

Interim Director Peter Paul Addresses Lab Science



"We are in a time of transition," said Interim Laboratory Director Peter Paul, as he opened the all-employee meeting on Thursday, January 10, in Berkner Hall. "The events of September 11 have affected the Lab, and the Lab has responded magnificently," he added, citing the Laboratory's help in responding to the emergency and the many contributions by employees.

In addition, Paul said, BNLers are in a time of transition following former Laboratory Director John Marburger's move to Washington. "Jack [Marburger] effected many changes at the Lab, and you were all helping him," said Paul. Marburger's commitment to environmental restoration and community involvement has placed the Lab in a position where more emphasis can now be placed on the important job of building the scientific and technological base at BNL, Paul continued.

Paul said that the search for a new Lab Director has been narrowed from 60 names to, at this time, one candidate who is under serious consideration.

Then, to illustrate the direction the Lab will take during the next few years, Paul focused on developments in highenergy and nuclear physics, basic energy sciences, life sciences, and energy environment and national security.

Physics at RHIC, AGS

The facility and the science of the Relativistic Heavy Ion Collider (RHIC) have been "a stunning success," Paul said, adding that the machine had reached its design energy and luminosity last year. Future plans call for an upgrade to RHIC-II, boosting the machine's intensity by a factor of 40.

Paul also described eRHIC — a long-term upgrade that would add an electron linac or ring to the facility to enable scientists to study collisions between electrons and

John Marburger Visits, Lab Celebrates



Office of Science & Technology Policy Director John Marburger with U.S. Representative Felix Grucci

O n January 10, an afternoon celebration for former BNL Director John Marburger not only gave BNLers the occasion to congratulate the new White House Science Advisor, but also gave Peter Paul a respite from his Interim Director duties. As Paul told the 400 attendees before introducing Marburger, since the "real" director was here, Paul would gladly hand over the podium and the Lab — to its former chief. Marburger, who had left the Lab after being selected by President George W. Bush as his nominee for Director, Office of Science & Technology Policy, was also thanked for his contributions by Manager of the

BNL Deputy Director for Operations Thomas Sheridan, John Marburger, and BNL Interim Director Peter Paul

DOE Brookhaven Area Office Michael Holland and U.S. Representative Felix Grucci, who arrived in time to present Marburger with a Certificate of Special Congressional Recognition, "in recognition of outstanding and invaluable service to the community." Marge Lynch, Assistant Director for Community, Education, Government, and Public Affairs, presented Marburger with gifts from the Lab, which included a scrapbook of the "Marburger years" at BNL and a first edition of *Infrared and Optical Masers*, signed by the authors, Nobel laureates Arthur Schawlow and Charles Townes, who won their prizes in physics in 1981 and 1964, respectively.

Enzyme Studies May Lead to New Antiviral Agents

Funded by DOE and the National Institutes of Health, three new enzyme studies at BNL have yielded a new strategy for blocking infection by human adenovirus. The findings, reported in the October, November, and December issues of the journal *Biochemistry*, have already been used to design novel antiviral drugs.

Adenoviruses cause a number of acute infections, including respiratory and gastrointestinal infections, and conjunctivitis. In patients with compromised immune systems, such as those infected with human immunodeficiency virus (HIV), an opportunistic adenovirus infection is frequently deadly.

"Our new antiviral drugs are expected not only to inhibit adenovirus, but also, possibly, to be effective against other organisms that use

the same enzyme including *Chlamydia*, one of the most prevalent sexually transmitted bacteria, and *Yersinia pestis*, the organism that causes the black plague," said Walter Mangel, Biology Department, the lead scientist on the studies.



gold ions.

Moving from RHIC to the Alternating Gradient Synchrotron (AGS), Paul highlighted Experiment 787 at the AGS, which predicts a rare decay of the kaon particle. Brookhaven scientists have recently reported finding the second rare decay that occurs only once out of 10¹² events. "This was a great triumph of precision, exemplary of the strength of what we do here at Brookhaven," Paul said.

Paul sees the future of high-energy physics at the AGS as involving an investigation into rare symmetry violating processes (RSVP), using two large detectors called KOPIO and MECO. He is optimistic that the National Science Foundation will provide \$100 million for the RSVP project.

