# BROWHNEN

BULLETIN

ol. 48 - No. 43 November 4, 1994

the wait.

**BROOKHAVEN NATIONAL LABORATORY** 

# **Ground Broken for Chemistry's Pulse Radiolysis Facility**

Silver shovels were the tools of choice on Wednesday, October 26, when Brookhaven and other officials symbolically dug the first few shovelsful of earth toward what will eventually be a much larger excavation, containing the Chemistry Department's \$3.6 million Pulse Radiolysis Facility.

By 1996, the three-room underground enclosure on the north side of the Chemistry Building, Bldg. 555, will serve radiation chemists from BNL and their collaborators from academia, industry and other laboratories around the world.

They will use the facility as a sophisticated stopwatch, capable of timing and examining the dynamics of chemical species that live only a few picoseconds, or trillionths of a second. To allow them to create those species, a state-of-the-art, 10-million-electronvolt (MeV) radio-frequency photocathode electron gun will be built, the first of its type in the world to be dedicated to chemistry research. It will augment — and be one thousand times faster than — an existing BNL radiation chemistry facility that uses a 45-yearold, 2-MeV Van de Graaff accelerator. And, it will form the core of Chemistry's Center for Radiation Chemistry Research.

Several days before the facility's ground breaking, the contract for the new electron gun's construction was signed with Northrop Grumman Corporation. With funding from the U.S. Department of Energy's Chemical Sciences Division, the company will build the electron gun and beam transport system at its Bethpage plant. Northrop Grumman has developed an expertise in this field through a long-standing collaboration with BNL's Accelerator Test Facility in the Center for Accelerator Physics.

The gun and its related detectors



Wielding silver shovels at the ground-breaking ceremony for the Chemistry Department's Pulse Radiolysis Facility are: (from left) Allan Laufer, U.S. Department of Energy (DOE) Chemical Sciences Division; Frank Crescenzo, DOE Brookhaven Area Office; James Wishart, Chemistry Department, Pulse Radiolysis Facility Project Manager; Chemistry Chairman Norman Sutin; Laboratory Director Nicholas Samios; Robert Botwin, Northrop Grumman Corporation; Robert Hughes, President, Associated Universities, Inc.; and John Axe, Associate Director for Basic Energy Sciences.

will be enclosed in a 3,150-square-foot reinforced concrete vault designed by the Plant Engineering Division and built by Philip Ross Industries of Melville. Because the Pulse Radiolysis Facility encompasses an electron accelerator, concrete and earth are used to provide shielding.

Construction will begin this month. When the facility is completed, passersby will only see a grass-covered mound and an enclosed stairway connected to the main building.

The facility's ground breaking came only after several years planning,

# Lab to Hold

**Public Meeting** 

preparation and paperwork, all over-

seen by project manager James

year until the Pulse Radiolysis Facility is ready for research. When com-

pared with the fleeting reactions that

will be studied at the facility, that may

seem like an eternity. But after five

years of planning and preparation,

the new facility promises to be worth

— Kara Villamil

It will take slightly more than a

Wishart, Chemistry Department.

BNL's Office of Environmental Restoration will hold a public meeting on Wednesday, November 9, to present plans for dealing with certain areas of environmental contamination at BNL. The meeting will be held at the Brookhaven Center, beginning at 7:30 p.m., and employees as well as the general public are welcome to attend.

The meeting will address specific areas in the northeast section of the Laboratory property that are grouped together and called Operable Unit V. The primary areas of concern in Operable Unit V are BNL's sewage treatment plant and related areas adjacent to the plant and along the Peconic River.

The agenda for the evening will include presentations by BNL staff, as well as a question-and-answer period, during which time members of the audience will be invited to comment.

#### **Coming Up**

Maurice Goldhaber, nuclear physicist, former Laboratory Director and now AUI Distinguished Scientist emeritus, will deliver the 300th Brookhaven Lecture on Wednesday, November 16. His talk on "Universal Properties of Fundamental Particles" will begin at 4 p.m. in Berkner Hall.

# **Evacuation Drill Next Week**

Periodically, BNL demonstrates its ability to carry out an evacuation of Laboratory employees in the event of an emergency. Such an exercise is scheduled for the week of November 7. To simulate actual emergency conditions more closely, the exact date and time of the evacuation drill will not be announced beforehand.

Recently, a Safety & Environmental Protection (SEP) Division Information Bulletin was issued to all Lab employees, outlining the procedures that should be taken during a Laboratory evacuation. All employees should review this bulletin and become familiar with their own department or division's Local Emergency Plan. Personnel should be aware of their buildings' assembly points and the procedures to follow when the sirens are sounded and/or there is an announcement over the Plectron radio system.

One frequently asked question is: What should I do if I am a member of a car or van pool? Those attempting to pick up passengers in the usual manner could potentially be exposing themselves to unnecessary risk or creating another safety hazard. For these reasons, car-pool passengers should make alternate arrangements for exiting the Lab, such as evacuating the site with another individual from your building, then meeting your regular car-pool driver at a location off property.

For further information, contact your department/division ES&H Coordinator or SEP Representative.

# Share Your Child-Care Plans



A new survey is on its way from the Women's Program Advisory Committee (WPAC) to find out more about the child-care facilities that BNL employees choose, and how they rate them. The survey of childcare facility usage on Long Island within the past three years will also lay the foundation for a database to be made available to parents seeking information about particular facilities. The committee is attempting to get copies to all employees with young children, and BNLers who return surveys should be willing to be contacted by others interested in the facilities they listed on the survey form. Headed by Victoria McLane (back row, second from left), who began her second term as the Laboratory's Women's Programs Coordinator on October 1, the WPAC also includes the following individuals from whom survey forms may be obtained: (back, from left) new committee member Nina Leonhardt, Ext. 5963; Harriet Martin, Ext. 7761; Hue-Ahn Pham, Ext. 5740; (front, from left) Barbara Schmidt, Ext. 2886; Gail Schuman, Ext. 7985; new member Patricia Durcan, Ext. 5406; and, not shown, new member Marilyn Pandorf, Ext. 5251.

# Inside This Issue:

- Groups & Gatherings Attendees at Federally Employed Women's Training Program . . . Cylinder Recovery Vessel on site . . . Emergency Response Planning Committee . . . B-Physics Workshop . . . Fifth International Conference on Calorimetry in High Energy Physics . . .Rita Colwell gives DAS seminar . . . Confined space rescue training . . . Landfill Technology Workshop.
- Patent Awarded for Microbeam Radiation Therapy; Three concerts Fox Family Bluegrass, tonight . . . Classical musician from India, tomorrow . . . Stony Brook student musicians, November 9.

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# **B-Physicists Raring to Go**

A gathering of 30 physicists attended a B-physics workshop held at BNL's Relativistic Heavy Ion Collider (RHIC) Center on September 23-24.

B-physics involves the study of B, or bottom quarks, first observed at Fermi National Accelerator Laboratory (Fermilab) in 1977. Precision studies of B physics are important for understanding the details of the standard model, especially the effects of CP violation, a phenomenon discovered in 1963 in a Nobel Prize-winning experiment at BNL's Alternating Gradient Synchrotron. B-physics programs are due to start at the Stanford Linear Accelerator Center, at KEK in Japan and at DESY in Germany. They have also been proposed for Fermilab and RHIC — in addition to the existing program at Cornell University.

