

## Larese, Passell Win DOE Materials Science Award

For their sustained outstanding research in the field of materials chemistry, John Larese of the Chemistry Department and Laurence Passell of the Physics Department have won DOE's 1998 Materials Science Award. The cash award of \$50,000, which will be used for research, recognizes their pioneering work on neutron scattering studies of films adsorbed on graphite and magnesium oxide surfaces.

Using neutron scattering, Larese and Passell investigated the formation of single- and multilayered solid, liquid and gas films on crystalline surfaces by a process known as adsorption. Unlike absorption, adsorption is the retention of solid, liquid or gas molecules, atoms or ions on the surface of a solid or liquid.

By analyzing and studying the way neutrons scatter from the films, they were able to identify the structure of these films and, in some cases, obtain information about how the atoms interacted with each other and with the atoms from the crystalline surface.

Specifically, they were able to determine how the atoms were arranged in the solid films and explore the changes that accompanied solid-to-liquid melting at the atomic level. To that end, Passell and Larese were the first to investigate on an atomic level how layer-by-layer film growth and melting proceeded on a multilayered argon film adsorbed on graphite.

Today, materials scientists antici-



Laurence Passell and John Larese

pate that improved understanding of adsorbed, or over-layer, film properties will lead to new insights into the microscopic-scale mechanisms involving adhesion, corrosion, lubrication and catalysis.

"When Passell and coworkers began this work in the early 1970s, no one dreamed that a single layer of atoms adsorbed on the surface of a crystal could be studied using neutron scattering. And now, Larese uses this technique routinely to explain how

single and multi-layers of atoms form and melt on crystalline surfaces," said Denis McWhan, BNL's Associate Lab Director for Basic Energy Sciences. "Together, Larese and Passell have initiated a whole new field of inquiry."

Passell's interest in materials science dates back to his days at the University of California, Berkeley, where he earned his M.A. in 1952 and his Ph.D. in physics in 1955. Passell then worked as staff scientist for five years at Lawrence Livermore Labora-

tory. In 1961, Passell moved to Riso National Laboratory in Denmark.

Passell's 32-year career at BNL began when he joined the Physics Department in 1963; he received tenure in 1967. In the 1970s, working at BNL's High Flux Beam Reactor, he laid the foundation for neutron studies of adsorbed films. Although he retired in 1995 as a senior scientist, he continues to work at the Lab as a consultant.

A Fellow of the American Physical Society, Passell is also a member of the prestigious Sigma Xi Society, which nominates scientists and engineers who have demonstrated noteworthy achievements in research.

Larese began his collaboration with Passell in 1979 while a graduate student at Wesleyan University where he earned a Ph.D. in physics in 1982 for studies of adsorbed molecular films. During a postdoc at Pennsylvania State University, 1982-85, he developed an interest in surface diffraction and began using helium-atom scattering to explore the properties of surface films.

In 1985, Larese began his career at BNL as a member of the Physics Department, moving to the Chemistry Department in 1987. He received tenure in April 1992. Like Passell, Larese is a member of the Sigma Xi Society. He was also a part of the BNL team that won DOE's 1988 Materials Science Research Competition.

## BSA Distinguished Lecture Science Fraud and the Baltimore Case

The relationship among science, politics and the public will be examined by author Daniel Kevles on Friday, February 19, when he discusses "Scientific Fraud in American Political Culture: Reflections on the Baltimore Case," as part of the Brookhaven Science Associates Distinguished Lecture Series. Kevles, who is a humanities professor at the California Institute of Technology (Cal Tech), will give his talk at 4 p.m. in Berkner Hall. Refreshments will be served before and after the talk.

As Kevles will relate, molecular biologist David Baltimore won the 1975 Nobel Prize in Physiology or Medicine for his research on the interaction between tumor viruses and the genetic material of the cell. Subsequently, he did extensive research on how genes control the immune system, the behavior of viruses that trigger cancer, and the disease-causing mechanisms of the polio and AIDS viruses.

Baltimore's lab at the Massachusetts Institute of Technology (MIT) was world-renowned. Nonetheless, in 1986, Margot O'Toole, a postdoctoral fellow in the lab, questioned the scientific integrity of her supervisor, Thereza Imanishi-Kari, citing a paper that Imanishi-Kari and five others — including Baltimore — had published in the journal *Cell*.

O'Toole's complaint led to public hearings on the case by Congressman John Dingell, widespread media coverage, Imanishi-Kari's provisional conviction for scientific fraud, and Baltimore's forced resignation from the presidency of Rockefeller University. In 1996, Imanishi-Kari was found not guilty on appeal.