Basic Energy Sciences

Switching to basic energy sciences, Paul discussed the rationale for the formation of the new Materials Science Department, headed by Interim Chair David Welch. "This new department serves an important role in the nanoscience proposal," said Paul, referring to a plan to build a new center for functional nanomaterials at BNL. With the addition of a nanoscience center, Brookhaven would play an important role in materials science for the Northeast, providing material fabrication facilities to the large research and industrial communities. *(continued on page 2)*

Infection Process

During infection, these viruses make an enzyme called a protease, which cleaves or degrades other proteins. The protease is used by the virus to complete the maturation of newly synthesized virus particles.

To explain this process, Mangel uses the example of building a cathedral around internal scaffolding. Once the cathedral is in place, the last step is to remove the scaffolding.

"Similarly," says Mangel, "adenovirus particles are built with *(continued on page 2)*

The Bulletin

(cont'd.)

Calendar

of Laboratory Events

- The BERA Sales Office is located in Berkner Hall and is open weekdays from 9 a.m. to 3 p.m. For more information on BERA events, contact Andrea Dehler, Ext. 3347; or M. Kay Dellimore, Ext. 2873.
- Additional information for Hospitality Committee events can be found at the Lollipop House and the laundry in the apartment area.
- The Recreation Building (Rec. Bldg.) is located in the apartment area.
- Contact names are provided for most events for more information.
- Calendar events flagged with an asterisk (*) have an accompanying story in this week's Bulletin.

- EACH WEEK -

Mondays: BNL Gospel Choir

5:15-7 p.m. Rehearsals in Berkner auditorium. Seeking new members, all faiths. Frances Ligon, ligon@bnl.gov, Ext. 3700; Sydell Lamb, lamb@bnl.gov, Ext. 3389; www.bnl.gov/bera/activities/choir/

Mon., Tues., & Thurs.: Aqua Aerobics

5:15-6:15 p.m. \$2 pool fee per class or use pool pass. Registration required. Mary Wood, Ext 5923.

Mon., Tues., & Thurs.: Cardio Kickboxing

\$5 per class. Mon. & Thurs. noon-1 p.m. in the gym; Tues., 5:15-6:15 p.m. in the gym; Thurs., 5:15-6:15 p.m. in Brookhaven Ctr. Registration is required. Mary Wood, Ext. 5923, or wood2@bnl.gov.

Mon., Tues., & Fri.: Tai Chi 12:15 - 12:45 p.m., Rec. Bldg. Scott Bradley, Ext. 5745, bradley@bnl.gov.

Tuesdays: Welcome Coffee

10-11:30 a.m. Rec. Bldg. Hospitality event. Come and meet friends. The first Tuesday of every month is special for Lab newcomers and leaving guests. Hospital-ity Chair Mimi Luccio, 821-1435.

Tuesdays: Toastmasters

Meetings are 1st and 3rd Tuesday of each month, 5:30 p.m.; 4th Tuesday at 12:05 p.m. in Bldg. 463. Guests, visitors always welcome. www.bnl.gov/bera/ activities/toastmstrs/default.htm.

Tuesdays & Thursdays: Aerobics 5:15-6:30 p.m., \$4 per class. Rec. Bldg.

Pat Flood, Ext 7886. Wednesdays: Weight Watchers noon-1 p.m., Brookhaven Center South Room. Register 2/5. Mary Wood, Ext.

5923. Wednesdays: Yoga Practice noon-1 p.m., Rec. Bldg. Free. Ila

Campbell, Ext. 2206. Wednesdays: Stretch

5:15-6:15 p.m., \$4 per class. Rec. Bldg. Pat Flood, Ext 7886.

Wednesdays: BNL Ballroom, Latin & Swing Dance Club

6-9 p.m. North Ballroom, Brookhaven Center. Marsha Belford, belford@bnl. gov or Ext. 5053.

Thursdays: Falun Dafa Class noon-1 p.m., Free. Rec. Bldg. Falun Dafa refines the body and mind through exercises, meditation. www.falundafa.org.

NEXT WEE

Enzyme Studies May Lead to New Antiviral Agents

scaffolding proteins inside. Once the virus particle is formed, the protease becomes activated and cleaves the scaffolding to render the virus particle infectious."

The three recent studies at BNL reveal that the protease is initially synthesized in an inactive form. The inactive enzyme binds to the viral DNA to become partially activated.

The partially activated enzyme then cleaves out a cofactor, which is a protein fragment that binds to the protease to activate it further. The fully active complex of enzyme and cofactor then moves along the viral DNA, cleaving the scaffolding proteins.



A graphic representation of the structure of the adenovirus protease. The active site is in the groove at the top where the "balland-stick" figures are located. The cofactor is the strand in the center at the bottom. The DNA binding sites are identified with "plus (+)" signs.