RHIC will be primarily a heavy-ion machine, but it could also accommodate beams of high-intensity protons accelerated to high energies of around 250 billion electron volts, which would make it a viable place for precision studies of B physics.

At the meeting, reports and discussions were held on the state of B programs at Fermilab, DESY and BNL, including progress in magnet and detector design and computer simulations, and the possibility of U.S. participation in HERA-B at DESY. It was widely hoped that a dedicated B experiment might be launched at RHIC or Fermilab by 2001.

Pictured above are some of the physicists present: (back, from left) Patricia McBride, Fermilab; Sheldon Stone, University of Syracuse; Joel Butler, Fermilab; Roy Schwitters, University of Texas at Austin; Andreas Schwarz, DESY; Michael Marx, BNL and State University of New York at Stony Brook; (front, from left) Paul Avery, University of Florida; Paul Lebrun, Fermilab; Christopher Kennedy, Yale University; Maged Atiya, BNL; and Sebastian White, BNL.

# Landfill Tech Workshop For BNL 'Glasshole' Sites



Technologies that could be used to characterize the contents of "glasshole" disposal areas on the BNL site were the topic of a Landfill Technology Workshop held October 25 and 26 at BNL. Representatives from BNL, other national laboratories, the U.S. Department of Energy (DOE), the U.S. Environmental Protection Agency and consulting firms attended, discussing techniques such as ground-penetrating radar as well as the remediation of BNL's glassholes — small landfill sites used for disposal of glassware, chemical bottles and laboratory animals in the 1960s and 70s. Among those present at the workshop were: (front, from left) Bill Gunther, Office of Environmental Restoration (OER) Manager; Gail Penny, DOE Brookhaven Area Office; M. Sue Davis, BNL Associate Director for Reactor, Safety & Security; Maureen Barcelo, OER staff; James Brower, OER Landfills Project Manager; Jim Paulson, DOE Chicago Operations Office; (back, from left) Robert Howe, OER Deputy Manager; Kathy Geiger, OER Community Relations Coordinator; Jeff Roberts, DOE Chicago; Mark Stahr, DOE Headquarters; and Teresa Baker, OER field engineer.

# **Groups & Gatherings**

BNLers have been busy with a variety of activities these past few months as this photographic sampling shows.

# **Calorimetry Conference Convenes**



From September 25 to October 1, more than 120 physicists working on the cutting edge of particle detection using calorimeters met at BNL for the Fifth International Conference on Calorimetry in High Energy Physics, held annually. Advised by an international committee that included Antonio Erditato (back left in photo above) of the Italian government's INFN lab in Naples, the conference was organized by a BNL committee that included: (back, from left) Sebastian White, Relativistic Heavy Ion Collider (RHIC) Project: Craig Woody, Physics Department; Edouard Kistenev, RHIC; (front, from left) Veljko Radeka, Instrumentation Division; committee chair Howard Gordon, Physics: and conference secretary Doris Rueger, Physics. Several Brookhaven scientists are involved in designing advanced calorimeters to measure the energy, position and timing of electromagnetic and hadronic particles in such large-scale physics detectors as PHENIX and STAR, now being built at RHIC, and ATLAS, proposed for the Large Hadron Collider at CERN, Gordon said, making Brookhaven an appropriate location for the conference.

# The Veni, Vidi, Vici, Visiting Vessel

It came, it saw, it conquered! The visiting Cylinder Recovery Vessel (CRV), wide open in the foreground of the photograph, arrived on site just after Labor Day, and within four weeks had successfully identified and repackaged more than old compressed-gas cylinders. The cylinders, part of the Lab's unwanted



waste legacy from the past, were either faulty or had unknown contents and so could not be accepted by BNL's usual disposal facility. So, said Karl Shurberg, Safety & Environmental Protection Division's (SEP) coordinator for this project, the Lab contracted for the specially designed CRV owned by Earth Resources Corporation (ERC). Standing with Shurberg (center) are ERC's Jim Hendershow (left) and Michael VanDerKarr, SEP. To work the CRV, first, the old cylinder is inserted in the open vessel, the lid is closed, and a vacuum created. Next, the CRV area is evacuated and closed, and remaining operations are handled remotely from an adjoining trailer. The old cylinder is then pierced by remote drilling or by a projectile shot through it. After the escaping vapor is analyzed in the CRV, the identified contents are vacuumed into a new container — one that conforms to present-day waste transportation and disposal regulations.

# Responding to Chemical Emergencies — Planners Meet at BNL

Every company, every laboratory and every government that uses or deals with chemicals hopes it will never have to respond to an accidental airborne chemical release. But these institutions plan for such emergencies anyway, using Emergency Response Planning Guidelines (ERPGs) to identify possible community health effects and to help institute and improve protective measures such as chemical inventory reduction, and tougher control and handling protocols. ERPGs are developed by collaboration among industry, academia and government.

The Emergency Response Planning Committee of the American Industrial Hygiene Association (AIHA), which sets ERPGs for use worldwide, met at BNL on September 13 and 14 — one of four meetings the international body holds every year. Representing BNL was Doan Hansen, (back left) Safety & Environmental Protection Division, who is the technical coordinator for the U.S. Department of Energy's Subcommittee on Consequence Assessment and Protective Actions, which helps contribute to and review the AIHA's ERPGs. Other AIHA members attending were: (back, from left) Larry Gephart, Exxon Corporation Biomedical Sciences; Dennis Anderson, Dow Corning Inc.; John Meagher, American Industrial Hygiene Association; (front, from left) Dave Kelly, E.I. DuPont de Nemours & Company, Inc.; Marc Ruijten, Rotterdam Environmental Health Office, Netherlands; and Finis Cavender, Information Ventures Inc.

# A Few Who Attended FEW Program Will Offer Panel at BWIS Meeting





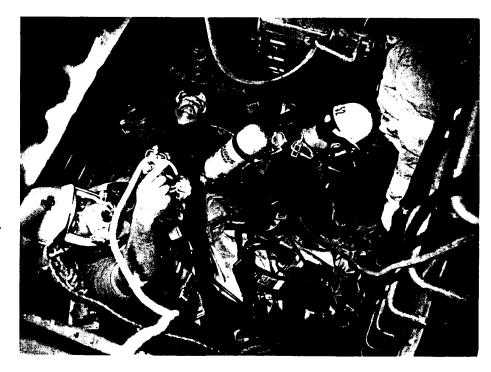
When the 25th National Training Program for Federally Employed Women (FEW) began in Washington, D.C. in mid-July, 24 BNL women were among the 5,000 participants in the five-day conference, which focused on such areas as management skills, communication skills, personal growth, technology, career planning and equal employment opportunity. On Thursday, November 10, at noon in Berkner Hall, Room C, Brookhaven Women in Science (BWIS) will host a panel discussion about the training program, which will include five women who attended — Maria Beckman, Barbara Crothamel, Sharon Jones, Susan Langford and Hue-Anh Pham. Another attendee, Harriet Martin, will act as moderator. All are invited; please bring your lunch.

