5 times, excel. cond., paid $300, now $50 obo. Don, Ext. 7237 or 929-6571 after 5:30 p.m.

SKI BOOTS - Norstar, size 7, woman's, never used, $50. Nick, Ext. 3205.

Audio, Video & Computers

CD PLAYER - Onkyo, excel. cond., full-feature, amp., dual cassette deck, need work; 13" b&w TV, works well, $25. Sue, Ext. 7235 or 399-7997 after 5 p.m.

FAX MACHINE - Mita LDC-650, w/extra toner cartridges, uses plain paper, built-in phone, asking $500. Mike S., 5046.

STEREO - Proton amp./rec., CD player cassette deck, 2 Boston speakers. Janet, Ext. 2345 or 929-3910.

TV - 13", color, works, $25; 2 pairs of kid's dirt bike boots; outfits, Moto-X. Tori, Ext. 3083 or 722-1978.

VIDEO GAME - Nintendo, deluxe joystick, NAS Advantage, 18 games, w/TV, $300. John, 395-5922.

VCR - Samsung VHS, hifi stereo, $50. Stephen, Ext. 4477.

Miscellaneous

DEER HEAD - mounted, $75; child's horse bouncer, $15; Italian mirror w/candle holders, $60; lounge chair. Arnold, 473-6432.

DIAMOND RING - 1.13 cts., VS2 clarity, I color, GIA certified, papers, insurance appraisal, platinum setting. TJ, 744-3309.

DIAMOND RING - 0.567 ct., VSi2 clarity, grade G color, 4-prong, solitaire, all papers, $2.500 firm. Chris, Ext. 4216.

TICKETS - 2, Broadway musical, *Sunset Blvd.*, 4/27, 8 p.m., orchestra seats, 15th row, center, $70/ea. Don Bruno, Ext. 5533.

WORKBENCH - Little Tykes, $10. Ext. 5491.

Lost & Found

LOST - women's gold watch, 2/21, area of Director's Office. Carol, Ext. 3325.

Free

UTILITY TABLES - exterior doors, some w/glass valance, some w/adjustable windows, you pick up. TJ, 744-3308.

Wanted

ANIMAL LOVERS - feral cats, need loving homes, already spayed, neutered, shots. Pat, Ext. 7705.

CLARINET - intermediate, wood, aspiring musician, reasonable. Henry, Ext. 5725 or 727-7227.

COSTUMES - for Upton Nursery School dress up; lg. indoor climbing toys; playhouse. Penny, 929-5797.

HOUSE TO RENT - 3-4 bdrms., in Mattituck-Cutchogue SD. Ext. 7657 or 298-9560.

HOUSEMATE - to share 3-bdrm., 2 bath house, in Wading River, w/2 others, nonsmoker, $500 + util. Ext. 5919 or 929-5308.

MARINE FISH ENTHUSIAST - share experiences, chat fish & possibly show off tank setups. Ext. 4617.

OIL TANK - home heating, 275 gal., leaks OK, will dispose of for free. Shane, Ext. 2442.

TICKETS - for Rangers hockey, 2, any night/day. Rod, Ext. 3243.

REFRIGERATOR - in working cond., free or very cheap, will pick up. Paul, Ext. 7733 or 727-4859.

SKIS & BOOTS - cross country, for 4-7 yr. old child & woman w/size 9 foot. Penny, 929-5797.

WHEELS - for child's go-cart. Ext. 5491.

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.*

AUTO CUSTOMIZE - vinyl tops, headliners, convert. tops, sunroof installation, elec. sunroof repair, rugs, some mech. work, brakes. Rob, 395-4521.

BRICKWORK - masonry, patios, walks, swimming pools, retaining walls, landscaping ties, Belgium block, 25 yrs. exp., Lab disc. Tony, 698-9274.

BUSINESS CARDS - many colors, BNL cards available, flyers, letters, envelopes. Mike, 878-3480.

CARPENTRY - doors, trim, closets, siding, decks, repairs etc., neat, reliable, professional, reasonable. Gerry, 981-4518.

CERAMIC TILE INSTALLATION - bathrooms, kitchens, foyers, repairs, etc., quality work, reasonable prices. Patrick, 476-7853.

CHAINSAWS - sharpened, replacement, extra chains, made to order. Bart, 924-6761.

CLEANING - reliable, references, free estimate, come home to a sparkling house. Karen, 467-6146.

DJ - music of the 40s through 90s, any occasion, Lab discount. Robert, 467-2790.

GRAPHICS - print your name, logo, business cards, labels, fliers, T-shirts, anything. Steve, 345-6960.

GUTTERS PROTECTION - system installed, keeps gutters clean and flowing, guaranteed, free estimates, Lab disc. Henry, 727-7227.

HOME IMPROVEMENTS - extensions, dormers, decks, kit., baths, siding, lic. & ins., refs., quality work. Chris, 286-1348.

HOME IMPROVEMENTS - carpentry, complete service, roofing, siding, windows, doors, decks, oak flooring, basements, licensed, insured. Joe, 399-0828.

JEWELER - special orders, repairs, honest, affordable, no job too large/small. Kelly, 821-5239.

LANDSCAPING - grass cut & maint. 286-5403.

LAWN MOWER REPAIR - also tractors, chain saws, snowblowers, fast, reliable, have trailer & will travel. Dan, 698-7322.

LOCKSMITH - sales & service, 10% Lab discount, keys cut during lunch. Pete, 399-2813 after 5 p.m.

PAINTING - prof. marbelizing, ragging, sponging, combine, graining, murals, done on floors, walls, ceilings, trim. Phil, 286-1348.

PAINTING - int./ext., custom colors, stains, power wash, bleach, mildrew, control, fast, neat, reliable, all work guaranteed, insured. Scott, 325-0706.

PIANO LESSONS - experienced teacher, adults & children, NYSSMA evaluation, student recitals twice a year. Jun, 473-8406.

PIANO TUNING & REPAIRS - quality work, reasonable rates. 298-9560.

PLUMBING & HEATING - alterations, repair. Jim Morris, 472-1205.

SHEETROCKING & SPACKLING - free estimate. Kevin Tisch, 567-6621.

TAIJI LESSONS - free for cancer patients. Dejun, 281-3414.

TAX RETURNS - long form & state, $45; short form & state, $20; senior's discount. Michele, 928-2726.

TAX RETURNS - professionally prepared. Tom, Ext. 7287 or 744-4535.

TAX RETURNS - prepared by tax consultant, your home or mine, serving Lab employees for 20 yrs. John, 732-2472.

TREE WORK - 281-2746.

TYPIST - 10 yrs. exp., quick, efficient, will return your work on PC disk, spell-check, no job too big or small. Michele, 369-1438.

VIDEOGRAPHER - capture those precious moments on video, will tape weddings, parties, all occasions. Larry, 281-7240.

Farewell Gatherings

RESCHEDULED RETIREMENT PARTY - for Barney McAlary, Friday, March 15, Brookhaven Center, RSVP Georgia Irving, Ext. 7957, or Rita Kito, Ext. 3320.

Classified Ad deadline is noon Friday for publication Friday of the next week.