"Such activation of a protease by DNA has never been seen before," Mangel said. And this presented a problem.

"Two other laboratories repeatedly claimed in the literature that they saw no stimulation of the enzyme by DNA," Mangel continued. "So, in one of the three papers, we not only presented definitive evidence that the enzyme interacted with DNA, but also showed why the two other groups had not seen stimulation of the enzyme by DNA. Essentially, they did not use the correct conditions. We hope that, with the publication of these papers, this controversy is now resolved."

Next Step: To Design Drugs

"These studies suggest that drugs that bind to the active site of the enzyme, which is the part involved in cleaving proteins, the cofactor binding site, or the DNA binding site should block the enzyme's action and serve as effective antiviral agents," Mangel said.

To design drugs able to bind to and block these sites, the scientists first had to characterize the molecular structures. The active site of the enzyme had been previously characterized by William McGrath, a postdoc in Mangel's team, using an intense beam of x-rays available at BNL's National Synchrotron Light Source (NSLS). The pattern of

x-rays bouncing off the atoms reveals the three-dimensional molecular structure.

In the current studies, Stony Brook University graduate student Mary Lynn Baniecki characterized the binding of the cofactor to the protease, identifying which parts bind to the enzyme and which parts stimulate the enzyme's activity. McGrath and Baniecki then deciphered how the protease binds to the DNA.

Among the other coauthors of the study, Mangel said, are three undergraduate students, David Green, Caroline Li, and Sarah McWhirter, who were participants in the DOE Energy Research Undergraduate Laboratory Fellowships program managed at BNL by the Office of Educational Programs.

New, Three-Pronged Therapy

Based on the findings, Mangel has proposed a new form of antiviral therapy using three different drugs against these three target sites — the active site, the cofactor binding site, and the DNA binding site — on the same virus-coded protein. This threepronged approach may overcome one of the biggest challenges in antiviral therapy — the spontaneous evolution of drugresistant strains.

As Mangel explains the idea, a mutation conferring drug resistance at one site may alter the physiological functions at the

other two sites because the three sites are interdependent, thereby making drug resistance much less likely to arise.

"The adenovirus protease may be a good model system within which to test the efficacy of this form of combination therapy," Mangel said.

Already, his team has developed two new drugs, one that binds reversibly and another irreversibly to the active site of the protease. These drugs will soon be tested as antiviral agents by the National Institutes of Health. — Karen McNulty Walsh

> **Arrivals & Departures** Arrivals

Marco Beleggia .. Material Sciences Miraculous Bhaseen Physics Liz Flynn NSLS Alison Funston Chemistry Christophe Suire Physics Kerry Unger C-A

Departures

lichael Brelle	Env. Sci.
Barbara Coughlin-Byrne	Medical
Christoph Felder	Medical

The Bulletin regrets that, in the Departures section last week. Thomas Dickinson should have been listed as working in the the National Synchrotron Light Source Department, not the Collider-Accelerator Department; and Thomas Wild, listed as being in the Materials Sciences Department, was in the Superconducting Magnet Division.

Interim Director Peter Paul Addresses Lab Employees

Paul also cited the establishment of a new Catalysis Center in the Chemistry Department, as well as his hope for future funding of the deep ultraviolet free electron laser (DUV-FEL), which is under development at the National Synchrotron Light Source (NSLS). Speaking on the technological approach to producing deep ultraviolet light, Paul said, "The Brookhaven approach is way ahead of the curve."

Describing the continuing success of the NSLS under the direction of Chair Stephen Dierker, Paul said that preparations are being made for an upgrade to include the addition of a 3 billion-electron-volt energy-recovering linac. This upgrade would render the NSLS x-ray beams as bright or brighter than any other light source in the country.

Life Sciences

ences, Paul mentioned the cre-

at the sociology of microbial systems. As part of DOE's "Bringing the Genome to Life" program, this research will help to understand the interactions between microorganisms.

Paul also outlined new capabilities in BNL's imaging program, including the Lab's new whole-body positron emission tomography (PET) machine and the MicroPET, which is capable of imaging the brains of animal models for certain diseases.

Furthermore, he said, a grant will be submitted shortly to upgrade the Lab's 4-Tesla (T) magnetic resonance imaging (MRI) scanner to a 7-T. This would provide researchers with much clearer images and build upon a recent upgrade that allows the measurement of functions such as blood flow over time.