More than a few of the FEW participants gathered for this photo: (seated, clockwise from left) Rhea Robinson, Safety & Environmental Protection (SEP) Division; Barbara Crothamel, Department of Advanced Technology (DAT); Susan Langford, DAT; Rosemarie Busch, Management Information Systems Division; Antoinette Insolia, Budget Office; Marjorie Chaloupka, DAT; Keisha Mack, Budget; Barbara Cox, SEP; Hue-Anh Pham, Relativistic Heavy Ion Collider (RHIC) Project; (standing, from left) Maria Beckman, DAT; Breffni Medcalf, Physics Department; Louisa Morrison, SEP; Lynn Kalbach, SEP; Nicole Bernholc, SEP; Susan Signorelli, DAT; Sharon Jones, Safeguards & Security Division; and Harriet Martin, Technical Information Division. Not pictured: Susan Agnetti, RHIC; Judy Badal, DAT; Sue Briggs, SEP; Eena Mai Franz, DAT; Elizabeth Gilbert, DAT; Bonnie Hulse, Chemistry; and Nancy Nelson, DAT.

# **Getting out of a Tight Spot**

This daring rescue scene may look as if it came straight out of TV's "Rescue 911." But, luckily, these BNL Fire/Rescue Group employees are only *training* for an emergency, using a scenario in which two "victims" — Jim Yerry, center, and Gary Schaum at far right — are trapped in the close quarters of a valve pit at the Lab's water treatment plant. "Rescuers" C.J. Pinto, left, and Frank Palmeri, wearing No. 52 helmet, both wear self-contained breathing apparatus and colorcoded ropes as they prepare to hoist Schaum and the "unconscious" Yerry out.

The rescue practice came as part of two four-day sessions of confined-space training held throughout October for BNL rescue workers and some fire officials from Ridge and Yaphank. Coordinated by Deputy Chief Michael Carroll and taught by instructors from the Suffolk County Fire Academy, the training also included rescues from 52-centimeter and 91-centimeter pipes and plenty of classroom learning for the 37 students. Confined spaces are special rescue situations because of the potential dangers of smothering gases, low oxygen levels, mechanical hazards and limited exit options. BNL's firefighters were the first in the county to receive the training, which is required by the Occupational Safety & Health Administration, said Fire Chief James Roesler. He and Carroll thanked the 12 instructors, led by Raymond Meisenheimer, and acknowledged the help of the riggers and others in the Plant Engineering Division, as well as on-site contractor ENSR, for helping with the rescue scenario locations.



Photos on these pages by Roger Stoutenburgh.

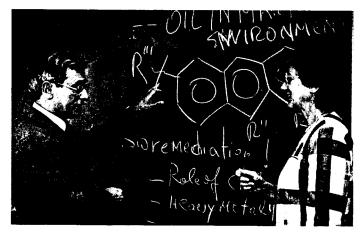
# BROOKHINEN BULLETIN

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# Speaking of Bioremediation . . .



At a September 26 Department of Applied Science (DAS) seminar, Senior Scientist Leon Petrakis, DAS, discusses bioremediation with guest speaker Rita Colwell, president-elect of the American Association for the Advancement of Science (AAAS) and president of the University of Maryland's Biotechnology Institute. Bioremediation harnesses the natural capabilities of certain microbes in order to clean up environmental pollution, and research in the area has given rise to new tools for practical application as well as increased knowledge of microbial processes. The recent visit by Colwell, a microbiologist, may spark new collaborative research between the Institute she heads and any of several BNL departments, Petrakis reports.

#### **Patent Awarded for Cancer Treatment**

U.S. Patent No. 5,339,347 has been awarded to Daniel Slatkin, Avraham Dilmanian and Per Spanne, all of the Medical Department, for their invention of a treatment for cancer that uses tiny beams of x-rays (microbeams) to irradiate tumors. The method, currently only experimental, is called microbeam radiation therapy (MRT). Chemotherapy, surgery and standard radiation treatments can successfully combat some patients' cancers. With MRT, the BNL inventors believe that another potential weapon has been added to the anti-cancer radiation

MRT bombards tumors with an extraordinarily intense field of radiation comprised of many parallel microbeams that are each much thinner and more intense than standard beams of radiation - from 25 to 40 micrometers wide, delivering dose to the target at the rate of 30,000 to 60,000 rad per second. Experiments leading to the patent were done mainly

at the superconducting wiggler insertion device in the X17 beam line of BNL's National Synchrotron Light Source. Only synchrotron-generated x-rays can be used for MRT experiments at present.

Whether applied singly or in "cross firing" combinations that intersect in a tumor, arrays of parallel MRT beams can slow or kill cancers introduced by the researchers into rat brains, while avoiding the irreparable damage to normal brain tissue expected by similar doses from wide beams. The inventors hope that MRT might eventually prove useful in treating deep tumors in the brains of infants and children under the age of three. MRT beams are so intense that radiotherapy would be implemented in a few dozen exposures of a fraction of a second each. Tumors deep in the brain, which pulsate microscopically with the pulsation of brain arteries, can be targeted accurately without inappropriate merging of microbeam-irradiated zones outside the target.

# **Stony Brook Students Return For Second BERA Concert**

A varied repertoire of classical and contemporary music for stringed instruments will be featured at the next BERA concert of the 1994-95 season, on Wednesday, November 9, at 8 p.m. in Berkner Hall.

Promising music students from the State University of New York at Stony Brook will perform Handel's "Cantata for Soprano with Flute and Piano," Schönberg's "Verklarte Nacht" (for string sextet), contemporary composer Amy Beach's "Flute Quartet," and three small works for the solo cello by Henry Dutilleux.

A donation of \$6 is suggested for the performance.

#### **Get Retirement Advice From TIAA-CREF**

A TIAA-CREF representative will visit the Lab on Wednesday and Thursday, December 7 & 8, to answer BNL employees' questions regarding the TIAA-CREF Retirement Plan in one-on-one counseling sessions. Questions might include:

- What are the differences between TIAA and CREF? How should I allocate my money between TIAA and CREF?
- How can I save on taxes? What options and flexibilities do I have for my existing dollars with TIAA-CREF?
- What are my options for the retirement years?

To arrange an appointment, call Joyce Wund, Personnel Division, Ext. 7516,

by November 10.

#### In Memoriam

The following retirees passed away recently:

Anthony Bono, who had retired from the Alternating Gradient Synchrotron (AGS) Department on May 8, 1981, died on September 15. He was 75 years old. He had started in the Physics Department on May 1, 1961, transferring to the AGS in 1971. Two months after his retirement, he returned for a year as a guest technician.

Bronislas Orlowski, who had spent her entire 40-year BNL career in the Technical Information Division, died on September 21. She was 71 years old. She started at the Lab on February 24, 1948, as a secretary and retired as Reports Processing Supervisor on June 16, 1988.

Simon Freed, who had arrived at the Laboratory as a tenured senior chemist in the Chemistry Department on April 20, 1949, died on October 1, at the age of 94. He retired from Chemistry on December 31, 1965, but returned on February 1, 1968, for a 20-year stint as a research collaborator, which ended on June 30, 1988.

Hazel W. Williams, who had retired 31 years ago, died on October 4, at the age of 96. She started working with the Lab's administration on May 26, 1947, as a secretary A. At the time of her retirement on June 28, 1963, she was a senior secretary in the Nuclear Engineering Department.