Why did the case command so much attention? Sharing the insights published in his book, *The Baltimore Case: A Trial of Politics, Science and Character* (W.W. Norton, 1998), Kevles will explain that the case was about the

American public's and politicians' trust in scientists, and, ultimately, how to hold scientists accountable to the public, who pay for their experiments.

Kevles earned both his 1960 B.A. in physics and 1964 Ph.D. in history from Princeton University. Joining Cal Tech in 1964 as an assistant professor of history, in 1986 (cont'd. on page 2)

Daniel Kevles

## 343rd Brookhaven Lecture Cleanup Technologies at BNL: Old, New

When groundwater is contaminated below a site that is unsuited to a conventional cleanup method such as pumping it up and treating it above ground — what can be done?

One answer is to use what is called "in-well sparging," an innovative technology that allows groundwater to be cleaned up in place. Designed and successfully tested on

Lab property by BNL engineers, in-well sparging will be used for a groundwater treatment system now under construction off site, where it is impractical to use other methods.

However, if both the soil and the groundwater are contaminated at the same location, the tried-and-true combined air-sparging and soil-vapor-extraction technique is probably the best choice, because it simultaneously cleans both soil and water.

To talk about various cleanup technologies used at the Lab, Bill Gunther, senior environmental management advisor in the Environmental Management Directorate, will give the 343rd Brookhaven Lecture: "Technologies Used for Environmental Restoration at BNL." Gunther will be introduced by Michael Schlender, Assistant Laboratory Director for Environmental Management, at 4 p.m. on Wednesday, February 24, in Berkner Hall.

Since 1989, the Lab has been a federal Superfund site, as 1/20th of its acreage was contaminated with haz-



Bill Gunther

ardous and/or radiological waste due to past use and disposal practices. The Lab's cleanup is about halfway completed. By 2006, all contaminated soil will be cleaned, and all groundwater-treatment systems will be operating.

Over the last five years, several techniques have been employed in the cleanup effort on and around Lab property. In his talk, Gunther will describe how these technologies are evaluated and selected for use. He will also discuss the potential applications of other such technologies, some of which are BNL-developed.

For Gunther's talk, posters illustrating the cleanup technologies will be set up in Berkner lobby, and engineers and scientists from the Department of Advanced Technology (DAT), the Department of Applied Science and the Environmental Restoration Division will be on hand to answer questions.

Gunther earned a 1970 B.S. and 1971 M.S., both in electrical engineer- (continued on page 2)

# BNL Adopts New Standard for Environmental Management: ISO 14001

BNL is implementing a new environmental management system (EMS) which adopts the International Standards Organization's (ISO) 14001 standard for environmental management. ISO 14001 provides a framework for BNL to plan, monitor and improve environmental performance, and the new Brookhaven system will also increase emphasis on regulatory compliance, pollution prevention and community outreach.

Established in 1996 by ISO, a worldwide federation of national standards bodies from 130 countries, ISO 14001 specifies requirements for managing environmental activities. The ISO 14001 standard requires companies to be committed to comply with applicable environmental legislation and regulations, and continually to improve their environmental performance.

In following the ISO 14001 standard, the Lab joins hundreds of organizations — including Lucent Technologies, Ford Motor Company and several DOE sites. Companies that adopt the standard must identify all of their activities that can significantly impact the environment and then develop a systematic approach for eliminating, minimizing or managing environmental impacts. Employee environmental training, comprehensive self-audits and expanded pollution prevention are some of the initiatives that BNL is implementing to ensure that the program is on track.

Brookhaven's new EMS fulfills contractual commitments made by BSA when it took over as the Lab's manager. While it is estimated that EMS will cost \$2.74 million to develop and



**Instead of employing a water-treatment system that uses hazardous chemicals, Engineers Bruce Abel and David Phillips (kneeling fifth and sixth from left) researched and found what is called a side-stream system for the BRAHMS experiment at the Relativistic Heavy Ion Collider (RHIC). Installed last November, this system (center) employs benign materials and chemicals to control algae, bacteria, corrosion and particulate in the experiment's cooling water. Abel, Phillips and Steve Musolino (left), who is responsible for RHIC's ES&H, are proud of this system as an example of an environmental-management success story. They are sharing their experience with EMS Project Manager Susan Briggs (second from right) and the rest of the EMS project team: (from second from left) Achyut Tope, Environmental Restoration Division; George Goode, Environmental Services Division; Beth Schwaner, Human Resources Division; Doug Ports, Reactor Division; and Steve Stein, Quality Management Office.**

implement, its advantages are numerous, according to Susan Briggs of the Environmental Services Division (see story below), who is in charge of implementing the new system.