"Brookhaven has also been the leader in radiation treatment Moving on to the life sci- of cancers," said Paul, describing advances in microbeam irradia tion therapy and proton therapy to treat cancer. Paul also spoke of plans to construct a Cyclotron Isotope Research Center, which would develop and produce radioisotopes for commercial use and promote research into new radiopharmaceuticals.

tion. Working with industry, BNL will build and field-test a Raman Lidar platform, designed for use in an urban setting, which identifies an unknown solid or liquid from up to a few hundred feet away.

Paul also described BNL's development of a single-spore detection and analysis system, known as SPLAT, that requires no human intervention and gives immediate results on unknown biological agents.

The Future

Conducting experiments to investigate scientific and technological principles has become increasingly expensive as experiments get more complicated to build and operate, Paul said. Computer modeling, such as that done by BNL's Center for Data Intensive Computing, will play an ever-increasing role in modeling large-scale experi-

(cont'd.)

well as BNL's management company. BSA has successfully passed the exit clause, or "offramp" of the current BSA contract and Paul expects that contract - due to expire on January 4, 2003 — to be renewed for an additional five years by DOE.

Finally, Paul spoke about several quality of life improvements that have been made at the Lab, including: the upgrade to the Brookhaven Center, installation of additional street lighting around the site, the installation of satellite TV in the dorms and apartment area, the availability of a guidebook for guests conducting research at the Lab, the refurbishment of the Recreation Center, and improvements to the RHIC & AGS Users Center.

In addition, he said, the Lab has been working very hard to rebuild the base of scientists. Paul showed that, while the scientific staff has slowly decreased over the past 10 years, it finally stabilized in 2000. In fact, in 2001, the number of individuals on the scientific staff began to increase. With BSA's establishment of the highly selective Goldhaber Fellowships and BNL's recruitment of postdocs, Paul expects to see an increase in the number of postdocs at BNL until the goal of 150 is met.

Monday, 1/21

Martin Luther King Day

In honor of the day, BNL will be closed. Because of the holiday, no Bulletin will be published this week.

Tuesday, 1/22

*EAP Outreach Program

noon-1 p.m., Berkner Hall. Luanne Jabbonsky will present "Taking Control of Family Finances." See notice, page 3.

Wednesday, 1/23

Agilent Technologies Demo

10 a.m.-2 p.m., Berkner Hall. Agilent Technologies will demonstrate the latest innovations in measurement technology. For more information, call 454-4627.

Science Discussion Group

12:30-1:30 p.m., Berkner Hall, Room D. People who enjoy talking about science are invited to join this group to explore current scientific events and issues. Patrice Pages, Ext. 3270, pages@ bnl.gov.

ation of a new Center for the Structure of Complex Proteins under the direction of Dax Fu, as well as the receipt of \$750,000 in DOE funding for a new cryoelectron microscope.

On the challenge of developing a new high-frequency nuclear magnetic resonance spectrometer, which would require high-temperature superconductor technology that does not yet exist, Paul said. "This is where the beauty of Brookhaven kicks in. I've gone to Mike Harrison and his experts in the Magnet Division, and I have asked them for a design. A short time later they came back with a few tricks up their sleeves, and the design looks good."

Another Lab effort that Paul highlighted was the Biology Department's Center for the Molecular Analysis of Microbial Communities, which is looking

Global Science

On the energy, environment, and national security front, Paul highlighted the Tropospheric Aerosol Program, which will investigate the health effects of aerosols in the atmosphere, and the Footprint Integration Ameriflux Towers experiment, which measures the effect of increased levels of carbon dioxide on plants.

In the area of national security, Paul described BNL's unique expertise in the field of shortrange, non-contact chemical spill detection and identificaments in science.

Funding for BNL has decreased from \$468.7 million in FY01 to \$446.5 million in FY02, but the spending plan has increased slightly.

This is due to the fact that funds get sometimes "carried over" from one budget year to the next. Paul was optimistic that the research base and its funding will expand in FY03.

This optimism extends to his vision for new buildings and scientific facilities at BNL. In addition to the nanoscience research center and CIRC, he mentioned a new administration building, a RHIC science building, and an energy science building. Paul indicated, however, that plans to begin construction on any of these buildings must await the President's budget for FY03.

Paul said that DOE is confident that Brookhaven Science Associates (BSA) is performing

In summation, Paul said, "Rebuilding the base of scientists at the Lab is my highest priority.

"Brookhaven is a service organization. We provide the brains to answer scientific questions, technical questions, and issues of national need. The more brains we have, the more questions we can answer," he concluded.