Francis T. Miles started in the Engineering Department on September 7, 1948, as a senior scientist with tenure. He died on October 9, at the age of 85. He transferred to the Department of Applied Science (DAS) in January 1969, and retired from DAS on March 30, 1973. On April 2, 1973, he began a three-year period as a guest senior scientist in DAS.

John Hennessey, who had retired from the Plant Engineering Division on May 31, 1988, as site manager, died on October 16. He was 65 years old. He joined BNL's Mechanical Engineering Division on January 11, 1960, as a development engineer II.

Thomas J. Dorfer, who had retired from the Plant Engineering Division as a Lab custodian on November 30, 1981, died on October 19. He was 75 years old. He had started at BNL on October 29, 1969, as a janitor in the Plant Maintenance Division. He is survived by his wife Marion, who retired from the Staff Services Division in January 1983.

Joseph Mottl, who had been at the Lab 25 years when he retired on December 29, 1972, died October 19, at the age of 84. He joined BNL on June 10, 1947, as a plumber helper in the Architectural Planning & Plant Maintenance Department. He is survived by his wife Helen, who retired from the Medical Department at the same time that Joseph Mottl retired from the Plant Engineering Division as a plumber.

# Classical Musician From India to Take Berkner Stage

For the third year in a row, BERA's Indo-American Association (IAA) will present a concert by a prominent classical musician from India. This year, Tejendra Narayan Majumdar, who plays a stringed instrument known as the sarod, will appear in concert on Saturday, November 5, at 7:30 p.m., at Berkner Hall.

Tejendra Narayan Majumdar is one of the most outstanding young sarod virtuosos in the tradition of the Maihar Gharana in India. After studying under some of India's foremost musicians, Tejendra Majumdar has participated in many of the great music festivals of India. He has also won numerous honors, including first place in the All India Radio Music Competition in 1981. Accompanying him on the tabla will be Tanmoy Bose.

Tickets will be sold at the door and have been lowered to \$12 for adults, with an additional discount for IAA members; children age 12 and under are free. For more information, call Hasna Khan, Ext. 7028, or Mahbub Khandaker, Ext. 7249.



Tejendra Narayan Majumdar

#### Bluegrass Tonight!

The Fox Family Bluegrass will appear in concert tonight, Friday, November 4, at 8 p.m., in Berkner Hall. Purchase tickets at the door for \$8 each for adults and \$5 each for children under 12, students and senior citizens.

#### **UNIX Training Planned**

The following UNIX-based classes will be offered by the Computing & Communications Division: C++ Programming, December 5-9, \$500; Introduction to UNIX, December 12-16, \$250; C Shell Programming, December 12-16, \$250; Advanced C Programming, January 9-13, \$500; UNIX LAN Connectivity, January 23-24, \$250; PERL Programming, January 23-24, \$250; and Solaris Internals, February 6-10, \$500.

To register for one or more classes, send an ILR for the appropriate amount to Pam Mansfield, Bldg. 515, one month prior to the beginning of each selected class. For more information see last week's Bulletin or, contact Ed McFadden, Ext. 4188, or email, mcfadde1@bnl.gov.

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

#### Wine & Dine **At Stony Brook**

Most of Long Island's wineries, as well as such restaurants as Le Soir and Mirabelle, will be represented at the State University of New York (SUNY) at Stony Brook's annual Autumn Evening's Wine & Food Tasting, on Thursday, November 17.

Hosted by the Campus and Community Committee for Undergraduate Scholarships, the event will run from 5:30 to 8:30 p.m. in the University's sports complex. It will also feature a wine auction.

Admission is \$40 prepaid or \$50 at the door. Attendees must be at least 21 years old. For more information, call Michael McHale, 632-6873.

## **Equipment Demo**

Polaroid Corporation will offer a series of imaging seminars on Tuesday, November 8, from 9 a.m. to 3 p.m. in Berkner Hall, as follows:

- 9-10:15 a.m., metallurgy and materials
- 10:30-11:15 a.m., optical microscopy • 11:30 a.m.-12:15 p.m., electrophoresis
- gel photography 1-2 p.m., law enforcement/security pho-
- tography • 2-3 p.m., imaging science-product fair,

Seating is limited, so register by calling Steve Gogos, Polaroid Technical Representative, (1-800) 336-9672. Ext. 6158.

#### Note to Employees:

end user needs

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

# Pick a Student

Applications for the spring 1995 Science and Engineering Research Semester (SERS) program will be available for review November 2-16, from 9 a.m. to 4:30 p.m., in the Science Education Center, Bldg. 438.

The SERS program is a national educational program sponsored by the U.S. Department of Energy (DOE) with seven participating national laboratories, including BNL. As SERS students, juniors and seniors from colleges and universities nationwide spend a 16-week semester, January 16 to May 5, doing scientific research. DOE supports the students, so individual host departments incur no cost.

A special effort is made to offer minority students research opportunities at BNL, so if your student choice is a minority, you will substantively contribute to this effort. Requests for students must be submitted to Departmental Coordinators by November 17. If you have questions, call the Office of Educational Programs, Ext. 4503.

## **Quit Smoking Monday**

Quit smoking on Monday, November 7 — after the Green Seminar. From 4:30 to 6:30, the seminar will be presented in the Brookhaven Center to all employees and their dependents. who wish to kick the habit with hyp. nosis and behavior-modification.

The cost is \$10 per person for new attendees or free for repeat participants. To register, call Health Promotion Specialist Mary Wood, Ext. 5923.

See Supplement for more notices and Classified Ads.

#### Celebrate Diwali

Diwali, the festival of light, will once again be celebrated by the BERA Indo-American Association (IAA), on Saturday, November 12, from 2:30 to 9 p.m. in Berkner Hall. The festivities will include authentic Indian music, dance and other cultural activities, and all are invited to attend.

Tickets for this event are available from: Anant Moorthy, Ext. 7582 or 744-2499; Ramesh Gupta, Ext. 4805 or 924-8113; Animesh Jain, Ext. 7329 or 474-0056; or Anand Saxena, Ext. 4844 or 689-9771.

If purchased in advance, tickets are, for members of the association, \$8 for adults and \$4 for children ages 5 through 12; for nonmembers, \$10 adults and \$5 children. If still available, tickets purchased at the door will cost \$1 more per adult and 50¢ more per child.

The IAA was formed to promote the culture of the Indian subcontinent through the celebration of festivals, music, dance and sports. Membership is open to all Lab employees and guests, and the fee is \$5 per person.

#### **BERA Book Fair**

On Thursday and Friday, December 1 & 2, BERA will sponsor a Book Fair, featuring fun reading ranging from children's stories and cookbooks to The New York Times bestsellers.

These new, hardcover books will be sold at a 50 to 75 percent reduction. They will be stocked and available for immediate purchase at the fair.

A list of available books and a small pre-sale display will be at the BERA Sales Office beginning Tuesday, November 15, from 9 a.m. to 1:30 p.m., up to the day of the Book Fair.

For more information, call Andrea Dehler, Ext. 3347, or Kay Dellimore, Ext. 2873.

#### Rifle & Pistol Club

Meetings of the Rifle & Pistol Club are held on the second Wednesday of each month, with the next one scheduled for November 9 in Bldg. 911B, Room 202, at noon. For more information, call Otto Jacobi, Ext. 3471.