"The Lab will save money through pollution prevention, reduced disposal costs and the elimination of environmental infractions that would make Brookhaven subject to fines and/or

the shutdown of facilities," Briggs said.

"The new system integrates sound environmental management practices into all aspects of the Lab's operations. It will implement controls to minimize adverse impacts to the environment, eliminate pollution sources when possible and ensure compliance with regulatory requirements," Briggs added.

Further, she continued, "We hope that the systematic approach and improved performance that we expect as a result will allay community concerns about the effect our activities are having on the environment and establish the Lab's reputation for responsible environmental stewardship."

Initially, BNL will pilot its ISO 14001 implementation within three programs.

One of the pilot programs is in the Reactor Division, which is in charge of the Brookhaven Medical Research Reactor and the High Flux Beam Reactor. The latter has been shut down since December 1996.

Also participating in the pilot program will be the Waste Management Division and the Relativistic Heavy Ion Collider Project.

The balance of facilities at the Laboratory will join the new environmental management project in the summer of 1999.

Briggs explained, "We plan to implement the ISO 14001 criteria fully throughout the Laboratory by fiscal year 2000, and undergo a third-party, independent audit by an ISO-certified registrar at that time." The independent audit will lead to registration of Brookhaven's EMS, which will attest to its integrity. — Diane Greenberg

## Gamma Forest Update Intel Finalist Talks Ecology on Tuesday

You could say that Smithtown High School senior Nick Superina (below, center) really got into his ecology research project — "The Gamma Forest at BNL: A Geobotanical Analysis" — for the 1999 Intel Science Talent Search: He is standing at the center of Brookhaven's Gamma Forest, in the lead-lined pit that once housed the gamma-ray source used to irradiate nearby vegetation.

One of 40 Intel finalists who will go to Washington, March 3-8, when the ten winners will be selected, Superina studied how vegetation in the 123-acre Gamma Forest is recovering from the radiation-exposure experiment that ended nearly 20 years ago.

His advisors for this study were: (from left) Environmental Services Division (ESD) technical collaborator John Black and the Lab's ecologist Jan Naidu, ESD.

Superina will present his findings next Tuesday, February 16, at 10:30 a.m. in the Hamilton Seminar Room of the Chemistry Department, Bldg. 555. In addition to being informative, the talk will serve as a rehearsal for his presentation to the Intel judges, who will select the ten winners. The top prize is a \$50,000 scholarship.

BNL ecologist George Woodwell started the Gamma Forest experiment in 1961 at the height of the Cold War, to examine the effects of radiation on an intact forest. One of the members of Woodwell's team, BNL Senior Cytologist Jack Van't Hof of the Biology Department, will introduce Superina's talk with a description of the original experiment.

The forest lay unexplored from 1979 until last year, when Black and Naidu noticed the revegetation of the trees in the center of the Gamma Forest. As one of the students in Black's summer field-study program offered through Suffolk Community College, Superina became fascinated with the forest, and so he began analyzing its plant distribution and soil chemistry. Before any study

began, the area was surveyed by a BNL health physicist to ensure that no one would be exposed to radiation while performing research.

In addition to Black and Naidu, BNLeers who assisted Superina with his research are: Neal Tempel, Biology Department; Cathy Green, Information Services Division; and retiree James Clinton. Smithtown science teacher Elaine Champney of Smithtown also served as a mentor.



## Briggs Elected to Environmental Post

Susan Briggs, project manager for the Environmental Management System (EMS) in the Environmental Services Division, has been elected to a council established by the American National Standards Institute Registrars Accreditation Board.



Susan Briggs

The council manages the EMS national accreditation program governing the accreditation of ISO 14001 auditors and trainers.

The ISO 14001 standard is the widely accepted official international standard that businesses use to manage their environmental obligations. It was created by the International Organization for Standardization, a worldwide federation of more than 120 member-countries that encourage businesses to comply with strict environmental management standards. Brookhaven is in the process of implementing the ISO 14001 standard (see story above).

Briggs joins an 18-member board that oversees the accreditation process for the ISO 14001 program. Briggs, who earned a B.A. from Harvard University in natural sciences, with a concentration in environmental science and statistics, worked at the Harvard University School of Public Health before joining Brookhaven in 1991.

## BNL Lecture: Gunther (cont'd.)

ing from Northeastern University. He managed fossil-fuel and nuclear power-plant operations at the Long Island Lighting Company for 15 years before joining DAT in 1984 as a senior research engineer.