> - Iohn Galvin with Karen McNulty Walsh

The Bulletin

Long Island Weather of 2001 — A Blizzard in March, Blossoms in December

Long Island felt more like Florida for much of November and December of 2001, when blossoms appeared on forsythia bushes and crabapple trees.

According to BNL's meteorological records, November's average high temperature was a record-breaking 59.3 degrees Fahrenheit (°F). The previous record of 58°F for the month was set in 1994. December brought an average high of 50°F, which was 0.4°F higher than the record set in 1984.

In fact, with an average yearly temperature of 52.3°F some 2.3°F above normal — 2001 was the fifth warmest year since BNL started recording weather statistics in 1949.

Despite the balmy weather in late fall, the 2001 snow season, from October 2000 through April 2001, brought 47.2 inches of snow, some 17.6 inches more than the normal for the period. The sole blizzard of the year brought 15 inches of snow on March 5 and 6. The total of 19

inches of snowfall was three times the average for the month.

March was the wettest month on record, with 10.37 inches of precipitation, including snow, which is melted for measuring, topping the previous March record of 10.36 inches set in 1953.

But, overall, 2001 was a dry year. Total precipitation for the year was 45.5 inches, while the norm is 48.4 inches. The last third of the year was the driest. October and November both had precipitation that was three inches below the norm at 1.04 inches and 0.74 inches, respectively. With 4.6 inches of precipitation, December was two inches below the norm.

No hurricanes hit Long Island in 2001. The biggest storm occurred on July 11, when hail, heavy rain, and 60-miles-perhour winds hit parts of the Island.

The year brought the hottest June and August ever in 53 years, with average monthly

Monthly Precipitation



Lecture on Control of Family Finances, 1/22

Luanne Jabbonsky, Financial Management Educator at Cornell Cooperative Extension, will present the Employee Assistance Program lecture, "Taking Control of Family Finances," on Tuesday, January 22, at noon in Berkner Hall. In the workshop, Jabbonsky will examine the way consumers make decisions and explain how to increase savings, decrease debt, and use credit wisely.

Check your mailbox for registration forms. Participants may register at the door, space permitting. For more information, contact Diane Polowczyk, Ext. 2699 or polowczyk@bnl.gov.

In Memoriam

Brita McGonagle, who had joined the Medical Department on October 3, 1955, as a registered nurse, died on November 2, 1999, at age 88. She had retired

30, 1980, died at age 67 on November 28, 2000. He had joined BNL as a janitor on July 1, 1963. Douglas Humphrey, who had joined the Photography &

temperatures of 70°F and 74.3°F, respectively. The previous record for June was 69.9°F, set in 1994, and 73.4°F for August, set in 1988.

Twelve recordhigh daily temperatures were noted in 2001. The thermometer hit 76°F on April 9, one-half degree more than the record 75.5°F set on that date in 1970. The beginning of May brought three consecutive days of unprecedented heat — 89°F on May 2, beating the record of 83°F set in 1952; 89°F again on May 3, a full 13.5° higher than the record set in 1980, and 91.5°F on May 4, some 2.5° more than the 1965 record.

August brought three recordbreaking daily temperatures on consecutive days - 95°F on August 7, beating the 1983 record by two degrees; 98.5°F on August 8, a full eight degrees higher than another 1983 record; and 99.5°F on August 9, some 3.5°F warmer than the record set in 1949

The record-breaking high for October 25 was 76°F, a half-degree higher than the record set in 1963. The November 30 high of 65.5°F beat the record set in 1962 by two degrees.

Early December brought three record highs: December 1 brought a high of 69.5°F, some 3.5 degrees higher than the



This tree near the BNL tennis courts was struck by lightning during one of last summer's storms. A thin strip of bark was shaved off the entire length of the tree and debris was scattered up to 100 feet away.

1962 record for the date; and December 5 and 6 each brought highs of 68.5°F, beating the 62°F record for the 5th, set in both 1973 and 1999, and the 67.5°F record for the 6th, set in 1998.

What's the prediction for 2002 and 2003?

BNL meteorologist Victor Cassella of the Environmental Sciences Department predicts that, if the winter stays fairly warm, then the spring of 2002 may bring more precipitation than usual, in particular a lot of thunderstorms. He has also observed that mild falls often lead to severe, snow-filled winters a year later; so, he warns, watch out for the winter of 2002-03.