#### **Art Bus Trip To New York City**

All are welcome to join the Art Society-sponsored bus trip to New York City on Saturday, December 10, leaving BNL at 7:45 a.m. to visit the magnificent new, free Museum of the American Indian near Battery Park and lunch at one of many little restaurants in the City Corp Building on 52nd Street.

Then, go uptown to visit shops if you like, or stay with the bus to see "Origins of Impressionism," which traces how Manet and Monet were inspired by Courbet and others; a powerful de Kooning restrospective; the thunderstorm paintings of Martin Heed of the Hudson River School - in addition to the old-fashioned Christmas tree and other treasures, all at the Metropolitan Museum of Art. At 5:30 p.m., the bus will go downtown to the Rockefeller Center to view the city tree and decorations and to pick up shoppers, then return to BNL by about 8:45 p.m.

Cost is \$17 for the bus, and \$5 to \$7 is suggested for the Metropolitan Museum. For reservations or information, call Liz Seubert, Ext. 2346, 286-

#### Let's Dance

Eight weeks of lessons for beginners in cha-cha and hustle will start on Wednesday, November 16, to be held in the North Ballroom of the Brookhaven Center from 6:30 to 7:30 p.m. Offered by the BNL Ballroom, Latin & Swing Dance Club, the lessons are open to all BNLers, guests, their families and friends; the cost per person is \$20. To register, call Rudy Alforque, Ext. 4733.

#### **Arrivals & Departures**

Robert E. Ern	st Physics
John P. Hale	Saf. & Env. Prot.

**Departures** This list includes all employees who have termi-

nated from the Lab, including retirees James Iuliano ..... .... Cent. Shops Renee M. Tonini ..... Mgmt. Info. Sys.

# Touch Football Champs



three championships of the BERA Touch Football League, attaining their "three-peat" by once again defeating the Untouchables. All from the Police Group of the Safeguards & Security Division, members of the winning team for 1994 include: (from left) Lenny Butera, Mike O'Connor, Chris Saxen, Pete LaSalla, Don MacKay and Jamie Sims. Not pictured: Nick Spinella and Carlos Victoria.

#### Volleyball

#### Standings as of November 1

Open Leagu	ıe	League 1		
The Men and Me 10-2		Network News 8		
GTEAM	7-2	Koopas	4	
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Bud Men	1-11	Safe Sets	1	
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Safe Sets II	7-2	Silver Bullets	6	
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Night Court	2-7	Bonnie's Bombers	1	

#### **Cooking Exchange**

Another potluck lunch will be held by the Cooking Exchange, so bring a dish to share to the Recreation Building on Thursday, November 10. The luncheon will be held from noon to 1:30 p.m., and spouses residing on or off site are invited. For more information, call Daniele Papoular, Ext. 1032.

#### **Atlantic City Trip**

The next BERA-sponsored, one-day trip to Atlantic City will be to the Trump Castle Hotel and Casino, on Saturday, December 10. The initial cost will be \$22, but the hotel-casino will give a \$12.50 coin return and a \$5 return voucher. The bus will leave the Brookhaven Center at 9 a.m., with an extra pickup at LIE Exit 63, if requested. Return will be about 11:45 p.m.

Buy tickets now at the BERA Sales Office in Berkner Hall, weekdays, 9 a.m. to 1:30 p.m. For more information, call Andrea Dehler, Ext. 3347; Rosalie Piccione, Ext. 3160; or Kay Dellimore, Ext. 2873.

#### **Bowling**

Red and Green League

series, J. Cuccia Jr. 245/215/202/662 scratch, R. Eggert 236/219/623 scratch, H. Arnesen 233/227/213/673 scratch, E. Larsen 230/211/200/641 scratch, R. Larsen 231/231/637 scratch, J. Griffin 220/205/ 624 scratch, R. Wiseman 227/606 scratch, J. Goode 224/610 scratch, K. Asselta 243, A. Warkentien 234, R. Raynis 224, B. Giuliano 221, K. Riker 212, M. Palumbo

Purple/White League B. Belligan 216/200, S. Frei 204/182, N. Besemer 202/182, G. Riker 202, J. Butler 194, M. Yanez 187, F. Simes 184, E. Sperry III 184, E. Meier 182, J. Sheehan 181, L. Besemer 181/171, S. Logan 180, K.

## Gateteria Menu

# Monday, November 7

Soup: Beef barley	.90/1.20
A la Carte: Steamed cod w/mustard-beu	rre 3.95
Fitness: Vegetable calzone	2.95
Deli: Pastrami	3.20
Grill: Reuben	
Tuesday, November 8	
Soup: Chicken & rice	.90/1.20
A la Carte: Veal Parmesan	3.95
Fitness: Chicken cacciatore	3.85
Deli: Virginia ham	3.20
Grill: Lamb kabobs	3.30
Wednesday, November 9	
Soup: Vegetarian vegetable	.90/1.20
A la Carte: Chicken primavera	3.85
Fitness: Shepherd's pie	3.65
Deli: Roast beef	3.20
Grill: Monte Cristo	3.30
Thursday, November 10	
Soup: Black bean	.90/1.20
A la Carte: Braised short ribs	4.25
Fitness: Southwestern grilled chicker	n 3.70
Deli: Turkey	3.20

Friday, November 11 — Veterans Day Snack bar service - 9 a.m.to 2 p.m.

Grill: Philly cheesesteak

R. Mulderig Sr. 246/208/640 scratch 211, F. Griswold 205, W. Powell 203.

Batchelor 180, M. Addessi 176/172, M. G. Meier 174.

# BNL Runners Place 1st & 3rd in Relay

Two teams of BNLers competed in the Ninth Annual Ocean-to-Sound Relay on September 26, with impressive results: A team made up of runners from the BNL Roadrunners Club placed first in the corporate category for the second year in a row, while the Armed & Dangerous team



The first-place BNL Roadrunners team: (kneeling, from left) Brian Boyer, Curt Koehler, Paul Geiger; (back, from left) Jennifer McNerney, Trevor Sears, Mel Cowgill and Rich Ferrieri. Not shown: Don McKay.

from the Safeguards & Security Division (SSD) came in third in the law enforcement category, up from a ninthplace finish last year.

The Roadrunners team covered the 50-mile course from Jones Beach to Oyster Bay in 5 hours, 1 minute, 13 seconds -ten minutes faster than in 1993 — and took seventh place overall among 117 teams.

The SSD team also improved on last year's performance, recording a time of 6 hours, 19 minutes, 42 seconds, finishing in 64th place overall.

The race is sponsored by Spiegel Associates, and proceeds are donated to the ASPIRE Program for the rehabilitation of young amputees.



The third-place Armed & Dangerous team: (front, from left) Danny Wilkins, John Pagano, Charlie Edwards, Matt Harrington; (back, from left) Bob Edwards, driver of the team's support vehicle; Richard Thorp, Mike O'Connor, Helmut Thiel and Kenny Baumeister.