In 1994, he became manager of BNL's Office of Environmental Restoration, with overall responsibility for planning and carrying out the Superfund cleanup program at the Lab. For six months during 1997-98, he served as BNL's Interim Associate Director for Reactor, Safety & Security. Currently, Gunther coordinates, evaluates and reports on the status of BNL's environmental activities.

Refreshments will be offered before and after the lecture. Those who wish

to join the lecturer for dinner at a restaurant off site may call Beth Blevins, Ext. 5630, by noon on Wednesday, February 24.

— Diane Greenberg and Liz Seubert

## BSA Lecture: Kevles (cont'd.)

he became the J.O. and Juliette Koepfli Professor of the Humanities, his current position. He has authored *In the Name of Eugenics: Genetics and the Uses of Human Heredity* and *The Physicists: The History of a Scientific Community in Modern America*.

A fellow of the American Association for the Advancement of Science, Kevles is a member of the American Academy of Arts & Sciences and the American Philosophical Society. — Diane Greenberg

## New Cold Food Vending Service

This week, a new contractor, Werner Brother's Vending, began offering vending services at BNL. As a result, a range of fresh sandwiches, bakery items and beverages are now stocked in on-site vending machines available 24 hours a day.

In addition, customers may make requests for items by using the note boards posted on the machines, and the vendor will deliver requests to those machines the next day.

The vending machines are located:

<b>department</b>	<b>bldg.</b>
Alternating Gradient Synchrotron	912
National Synchrotron Light Source*	725
Upton Branch of the U.S. Post Office	179

\* Located in a controlled area; TLD badge or trained escort required.

## Spring Fling March 19

All BERA members and their guests are warmly welcome at BERA's third annual Spring Fling, to be held on Friday, March 19, at Knights of Columbus Hall in Patchogue, from 6 p.m. until . . . The cost of \$8 in advance and \$10 at the door includes hors d'oeuvres and music by E.T.; a cash bar will be available. Obtain tickets from Charles Gardner, Ext. 5214, or Luis Nieves, Ext. 4897.

## Daffodil Sale

This year again, Berkner Hall will bloom with daffodils as BERA participates in the American Cancer Society's daffodil sale.

Each bouquet will cost \$6. Paid orders can be placed at the BERA Sales Office, 9 a.m.-1:30 p.m., Tuesday through Thursday. The orders will be ready for pickup between 11:30 a.m. and 1 p.m. on Thursday and Friday, March 25 & 26.

## Bowling

### Red and Green League - 2/2

M. Meier 265/255/221/741 scratch series, K. Koebel 243/211/201/655 scratch, R. Larsen 240/225/214/679 scratch, E. Larsen 226/214/212/652 scratch, T. Sullivan 245/242/681 scratch, R. Mulderig, Sr. 236/205/632 scratch, J. Giuffre, 223/201/610 scratch, J. Sullivan 220/203/613 scratch, J. Griffin 212/206/600 scratch, O. Mirjah 234, L. Mulderig 229, J. Meier 223, D. Schiappa 220, G. Mack 211, A. Pinelli 211, B. Yanofsky 206.

### Purple and White League - 2/4

B. Mullany 246/221/199/666 scratch series, D. Keating 212/197, B. Rothe 181/170, J. McCaffrey 216, J. Zebuda 215, G. VanSickle 24, M. Guacci 200, J. Addressi 199, S. Rothe 190, T. Blydenburgh 177, Donna King 175.

### Scotch Doubles Tournament

All BNL bowlers, their family and friends are invited to enjoy a day of fun at the annual Scotch Doubles Tournament, to be held on Sunday, March 7, starting at 1:30 p.m. sharp at Port Jeff Bowl.

The cost, which is \$32 per couple before March 3 or \$35 per couple thereafter, includes bowling, prizes and a buffet. For more information or applications, which are due by March 3, contact: Debbie Keating, Ext. 3888, Bldg. 355; or Tracy Blydenburgh, Ext. 4422, Bldg. 750.

## RHIC Open to the General Public One More Time Before the 'Big Chill'

On Saturday, February 20, between 9:30 a.m. and noon, BNL's Relativistic Heavy Ion Collider (RHIC) will again be open to the public for free, guided tours. These half-hour tours — which will take visitors through the \$600-million collider's underground tunnel and past its superconducting-magnet rings and major detectors — will be a last-chance opportunity to see this futuristic facility before it begins the "big chill" — during which the temperature in the rings will be reduced to near absolute zero — and operations by this summer.