Diane Greenberg



Brazilian Guitar Quartet

In Brazil they are called the "DREAM TEAM" — four of the most brilliant guitarists living in that country. Comprised of Grammy nominee Paul Galbraith, the brothers Edelton and Everton Gloeden, and Tadeu do Amaral, the Brazilian Guitar Quartet (BGQ) has quickly become one of the world's most sought-after guitar ensembles, with nearly sold-out North American tours in 2000 and 2001.

The BGQ's début CD of Brazilian repertoire, Essência do Brasil

Calendar

(continued)

— WEEK OF 1/28 —

Monday, 1/28

IBEW Meeting

6 p.m., Knights of Columbus Hall, Railroad Ave., Patchogue. A meeting for shift workers will be held at 3 p.m. in the union office. The agenda includes regular business, committee reports, and the president's report.

Tuesday, 1/29

Quit Smoking / Lose Weight

4-6 p.m., Berkner Hall. \$10. The "Green Seminar" combines hypnosis with standard behavior modification techniques to help participants quit smoking or lose weight. For reservations, contact Mary Wood, Ext. 5923, wood2@bnl.gov.

Wednesday, 1/30

Meeting for Softball Captains

Noon, Berkner Hall, Room C. A representative from each team should attend. Preliminary rosters will be collected to help determine league structure. Nomination for Board positions will be taken. A nominee need not be a captain to run for the Board. New members wanting to join will be placed in the league as determined by the Board. For more information, e-mail softball@bnl.gov.

Saturday, 2/2

*Gospel Extravaganza

7 p.m., Berkner Hall. In honor of Black History Month. See notice, page 4. Buy tickets at BERA Sales Office.

WEEK OF 2/4 -

Tuesday, 2/5

Workshop Series: Cholesterol & Hypertension

Cholesterol workshop: 11:30 a.m.-12:15 p.m. Bldg. 490, small Conf. Room. Participants must register in advance to have blood work done prior to the workshop. Hypertension workshop: 12:30-1:15 p.m. Bldg. 490, small Conf. Room. Topics: nutritional foods, healthy dining out, easy cooking, travel monitoring. Program facilitated by a registered dietitian. To register, contact Mary Wood, Ext. 5923, wood2@bnl.gov.

Wednesday, 2/6

*Weight Watchers' Registration

noon, Brookhaven Center. Registration for a new series of ten Weight Watcher sessions to be held on Wednesdays, noon-1 p.m. at the Center, starting on February 13. The fee is \$89.



Toy and Clothing Sale

11 a.m.-1 p.m., Rec. Bldg. The Upton Nursery School will hold a fund-raising sale to benefit the school. Make donations on Tuesdays and Thursdays, 10 -11 a.m. at the Rec. Bldg. Individuals may also sell items on their own at the sale; but 20 percent of profits must be donated to the school. To reserve a table, contact Lisa Fugelberg, 205-5128, or 9-0043 Oppe

as Head Nurse on June 30, 1976. Paul Sawina, who, after a year as a contractor, had joined the Lab as a technician in the Health Physics Division on July 2, 1979, died on November 12, 1999. He was 63. He had retired as Sergeant from the Safety & Security Division on March 13, 1998.

William Barthold, who had taken a position as a refrigeration and air conditioning engineer in the Plant Engineering Division on June 20, 1966, and had retired on August 3, 1984, died on November 2, 2000. He was 78.

Carl Jacobs, who had joined the Physics Department as an technician on March 12, 1962, died on November 22, 2000, at 61. After serving the Lab for 37 years, he had retired as Research Engineer 1 on August 31, 1999. Howard Bell, who had retired from the Supply & Materiel Division as a driver on November

Graphic Arts Division on December 21, 1959, died at age 65 on December 6, 2000. He had been the Brookhaven Bulletin photographer and spearheaded the Lab video program before retiring as Photographic Supervisor on September 30, 1995.

John Popielaski, who died on February 26, 2001, at the age of 61, had joined the Plant Engineering Division on August 6, 1984, as a heavy equipment mechanical operator. He had left the Lab on December 4, 2000.

John Denes, who died on March 20, 2001, at age 76, had joined the then Applied Mathematics Department as a program analyst on January 9, 1961. In 1975, he had become Manager of Science Computer Services, then, in 1985, Manager of Accelerator Development Department acquisitions. He had retired on July 31, 1991, after 30 years' service to BNL.

(Delos), was chosen for Audiophile Edition's "Best Recordings of 1999" list and has been showered with praise in the U.S., Brazil, France, England and Japan. Their most recent CD, original arrangements of Bach's Orchestral Suites, is already receiving a similar response from Billboard and international publications.