**Placement Notices and Classified** Ads are on back of page.

#### Phys. Rev. Has Opening

The American Physical Society (APS) Physical Review A / E Journals seek a parttime Editorial Assistant to work at the Ridge Editorial Office. Responsibilities will be split between the two journals. Must be able to work at least three days a week, between 8 a.m. and 6 p.m., for a total of 19 hours. Minimum requirements are a B.S. in science and the ability to understand mathematical notations. Strong English speaking and writing skills are needed to perform the technical editing, phone contact and written correspondence aspects of the job. Send cover letter and resume to Joseph Igancio, Personnel Manager, APS, 1 Research Road, Box 1000, Ridge, NY

#### 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 made without regard to age, race, color, religion, national origin, sex, handi-

Each week, the Personnel Division lists new placement notices. The purpose of these listings is, first, to give employees an opportunity to request consideration for themselves through Personnel, 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

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 (282-7744), for a complete listing of all openings.

**LABORATORY RECRUITMENT** - Opportunities for

DD 3606. SECRETARIAL POSITION - Requires an AAS in secretarial science or equivalent experience, excellent communication and interpersonal skills and a broad knowledge of Laboratory practices, policies and procedures. Will provide secretarial/administrative support to the Radiological Sciences Division including confidential administrative records, budgets and reports maintenance; will work with and direct the work of other support staff. WordPerfect for Windows 6.0 or Microsoft Word for Windows 6.0. spreadsheets and database software experience essential. Department of Advanced Technology.

#### **Motor Vehicles & Supplies**

93 CUTLASS St-4 LTD - red, 19k mi., ac, ABS, cruise, bucket seats, 4-dr., p/s, p/b, excel. cond., \$13,000.

92 FORD CROWN VICTORIA XL - 23k mi., cranberry, mint cond., moving, \$11,800. 368-6115.

91 DODGE STEALTH RT - twin turbo, 25k mi., gar., immac., asking \$18,500. 286-7554.

89 EAGLE PREMIER - 60k mi., 7/70 warr., p/s, p/b, ac,

a/t, all extras, excel. cond. David, Ext. 4587 or 286-

89 FLATBED TRAILER - tri-axle, elec. brake, set up for pintle hook, good cond. Bob, Ext. 2350.

88 CAMRY WAGON - V-6, p/s, p/b, ac, 89k mi., a/t, very clean, excel. cond., asking \$5,400. Ext. 2551.

88 FORD FESTIVA - am/fm stereo, 54k mi., v.g. cond., \$1,700 neg. Peter, Ext. 4940/1029.

88 HYUNDAI - a/t, ac, 101k mi., very clean, excel. cond., \$1,600. John, Ext. 2769.

88 PONTIAC SUNBIRD - 4-dr., a/t, p/s, p/b, ac, 66k mi., clean, ask. \$5,000. Hankes, 941-4011.

88 VW GOLF - 2-dr., moonroof, a/t, immac. cond., \$3,995. 399-6585.

86 MAZDA 323 - 4-dr. sedan, 4-cyl., a/t, ac, alarm, p/w, p/s, good eng., new tires, exhaust & batt., 86k mi.,

needs trans. work, good cond., \$900. Jim, Ext. 5537. 86 PONTIAC FIERO - new shocks, struts, int. mint, asking \$2,000. Joe, 345-3175 after 6 p.m., leave

85 CHRYSLER LEBARON - 4-cyl., 36,928 mi., one owner, v.g. cond., \$2,400. O. Booker, Ext. 3082 or

85 PLYMOUTH HORIZON - a/t, 64k, one owner, no accidents, good cond., \$950. Ext. 2249.

85 YAMAHA B.W. ATV - 200cc, off-road, 2-wheel, 4-

cyl. eng., asking \$800. Dan, Ext. 4220. 84 MAZDA GLC - 2-dr h/b, 5-spd. m/t, 130k mi.,

maroon, good gas mileage, maint. records, runs well, \$900 neg. W. Guryn, Ext. 3878 or 744-8673.

84 SUBARU WAGON - 4-spd., 4wd, ac, 115k mi., just tuned up, mint, \$850. Tony, 298-1932.

84 VOLVO WAGON - good body, new tires, brakes, shocks, rear suspension pivots, a/t plus od., 100k mi., \$4,000. Ext. 3401 or 744-6229 or SWEET@BNL.GOV.

83 TOYOTA SR-5 TERCEL - 5-spd., m/t, ac, minor rust spots, great mpg., excel. running cond. \$900 neg. Bill, 281-6498.

82 CHEVY MONTE CARLO - no rust, runs well, \$900. Duke, Ext. 7859 or 289-3586.

82 KAWASAKI KX125 - sidewinder chain & sprocket, Boyseed reeds, D6 Type II silencer, new tires, rebuilt top end, \$650. Dan, Ext. 4605 or 475-3527.

82 TOYOTA COROLLA - 96k mi., 4-dr. sedan, am/fm, good cond., \$900. Liaw, Ext. 3207 or 471-4062.

81 BUICK SKYLARK - 2-dr., body excel., new tires & battery, needs work, \$250. Ron, 924-8644.

81 CADILLAC COUPE DE VILLE - 89k mi., good

cond., \$1,100 or best offer. Bruno, Ext. 1373. 81 FORD GRANADA - 6-cyl., good station car, runs well, needs muffler, \$600. Ext. 2816 or 878-1680. 77 BMW 320I - runs, needs work, \$500. Jim, Ext.

76 POSTAL JEEP - right-hand drive, 2wd, running cond., extra jeep for parts, \$300. Bob, 878-5631.

69 CHEVY C-60 DUMP TRUCK - '85 trailer; '79 John Deere bulldozer/loader, 350-C, all good cond., 325-0447 after 6 p.m.

68 CAMARO SS-350 - 4-spd., pcsi, brand-new front end, needs body work, \$2,500. Bob, Ext. 7204.

65 BMW MOTORCYCLE R50/2 - mint, \$4,500 or trade for Harley. 467-1343.

BLAZER PARTS - '78-'79, new windshield, \$100; roofskins, \$75 ea.; doors, \$100 ea.; front/rear fenders. \$75 ea.; rocker panels, \$40 ea. 929-8105 after 6 p.m. TRACTOR - Bobcat bucket loader, model 742 & trailer, two 4,000-lb. axles capacity MFG, custom-

built. Bob, Ext. 2350.

BUMPERS - front & rear, '95 Chevy van, \$100 ea. firm; trailer hitches, class III Draw-Tite, class 1 bolt-on, \$20 ea.; radio, \$60. Don, Ext. 7237 or 744-2921 after 5:30 p.m.

CAP - from 7' Toyota bed, black alum., good cond., make offer. Kathy, Ext. 2281.

CARBS - Holley 600 CFM double pumper, oversize jets, \$150; Holley 750 CFM vacuurn secondaries, \$75. Bob, Ext. 4672.

HITCH - heavy-duty class IV, adjustable, from '75 Caddy, make offer; repair manual, factory repair manual for '89 Toyota Camry, make offer. Jim, Ext. 4617.

INTAKE - Edelbrock tunnel ram, clual guads w/adaptor plates, small block Chevy, \$125 neg. Lois, Ext.

RIMS - 4, 15", 5-lug truck rims, w/35" beach tires, \$50. Frank D. Ext. 2022 or 399-4480.

TIRES - Classic 78II, P195/75B14, plus rims, \$80; Goodyear polysteel radials, P205/75R14 tires, \$100.

#### **Boats & Marine Supplies**

25' AQUASPORT - 1987, 200-h.p. Merc., 9.5 Yamaha kicker, new batteries, Loran, radios, full canvas, excel. cond., \$13,000 neg. 878-0480.