So BNLers are invited to bring their families, friends and neighbors to see what will be the world's highest energy collider of heavy ions, in which physicists from around the world hope to recreate conditions that last existed at the time of the Big Bang and create a form of matter that has not existed since immediately after the birth of the universe.

Reservations, however, are required. To make a reservation, call Arlene Waltz, Ext. 7807, by Tuesday, February 16.

## BNL's Children Make Themselves Heard



Victorian conventional wisdom is that children should be seen, but not heard. However, even the Victorians, if they were around today, would want to hear the music produced by at least two BNLers' children, pianist Eric Sun (left) and cellist Benjamin Kalb (right), who graced the Berkner Hall stage last October with their music-making.

Ten-year-old Eric Sun, who is the son of Casper Sun, Information Technology Division, and 17-year-old Benjamin Kalb, who is the son of Paul Kalb, Department of Advanced Technology, played Berkner Hall during a master class at BNL organized by the Port Jefferson Arts Council. To attend this class, each was nominated by his school: Sun by Longwood Junior High School, and Kalb by the Shoreham-Wading River High School. As a result of school nominations, Sun, Kalb and two others received the opportunity to have their individual performances critiqued by renowned music professors.

"Participants got hands-on instruction from music professionals that ordinarily students of music would not receive," said Port Jefferson Art Council's Music Programming Director Allan Varela, who explained that the purpose of these master classes is to expose local gifted students in the greater Port Jefferson area to the faculty of the Music Department at the State University of New York at Stony Brook. The next master class is scheduled for April.

Sun is no stranger to the stage or to Berkner's Steinway grand piano, as he has been giving concerts and competing since the age of seven (See Brookhaven Bulletin, September 20, 1996). In the last few months, Sun has won many firsts in national and international piano competitions, which have included the European Category, division B, of the Queens College Cultural Heritage Competition, and the III Sonata and Sonata International Youth Piano Competition. In fact, after winning first place last June in the New York Music Festival Piano Competition in category B, Sun was asked that September to perform the winners' recital at Carnegie Hall — one of his goals.

Like Sun, Kalb too is a veteran of music performances. At home, he has performed with the string orchestra and symphony orchestra of the New York All-State Festival and with the Young Artists' Orchestra at the Boston University's Tanglewood Institute. Abroad, Kalb played in Japan, China, Korea, Macau and Thailand as a member of the Long Island Youth Orchestra on its 1997 summer concert tour. Recently, Kalb received the Long Island String Festival Association Studio Award for Suffolk County.

— Amena Saiyid

## Cancer in Perspective

On Tuesday, February 23, epidemiologist and cancer investigator Geoffrey Kabat will discuss "Putting Cancer in Perspective," during the next Healthline lecture. Sponsored by the Health Promotion Program (HPP) of the Occupational Medicine Clinic, Kabat's talk will be offered at noon in Berkner Hall. All are invited.

To register for this Healthline lecture, return the bottom portion of the Healthline flyer to be sent to all employees to Health Promotion Specialist Mary Wood, Bldg. 490. For more information on HPP and its Healthline lecture series, call Ext. 5923.

## Fidelity Counseling

A Fidelity Investments representative will be at the Lab on Tuesday, March 9, to hold individual sessions with employees interested in learning more about their retirement-savings and investment options.

To schedule one of the 30-minute appointments, call (800) 642-7131.

## Cope With Change

A two-part Outreach workshop on "New Skills and Approaches to Stress Management and Coping With Change" will be held at noon on Tuesday, February 16, and Friday, February 26, at noon in Berkner Hall. Sponsored by the Employee Assistance Program (EAP) of the Occupational Medicine Clinic, the presenters will be psychologists Val Brown and Susan Dermit, and all are invited.

To register for one or both parts of this Outreach workshop, return the bottom portion of the Outreach flyer sent to all employees to EAP Staff Psychologist Dianne Polowczyk, Bldg. 490. For more information on EAP and its Outreach lecture series, call Ext. 4567.

## Equipment Demo

On Friday, February 19, Blue Ridge Numerics will demonstrate its new software, CFDesign Finite Element Analysis (FEA) Solver, at 9 a.m. in the Information Technology Division seminar room, Bldg. 515. This software simulates any fluid type, reads AutoCAD and ProE files, and integrates other FEA programs.

For more information, call Chris Neuberger, Ext. 4160, or go to <http://www.brni.com>.

On Tuesday, February 23, Tri-State Technologies will exhibit vacuum products by Leybold and NOR-CAL, 10 a.m.-3 p.m., at Berkner Hall. Representatives from these companies will be present to answer questions.