For their BNL recital at noon on Wednesday, January 23, the BGQ will perform works by Albeniz, Mignone, Villa-Lobos, and Miranda. Of the latter two, The New York Times reviewer wrote: "Everything came together beautifully.... The quartet played engagingly and with a virtuosic flair."



Healthline Lecture

Noon, Berkner Hall. Elderlaw 2002 and money matters in catastrophic illness. Mary Wood, Ext. 5923, wood2@bnl.gov.

Wednesday, 2/13

Weight Watchers Starts noon, Brookhaven Center. See 2/6 above.

Thursday, 2/14

BNL Blood Drive

9:30 a.m.-3 p.m., Brookhaven Center. BNLers from 17 to 75 years of age, in good health, and weighing over 110 lbs. are welcome. All donors should have photo identification and know their social security number. Susan Foster, Ext 2888, donateblood@bnl.gov.

Note: This calendar is updated continuously and will appear in the Bulletin when space permits. Submissions must be received by the preceding Friday at noon to appear in the following week's Bulletin. Please enter the information for each event in the order listed above (date, event name, description, and cost) and send it to bulletin@bnl.gov. Write "Bulletin Calendar" in the subject line.

Gospel Extravaganza

Saturday, February 2 7 p.m., Berkner Hall



Gene Bridges and the Wings of Faith

o honor Black History Month, the BERA Afro-American Culture Club, with other interested BNL employees, will present a gospel concert on Saturday, February 2, at 7 p.m. in Berkner Hall. Featured will be:

- Long Island Voices Foundation Mass Choir
- Gene Bridges and the Wings of Faith, Deer Park
- Joy of Life Ensemble, Eastern Long Island
- Rosemary Rogers, Southampton
- Spiritual Stars, Riverhead
- First Baptist Church Dance Ministry of Riverhead

Refreshments will be served.

Purchase tickets at the BERA Sales Office, Berkner Hall, weekdays, 9 a.m.-3 p.m., Ext. 3347. Advance tickets: adults: \$12; children under 12, \$6. At the door, adult tickets will be \$15.

Summer Camp Expo

BNL's second annual Summer Camp Expo will be held on Thursday, March 7, 11:30 a.m.-1:30 p.m., in Berkner Hall. On this day, representatives from Long Island summer camps will set up displays and be available to speak with parents about camp options for their children. Facility and registration information is provided.

If you have previously enrolled your child in a Long Island summer camp that you would recommend, then contact Susan Foster, Ext. 2888 or foster2@bnl.gov, so that the camp may be invited to join the Summer Camp Expo.

Literacy Volunteers Training Workshop

The Literacy Volunteers of America run workshops to prepare volunteers to work with adults in need of basic reading, writing, and/or conversational English language skills. Knowledge of a foreign language is not required.

The next workshop starts on Wednesday, January 30, at the Longwood Library. For complete details, go to www.suffolkliter acy.org or call Joe O'Conor, Ext. 2212.

No Bulletin Next Week

The Lab will be closed on Monday, January 21, in observance of Martin Luther King Day. Therefore, no Bulletin will be published on Friday, January 25.

Send a Love Note to Your Valentine Is there a special message you'd like to send to your valentine? Are you looking for a valentine? You can have your Valentine's Day message printed in The Bulletin on February 9.

Send your 15-to-20-word "love note" to The Bulletin, Bldg. 134, by Friday, February 1. Use a Sales & Notices Bulletin classified ad form, but mark it "Valentine's Day." You must sign your name and include your life number and extension, but your name will not be printed unless it is clearly part of the message. Copy must be deemed tasteful. All "love notes" will be accepted at the Bulletin's discretion. Only one message per employee, please.

Classified Advertisements

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 list of all job openings; use a TDD system to access job information by calling (631) 344-6018; or access current job openings on the World Wide Web at www.bnl.gov/JOBS/ jobs.html

LABORATORY RECRUITMENT - Opportunities for Laboratory employees

NS2348, SR. ADMINISTRATIVE ASSIS-TANT (A-5) - Requires an AAS in secretarial science or equivalent, excellent oral and written communication skills, and a thorough knowledge of Laboratory policies and procedures. Must have the ability to work with quickly changing priorities, have a flexible schedule, and have demonstrated organizational and decision-making skills. A high level of competence in processing informa-tion on a PC is required, as is proficiency with MS Office software (complex word pro cessing, database management, spreadsheets, project management schedules, basic graphic designing, etc.). Knowledge of IPAP and travel system and web-based requisitions also required. Will provide administrative support to the Associate Laboratory Director for Energy, Environment, & National Security by performing a variety of complex administrative assignments and handling daily work flow including, but not limited to, scheduling meetings with internal and external contacts, maintaining/updating Outlook calendar, attending staff meetings, and preparing correspondence and presentation material. Must be able to interact with all levels of Laboratory personnel and staff of outside organizations. Director's Office

OPEN RECRUITMENT – Opportunities for Laboratory employees and outside candidates.