23' SEACRAFT - center console, 3:50 cu. in. Mercruiser i/b, T-top, outriggers, Loran, video, DF, new alum. tanks, \$15,500 firm. Mike, Ext. 4028 or 878-2571.

22' AQUASPORT - 1972, center console; 1979, 175h.p. Evinrude, p/winch; 1978 E-Z Loader trailer, \$4,700; 1982 140-h.p. Evinrude, \$1,800. Ext. 2417.

19' CRUISERS - bowrider, 115-h.p. Johnson, nearly new trailer, p/winch, \$2,200. Jim, Ext. 3372 or 821-

18' HOBIE CAT SAILBOAT - 1990, B&W mainsail, red jib & rudder, gray trampoline, hardly used, 1991 trailer, \$3,200 complete. 473-1456.

BOAT TRAILER - \$160. Joe, Ext. 4139

#### **Furnishings & Appliances**

BED - single, antique Mission oak, good cond., make offer. Ron, 924-8644.

BEDROOM SET - full-size, dark Colonial, dresser, mirror, chest, headboard, footboard, 2 end tables, mattress, boxspring, \$300. John, 928-6791.

BEDROOM - dresser w/mirror, chest, queen headboard, 2 nightstands, \$300 neg. Zal, Ext. 7598.

BEDROOM SET - queen-size, dresser, chest, mirror, hdbrd., ftbrd., country oak, brand-new mattress, boxspring, \$550. Lou, Ext. 7772 or 736-5238.

CHAIRS - 4, Ethan Allen, solid cherry, bow-back, side chairs, American Impressions collection, never used, orig. \$199/ea., now \$149/ea. Eric, Ext. 5875.

COUCH - 2 piece, contemp., L-shape sectional, w/ sofa bed, \$175. Donna, 924-5062.

CRIB - children's, Chesapeake oak, w/mattress, ex-

cel. cond., \$150. 929-3235.

CRIB - port-a-crib, 31/21 x 21, w/foam mattress, \$15. Ext. 2004.

CRIB - oak, w/mattress, changing table, cradle, Jenny

Lind style, asking \$175. Terry, 298-1932. DINING SET - Stanley fruitwood, table w/leaf, pads, 6

camelback chairs, lighted breakfront w/4 doors, excel. cond., \$950. Jutta, Ext. 2671. FILE CABINET - 4 drawers, steel gray, \$20; hutch,

pressed wood, dark, \$50; microwave cart, \$25. 878-

FILE CABINET - 4 drawers, \$40 neg.; bicycle, 10spd., \$65 neg; upright freezer, GE, 15 cu. ft., \$75 or best offer. Steve, Ext. 3018 or 369-5181.

FREEZER - upright, like new, \$200; water purification system, new, \$100, Maryann, Ext. 5252 or 286-3377. HIGH CHAIR - like new, Kant Wet, \$20. Phil, Ext. 5669.

OVEN - Magic Chef, white, elec., self-cleaning, \$250; Panasonic stereo, \$25. Tom, Ext. 7287 or 744-4535. REFRIGERATOR - 5 cu. ft., excel. cond., \$70. Bruno,

SOFA & CHAIR - white wicker, sturdy, indoor, Henry Link, green flower cushions. Steve, Ext. 3822 or 929-

TABLES - 2 end, 1 coffee & 1 oval, dark walnut, like new, \$100. Marty, Ext. 2214.

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TABLES - 2 end, 1 coffee, solid maple, good cond., Colonial, \$125 or best offer; bed frame w/4 drawers, \$25 or best offer. Ext. 3018 or 369-5181.

#### **Tools, House & Garden**

COAL STOVE - Stafford CS-75, used 1 season, orig. \$1,300, asking \$600. Mike, 821-5526.

GENERATOR - 3kW, heavy-duty, Wisconsin engine, \$100. Roger, Ext. 7518 or 878-8847.

OIL BURNER - Riello, high-efficiency, late model, fits std. boilers, excel., \$75. Tom, Ext. 4507 or 878-1060. PAINT SPRAYER - Wagner Power sprayer, model 355E, w/all attachments, \$135. Phil, Ext. 5669.

PATH LIGHTING KIT - Sears, low voltage, 6-light, never used, \$45; dehumidifier, large, \$35. Ext. 2004. PATIO SET - wrought iron, 4 swivel chairs, table, Formica top, indoor, \$200. Marty, Ext. 2214.

TRENCHING MACHINE - Ditch Witch, 12-h.p., excel. cond. Rich, Ext. 4986 or 589-9103.

#### Sports, Hobbies & Pets

BICYCLE - Univega, 27", men's, 15-spd., dark blue, 1 yr. old, hardly ever used, w/helmet. \$250. Jarred, 728-5122.

EXERCISE BIKE - Tuinturi, excel. cond. Brian, Ext.2799. GUITAR AMPS - ADA MP-1 preamp, \$375; Mosvalve power amp, \$350; SKB 4-space rack case, excel. cond., \$90. Howard, 331-5912.

LACROSSE STICK - STX Dominator, hardly used, 1 yr. old, excel. cond. Alex, 929-5945.

PIANO - upright, good cond., \$225. Roger, Ext. 7518

SEWING MACHINE - 9'x12' oval rug; American Flyer sled; guitar; art easel, \$18 ea. Kathy, 744-2203.

SKIS - Hart, 180, size 9-10 Reichle boots, size med. ski pants, all in good cond., asking \$100. Pat, Ext. 4562 or 696-9139.

SKIS - Spaulding Formidable 180, excel. cond., asking \$80. 878-1617.

SKIS - Olin, 180cm, w/Salomon 444 bindings, runaway straps, \$20 neg. Don, Ext. 7237 or 744-2921 after 5:30 p.m.

STAIR MACHINE - Proteus NFP 100, computerized control, like new, \$70. John, Ext. 2769

TREADMILL - motorized, new motor, pro-type, like new, orig. \$400, asking \$225. 924-6751.

#### Audio, Video & Computer

COMPUTER - 286, 16 MHz, NEC multi-sync II monitor, 1.2MB, 1.44MB floppies, 40MB HD, bus, mouse, modem, asking \$290. Steve, Ext. 2897.

COMPUTER - Commodore C-64, color mon., 1541 drives, mouse, tons of programs, blank discs, printer, interface, best offer. Bill, 281-6498.

COMPUTER DISC DRIVE - Commodore 64, Cardoo printer interface, best offer. Joe, Ext. 2148.

MOVIE TAPES - orig., hundreds to choose from, \$1-\$2/ea. Ext. 7496. STEREO - GE, w/cabinet, am/fm record player, r/r tape speakers, \$200; RCA XL-100 color TV, 19", \$75.

Maryann, Ext. 5252 or 286-3377. TV - 27", color, RCA, maple, console, mint cond., \$200. Ext. 7686 or 878-0897.

#### **Miscellaneous**

ANSWERING MACHINE - Phone-Mate, dual cass., \$40; outdoor water pump, antique design, \$20; 1960s Sport and Sports Illustrated magazines. Ext. 2004.

BOOTS - black leather, size 8, worn twice, orig. \$80; asking \$25; Reebok aerobic sneakers, like new, \$15. Diane, Ext. 2347.