To find out more about the exhibition, call Tri-State Technologies at (908) 654-9327.

## Holiday Notes

*In observance of Presidents' Day, the Lab will be closed on Monday, February 15, and there will be no Brookhaven Bulletin published on Friday, February 19. In addition, the following schedules will be in effect:*

- **Credit Union** — The Teachers Federal Credit Union branch on site will be closed on Monday. The automatic teller machine in the foyer of Berkner Hall will be open.
- **Food Service** — The *cafeteria* will be closed Saturday through Monday. The *Brookhaven Center Club* will maintain its regular weekend service 7:30 a.m.-2 p.m., but it will be closed for evening service Sunday, February 14. Service will resume 5-9 p.m., on Monday, February 15.
- **Gym & Pool, Omega Leisure Travel Office, Recreation Building, Upton Post Office** — all will be closed Monday.
- **Research Library** — Though the library will open from 9 a.m. to 5 p.m. on Saturday & Sunday, February 13 & 14, it will be closed Monday.

## BROOKHAVEN BULLETIN

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### BSA Cultural Program

## Eric Sun Launches New BSA Arts Series

On Wednesday, February 17, Eric Sun (see story above) will give a noon recital in Berkner Hall to launch a new cultural program of arts events sponsored by BSA.

During lunchtime events, light entertainment will be offered to enjoy with lunch, starting at noon and continuing for 45 minutes. Audience members, who are expected to come and go freely, may bring their own lunch into the Berkner auditorium.

Sun's performance next Wednesday will include Bach's *Prelude and Fugue* in G major, Haydn's *Sonata* in F, XVI/23, Beethoven's *Sonata* (Op. 49 No. 2), and Chopin's *Nocturne* in D flat (Op. 27, No. 2).

# BERA Bus Trips

Buy tickets at the BERA Sales Office, Berkner Hall, Tuesday-Friday, 9 a.m.-1:30 p.m. For more information, call Andrea Dehler, Ext. 3347.

## Pocono 500 Nascar Race

Purchase tickets by Tuesday, February 16, for BERA's one-day trip to the Pocono 500 Nascar Race, on Father's Day, Sunday, June 20.

The cost is \$99 per person, which includes round-trip transportation on a fully equipped bus and terrace-vista seats in the grandstand.

## Ski Camelback, Brodie

BERA is offering two ski trips, costing \$45 per person for round-trip bus transportation and lift tickets:

- **Wednesday, February 24:** trip to Camelback Mountain Ski Resort, Pennsylvania.
- **Wednesday, March 24:** trip to Brodie Mountain Ski Resort, Massachusetts.

# Arrivals & Departures

## Arrivals

Mei Bai ..... RHIC  
Wenge Fu ..... AGS  
Mark C. Sailer ..... RHIC

## Departures

Heather C. Williams ..... Info. Services



## Placement Notices

The Lab's placement policy is to select the best-qualified candidate for an available position. Candidates are considered 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, disability or veteran status.

Each week, the Human Resources Division lists new placement notices, first, so employees may request consideration for themselves, and, second, for 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; call the JOBLINE, Ext. 7744 (344-7744), for a complete list of all job openings; use a TDD system to access job information by calling (516) 344-6018; or access current job openings on the World Wide Web at <http://www.bnl.gov/JOBS/jobs.html>.

**LAB RECRUITMENT** - Opportunities for Laboratory employees.

NS8024. QA/ENGINEERING POSITION - Requires a BS in science or engineering, at least five years' experience implementing quality-management programs, and experience with DOE Order 5700.6C and/or 10 CFR 830.120 "Quality Assurance," process-improvement team training and facilitation, and conducting assessments. A working knowledge of Malcolm Baldrige national quality award criteria, computer skills

and a strong electromechanical background are desirable. Knowledge of accelerator hardware and systems (i.e. magnets, vacuum systems, power supplies, and control systems) is also desirable. Responsibilities will include working half time in the National Synchrotron Light Source Department on implementing its QA program and half time in the Quality Management Office. Quality Management Office.

DD7410. MATERIAL HANDLER POSITION - (temporary) Administrative Support Division.

NS7749. RESIDENCE CUSTODIAN POSITIONS - (temporary, o/a 5/3/99 - 10/1/99) Administrative Support Division.

**OPEN RECRUITMENT** - Opportunities for Laboratory employees and outside candidates.

NS7391. PROGRAMMER/SYSTEMS ANALYST POSITION - Requires a bachelor's degree in computer science, or related field, and a minimum of one year of hands-on PeopleSoft development experience. Knowledge of PeopleCode, SQR, SQL, and Query/Crystal is necessary. Experience with relational databases (Oracle) and Windows NT is a plus. Business Information Systems Group, Financial Services Division.