MK2363, POSTDOCTORAL RESEARCH ASSOCIATE - Requires a Ph.D. in biology or related field and experience in cellular and molecular biology and in radiobiology. Experience in laboratory techniques for in vivo Under the direction of A. Dilmanian, Medical Department.

tions. Working knowledge of RCRA, CWA, CAA, SDWA, TSCA, CERCLA, and NYS and local environmental regulations is reguired, as is demonstrated familiarity with pollution prevention concepts, strong process engineering skills and ability to analyze projects proactively to identify and elimi nate compliance problems and wastes. Familiarity with ISO 14001 is necessary. Responsibilities will include providing seniorlevel technical support to Departments/Divisions to ensure compliance with applicable laws, requirements, and BNL policy. Environmental Services Division

NS2289. LIBRARY ASSISTANT (A-2, 50%/ part-time, 3-7 p.m.) - Requires excellent written and oral communication skills; dem onstrated skills in one or more library functions; specialized training or equivalent experience and basic knowledge of library and information science operations, standards and procedures. Will work independently handle routine library and information sci ence inquiries and have frequent contact with resource personnel within and outside the Laboratory to obtain essential information for researchers. Information Services Division. NS2290, RECORDS MANAGEMENT AS-SISTANT (A-2, 50%/part-time) - Requires a bachelors' degree or equivalent in records management or a related field and experience with computer applications; demonstrated ability to communicate effectively orally and in writing; and the ability to work with all levels of personnel, to analyze problems, develop alternatives and make recommendations. A working knowledge of records systems and applications such as forms management, micrographics, archives and reprographics is desirable. Will work independently to handle non-routine matters; have frequent contact within and outside the Laboratory to exchange information essential to the records management function; may direct the work of other support personnel. Information Services Division NS8510. OFF-SITE HOUSING COORDI-NATOR/ADMINISTRATIVE SERVICES AS-SISTANT (A-2, ERAP Eligible - \$1K) - Requires a current realtor's license and familiarity with the Suffolk County rental market Proficiency in Word and Excel is required as are accurate record keeping skills and excellent communication skills. Will develop and maintain an inventory of potential rental facilities, offer guidance and aid to individu als in locating and securing off-site housing, as well as provide market research. Property visits may be conducted to ensure safe and sanitary living conditions. Will evaluate contracts between landlords and renters prior to customer's signing and update and maintain the off-site housing web pages and provide additional support to the Housing operations as needed. Staff Services Division.

TB2319. BIOLOGY ASSOCIATE III P-3 (term appointment) — Requires an MS in biology or biochemistry. Experience in x-ray crystallography and scientific computer programming preferred and knowledge of computing languages such as C, C++, Fortran, Perl, Java, XML, and Python is desirable Research program involves developing methods for high-throughput determination in protein structures by x-ray crystallography. Biology Department

Softball League Meeting

A Softball Captains' meeting will be held on Wednesday, January 30, in Berkner Hall, Room C. Each team planning to play this season should have at least one representative attend. For the agenda, see the Lab Events Calendar, page 3. For more information, e-mail softball@bnl.gov.

NS2027 PROJECT ENGINEER II (P-7) / ENVIRONMENTAL COMPLIANCE REP-RESENTATIVE (reposting, ERAP eligible -\$1K) - Requires a BS in science or engineering, advanced degree preferred, and a minimum of five years' experience in evaluation and application of environmental regulations to industrial and laboratory opera-

TB2148. HEATING MAINTENANCE ENGI-NEER A - Under minimum supervision, installs, operates and maintains oil burners and other heating and related equipment, except in the steam plant in Bldg. 610. As necessitated by operational requirements, may work with steamfitter or stationary engineers in the steam plant in Bldg. 610 or as a steamfitter or stationary engineer on any other equipment for which the heating section is responsible. Plant Engineering Division.

Bulletin

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