CARPET SWEEPER - \$3. Joe, Ext. 2898.

CAR SEAT - Fisher Price, \$25; maple changing table, w/mattress, \$30; lots of infant's toys; boy's clothes. John, 928-6791.

CHRISTMAS - Victorian/traditional trees, 6"/\$6.50, 12"/\$12.50; decorated Victorian/traditional bells, 1"/ \$1.50, 3"/\$3.50, set of 6/\$7. Corinne, Ext. 3662.

DESK SET - Eldon, 9 pieces, taupe color, good cond., \$20. Donna, Ext. 4599.

ENGAGEMENT RING - .75 carat, pear-shaped diamond, high twist setting, appraised at \$2,200, sell for

TICKETS - gift certificates for Radio City, Theatre III, limo service, restaurants, all 20% off. Tom, 736-6691.

TRUNKS - luggage; exercycle; wood ladders; Avon collection; linens; jewelry; toiletries; china plates; spoons; wooden benches. 286-0376

BUNNIES - 3 wks. old, need loving home. 928-5319. VOLVO - 140 Series, including B20 engine workshop manual 129, 3rd edition, 1971, 475-4963.

#### Wanted

AUTOMATIC GARAGE DOOR OPENER - single-car garage. 289-8105.

BOOKCASE - wood, open-shelf cabinet, 4-5' high, but not more than 28" wide; ladder, folding A type, 10' high. John, Ext. 7671.

DOG CAGE - folds for storage, w/bed. Lois, Ext. 3315

FOOD CAN LABELS - Campbells, Swanson, Pepperidge Farm. Maryann Maggio, Bldg. 459 GUITARS & AQUARIUM - 467-1343.

HITCH - class 3, for 1986 Chevy Blazer K5. Jim, Ext. 7912. JUNK CARS/TRUCKS - money paid for running cars. Steven, 924-8741 after 7 p.m.

MARINE FISH - looking for healthy, inexpensive, tropical, saltwater fish. Jim, Ext. 4617.

PING-PONG TABLE - or removable surface in usable condition. Nancy, 821-2652 or John, Ext. 2667.

SUE - need you to call about rabbit hutch, lost your telephone number. Paul, Ext. 3848 or 821-1560.

TUTOR - for intro to Spanish, possibly 2 or 3 sessions to bring me up to speed w/my class. 924-3944.

#### 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. BABY-SITTER - experienced, age 15, avail. after school and weekends, many refs. Melissa, 399-0039.

BABY-SITTER - mature, avail. after school for working parents, experience w/preschool children, 10 yrs. in school. Millie, 696-0139.

BRICKWORK - masonry, patios, walks, swimming pools, retaining walls, landscaping ties, Belgium block, 25 yrs. exp., Lab disc. Tony, 698-9274. CATERING - DLC, no affair too small, home-made

specialties, call for menu, Lab discount, free delivery, stand & Sternos incl. Dave, 696-1927. CERAMIC TILE - installation, all types of tile & marble, kitchens, baths, etc., repairs, reasonable, quality work.

Patrick, 471-7853. CHILD CARE - by licensed, loving mother, impeccable refs. from by BNL employees. Robin, 345-0298. CHILD CARE - mature, responsible mother will care

CHILD CARE - toilet-trained boy or girl to play w/my 3 and 5-yr.-old boys. Tabitha, 341-1001.

for your child in my home, ages 2-5 yrs., weekdays,

Wading River. Mary 929-8613.

CHIMNEY CAPS - and sweeping, fireplaces, wood, coal & oil systems, stainless steel caps, lifetime warranty, pre-fab caps, Lab discount. Mike, 821-5526.

COMPUTER INSTALLATION - repairs and tutoring, on hardware and software, free est.. Steve, 698-5260. DJ/MC - party & dance music from 40s-90s, all occasions, music & entertainment personalized for your affair, BNL refs. Lou, 698-8210.

DJ/MC - professional, rap, club, house, & 50s, all occasions, demo tape, avail., refs. Alex, 286-0575.

ELECTRICIAN - outlets, switches, lighting, repairs, service upgrade, alterations, lic./ins. Steve, 758-7002. ELECTRICIAN - residential and commercial, reasonable. Timothy, 331-4683.

FINANCIAL EVALUATION - of insurance program, retirement planning for pension maximization, tax savings. Rich, 744-4816.

HANDYMAN - odd jobs, painting, etc., dirty deeds done, cheap. Frank, 399-4480.

HOME IMPROVEMENTS - extensions, dormers, decks, kitchens, baths, siding, roofing, lic. & ins., refs., free est. Chris, 286-2780 or 286-1348.

HOUSE CLEANING - houses, condos, apts., offices, dependable & reliable. 924-8741. IRONWORK/WELDING - ornamental railings, win-

dow & door guards, truck racks, repairs, snow plows a specialty, resid. & comm. Anthony, 298-1932. JEWELER - special orders, repairs, honest, afford-

able, no job too large or small. Kelly, 821-5239. LAWN MOWER & LAWN TRACTOR - repairs and service, reasonable rates, fast service, have trailer, will travel. Dan, 698-7322.

LAWN SPRINKLERS - automatic systems, prof. installed, repairs, alterations, spring turn-ons & winterization service. Lou, 928-7042. LETTERING-AIRBRUSHING-STRIPING - vehicles,

boats, helmets, jackets, jet skis, storefronts, window splashes, paper signs. Gary, 549-9113. LOCKSMITH - sales & service, 10% Lab discount,

keys cut during lunch. Pete, 399-2813 after 5 p.m. MAILBOXES - custom-made house & post boxes, many styles and colors, free catalog, Lab discount.

Mike, 821-5526. MASSAGE THERAPY - for health, licensed, reasonable rates. Kathy, 399-6585.

MECHANIC - all phases of automotive repair, reasonable rates. Brett, 929-4753 eves.

ODD JOBS - painting, yard work, minor repairs, very reasonable. Terry, 758-9775. PAINTING-interior/exterior, Sheetrock, tape, spackle, wallpaper, stain, powerwash, insured, refs. James,

399-4912 PARTY FAVORS - chocolate, bridal and baby showers, weddings, birthdays, etc. Cathryn, 821-7327.

PLUMBING & HEATING ALTERATIONS - repair work by retired BNL employee Jim Morris. 472-1205. SHEETROCKING & SPACKLING - free estimate. Kevin,

SKIN CARE & MAKEUP CONSULTANT - nail care, facials, men's line, body care, free first time facial, cosmetic gift baskets. Barbara Jean, 929-3235.

TAPING/SPACKLING/PLASTER REPAIR - int./ext. painting, wallpaper removal, skin coating, walls,

Sheetrock repair. Dennis, 929-5524. TREE CUTTING - 281-2746.

TUTOR - high school or college-level math, my home or yours, reasonable. Ed, 821-5867.

TYPING - resumes, term papers, letters, etc., laser printer, fast service, pick up and drop off. Willie or Cathryn, 821-7327.

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

#### In Appreciation

I would like to thank the BNL Lifeguard on 10/22 for helping with the success of my grandson's birthday - James L. Davis

My thanks to all who expressed their congratulations and best wishes to me upon my retirement. I gratefully appreciated your thoughtfulness and gifts. God bless Charles Seaton

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