NS7392. QUALITY ASSURANCE ANALYST POSITION - Requires a bachelor's degree in computer science or related field, and a minimum of three years' of technical experience in software development, including practice in developing application/environment-specific test plans and scripts. Experience with automated testing tools is required, as are strong verbal and written communication skills. Experience with PeopleSoft, Visual Basic, Java, and Oracle is a plus. Business Information Systems Group, Financial Services Division.

NS7741. ADMINISTRATIVE POSITION - Requires a BS in business administration or equivalent work experience, and knowledge of administrative functions, including accounting procedures and policies, proposal processing, budget preparation, and systems operation. Strong computer skills are essential, including knowledge of ACCESS, EXCEL, and PeopleSoft. Demonstrated writing, organizational, and communication skills are required; knowledge of Lab policies and procedures is desirable. Budget Office.

DD8168. TECHNICAL POSITION - (reposting) Requires an AAS in a technical field or equivalent experience. Will be responsible for technical support of the perfluorocarbon tracer laboratory, including preparation and participation in field deployment of sampling and analysis systems. Experience is essential with standard laboratory procedures, including electrical testing, flow measurement, gravimetric weighings, and plumbing within instruments. Familiarity with gas chromatography is desirable. May be required to perform occasional field work. Department of Applied Science.

DD8143. P&GA SCANNING CLERK B - (term appointment) Under direct supervision and administrative direction, performs routine scanning, indexing, and electronic-file and CD-creation functions, including preparing documents for scanning, keyboarding indexed fields, inspecting scanned images to ensure quality and legibility, and generating or duplicating electronic files or CDs containing scanned images and indices. Required qualifications include experience working with a personal computer and keyboarding skills. Experience with scanning and indexing desirable. Information Services Division.



## Love Notes

BEAR - Why? Why not!!! If that's your question, then that's my answer. I like you too, but I love you best of all. xos, your bunia.

JOE - Thanks for being my best friend. Love you always, The Queen

4 MY MUZZ - Another V-Day & our love grows with each passing year. Many, many more. Love always, Lenny

MY DEAREST JACKIE - I love you for so many reasons, great and small, but most of all, I love you just because you're you. Bruce

JEANNE - Thanks for the most wonderful 18½ years of my life. I will love and cherish you forever. Tim

MR. PRESIDENT - Lots and lots of love from the 13 chicks who live at the Marsh House, especially your First Lady.

BJV - Singula de nobis anni praedantur euntes — mais — Cras ingens iterabimus aequor. Voyageons ensemble. LL

BUNIA - Love you and like you. Thanks for loving me so much, Bear

JG - 1975 was a good year. Hope the next 24 are good. Love, ML

WOULD-BE VALENTINE - Your lonely Valentine's Days may be over if you meet with this lovely, smart, 40ish woman. Persuade her to call you: Send name, phone & love note to Matchmaker, Bulletin, Bldg. 134.

CHRISTINE - This year's been the happiest of my life. I'm looking forward to many more with you as my wife.

TO MY ANGELS - Roses are red and that's really fine, cause wherever I go, you'll always be mine.

BEAUTY - You are the love of my life. Forever, your Enchanted Beast

CATWOMAN - Happy Valentine's Day to a woman who knows purr-fectly how to make me react. Love, Q-Ball

PIZZAMAN - After 16 years . . . a string made of memories and dreams still connects your heart to mine. I love you, LS

HONEY - You continue making every day worth coming home. Love you very much and so do the boys. T.I.

CYNTHIA - To my best friend and wife, whom I shall ever love forever. Joseph

TO MY BEAUTIFUL BETH - I'm touched by an angel. Love you very much, ED 4

ROBERT L - I'm so glad we're together this Valentine's Day. I look forward to sharing many more with you. Christine

TO MY LOVELY, BEAUTIFUL WIFE - whom I'll cherish forever: Happy Valentine's Day

SUNSHINE - You are the warming sun on a cold winter morning and the cooling breeze on a hot summer day. Love, RT

TO NL - You're still my one and only Valentine. Love, BL

MY YANKEE FAN - I'm glad I converted you in time! I'll see you on the slopes. # 51

JMS - Your courage over the last year is amazing. Just another reason why I love and admire you so. Tom

CD - Thank you for the years you've given me. Happy Valentine's Day, CB

KELLSTER - You are growing up so fast but you will always be Daddy's little girl. Love, Dad

KAREN - Thank you for another beautiful year. Love, Ray

ALAN - You've filled my heart with love so you will be my Valentine for the rest of my life. Love, Nydia

POOKY-BOY - Mere words cannot express the love and appreciation I feel for the love of my life! No-mora-skiing

SARA - Thanks for the twenty-six incredible years. Love, Bill

HAPPY VALENTINE'S DAY - Sparky, Sunshine & Babe. I love you all so much! Love, Silly Mommy

ROSES - are in a vase, Fish are in a tank, I'd write you a Valentine, But I'm drawing a blank.

LINDA - You are a tax on my beating heart. I adore you. Buzz

JAY - The heart has reasons that the mind knows not — and when touched so deeply, will not forget. Ali

TO MY HANDSOME ROBIN HOOD - Through forest & thickets, in rain & sun, you'll always be my #1. Your love for all times, Lady Marion

DEAR LS - I would like to be that "someone to watch over you" Love, Pizzaman

OLLIE - No words can ever express the love I feel for you. You are all of my fantasies. Teddy Bear

TO MY SWEETHEART JENNIFER - I love you more each year. Larry

KATE - I'd never let a Valentine's Day go by without sending you my love. Rich

FIVE DOORS DOWN - Meeting you, being friends and working together are true pleasures. You're my star.

VICKY - You are a wonderful wife and a perfect mom. Best wishes, Frank, Sean & Little William

MOTORHEAD - I'm having fun. Hope you are too!

PAT - I think we need a bigger card. As you know it's still outstanding. Love, WM

DEAR ROSCO - Who would have thought such happiness and love would still be here after 7 months. Loving you, Baby

RAB - For yesterday's memories . . . Today's happiness... And tomorrow's dreams . . . I Love You Happy V-Day!, A

LINDA - You are the most beautiful woman in the world. You mean everything to me. I will love you forever!

MUSKRAT 1 - Of all the places in the world where I could be, I most want to be here with you, Muskrat 2

DEAR M - It pains me so, that your love, I'll never know, but for me there can never be, another more cherished than thee. — Unrealized Love in Upton

TERRY (THE WALLFLOWER) - 20 years married & we still love each other. I guess opposites do attract! Love, Susie (The Dancer)

DEAR BUDY-BOY - Happy Valentine's Day. You will always be my Hero. Love, Budy-girl

SNOOKY LUMPS - I love you more with each passing day. Be my Valentine's forever. Love, Slick

TAKE ME TO MIAMI - OK, Maybe even to Hamaca. Hope you had a GR8 time. Love always, Joseph

S - Would you like to tuck under with me? Happy Valentine's Day.

DEAR JOANNE - You are a sweet, terrific, and beautiful lady. Happy Valentine's Day. Love, Quantum

AMY YANG - Happy Valentine's Day and Happy Birthday. Love you everyday. Don't worry Thursday, it's payday.

THE FIRST DAY - I met you I said to myself: She's beautiful. You still are & always will be to me. Love, The Alarm Clock

TO ALL MY FRIENDS - In the Hospitality Committee, wishing you all a very happy Valentine's Day. And that's the wish from Vicky Chang.

MOM - We're thinking of you while we're eating pizza on the beach. Happy Valentine's Day! Love, Joe & DJ

JOE VB - LIFESGR8 with U celebrating VD, playing VB in the DR. Love, DJ

BECKY - Always, Bill

NEEN - AML...AML, J

DABABE - You are my other half. T.Y.F.L.M. Love, Me

SWEETIE PIE - 5 years, and you're still the love of my life. I guess this really is forever! XXXXXX

POPI - We share a special love that keeps getting stronger. You're a hotty. Love, Queen T

WUSS PUSS - All my life ever needed was you! Cream Puff

TONELow - After 25 years you're still Prime Real Estate. From your 3 x 5

DEAR HONEY - Remember, I'll always miss you, need you, want you and love you. Sweet Pea

PPYNE - To the straight A student, keep up the great work. The dream is around the corner. Love always, Me

JUN - You are my Best Friend, my Sweetheart & my Loving Husband of 20 years. Happy Valentine's Day. Love, You - Sha

DEAREST ANNMARIE - You are the one true love of mine. I will love you always and forever, Tom

SUNSHINE - Once in a lifetime you find a special someone. I've found that someone . . . you. Love always, Bud

I fell fast in love  
In a field of moonlit dreams  
And stayed for ten years.

DAD - You've lived with a lot, so I'm happy you're living with what you've got. Hurry up and go to Florida, so I can miss you already! xos, your Daughter