

Lab's Budget for FY98 Still Taking Shape, Expected to Increase Over Last Year

With the first month of fiscal year 1998 (FY98) over today, the exact amount of funding that BNL will be getting — primarily from the U.S. Department of Energy (DOE) — is still unknown.

It is projected, however, that the Lab's final budget for operating, capital and construction expenses will total \$408 million, about \$3 million greater than the \$405 million that BNL had received in FY97.

The DOE portion of this total — authorized through the FY98 Energy & Water Development Appropriations Bill, which the U.S. Congress had approved on September 30 and President Bill Clinton signed into law on October 13 — is essentially flat.

However, in FY97, the Lab received \$7.5 million for the Tritium Remediation Project, and, in FY98, there is a planned reduction in construction funding for the Relativistic Heavy Ion Collider (RHIC), from \$65 million to \$59 million.

So, overall, summarized BNL Budget Officer Richard Melucci, BNL's FY98 budget "looks as if it will be OK, from the point of view of total funds coming into the Laboratory. But things still are fluid right now, and we must all remember that it will be nearly midyear before we really know the full extent of the costs of the upcoming management transition."

Transition Costs Unknown

Transition costs are the big question mark right now: Will BNL's budget be sufficient to cover any transition costs that the Lab may be responsible for after DOE chooses a new BNL contractor to replace Associated Universities, Inc.? That question will be answered after Source Selection Officer Franklin Peters chooses between the two competing prospective contractors by November 17.

"Given transition costs, as well as an expected increase in the contractor's fee and the Laboratory's own efforts to conduct our management-system improvement program, we believe that it is going to cost the Lab millions of dollars beyond those funds that are currently available," Melucci stated. "DOE is working with us to try to solve the funding shortfall and has already promised us an additional \$3 million in general plant project funds. Since the transition costs are essentially all overhead costs, without DOE's help, there would be multipoint increases in overhead rates at the Laboratory."

Where the balance of the transition funds will come from is currently unclear. But, as Melucci pointed out, when Energy Secretary Federico Peña terminated AUI's contract last May, Peña promised that there will be no loss of jobs, benefits or salary as a result of the transition to a new contractor.

Thus, there may be reductions in



BNL Budget Officer Richard Melucci (standing) reviews budget projections for BNL for fiscal year 1998 with Budget Office staffers: (seated, from left) Paul Geiger, Edward Byrne and Antoinette Russo.

force during FY98 as the result of funding cuts affecting individual Lab programs. But, Melucci said, "At this point we don't see any severe reductions."

One reason for that, he explained, is that when the Laboratory realized that Clinton's budget request of last February had minor increases built in, though not enough to cover inflation, BNL began then to make adjustments to stay in line with budget expectations.

So, while BNL's full-time employees (FTEs) are projected to decrease from 3,107 in FY97 to 3,040 in FY98, most of this decrease has already taken place, and the balance is anticipated to occur through voluntary retirements and reassignments. Melucci said that these reductions, as well as others experienced at BNL since 1994 (see chart

below), have generally tracked the national decline in funding for research, though BNL has lost fewer FTEs than many other national laboratories.

Still, Melucci stressed, "We might not see the extent of the financial problems that the transition will cause until we are halfway through the year, and it will be more than twice as hard to deal with the problem at that point."

No HFBR Restart in FY98

Melucci was speaking from the hard-earned experience of this past fiscal year, when it became obvious about midway through the year that the Laboratory would have to absorb many of the costs associated with the Tritium Remediation Project (TRP).

Undertaken after a plume of water contaminated with the radioactive

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Removal of BGRR Air-Duct Water Being Discussed by EPA, DOE, BNL

As of press time, discussions are ongoing among the U.S. Department of Energy (DOE), the Environmental Protection Agency (EPA) and BNL regarding removal of some 60,000 gallons of contaminated water that had collected 25 feet underground in a concrete-encased steel air duct, used in the past to cool the Brookhaven Graphite Research Reactor (BGRR).

The water in the duct was discovered on September 15 during the site-wide Facility Review begun this April. The water in the air duct is most likely to have originated from the BGRR's cooling coils and/or rainwater intrusion. The water lines to the cooling coils have been disconnected, and the Lab is evaluating methods to seal off the exterior portions of the duct from rain. While further accumulations are being prevented, removal of the standing water will take several weeks.

Initial sampling and analyses indicated that the water is contaminated with the radioactive elements strontium, cesium and tritium (see Brookhaven Bulletin, October 10, 1997); subsequent analyses have now also shown small amounts of isotopes

of uranium, plutonium and americium.

However, radiation measurements show that the contaminated water, while underground in the duct or when pumped into the temporary double-containment storage tanks located in a paved, isolated area of the BNL site, has not been and is not a health or safety danger to BNL workers or to members of the public (see box, right).

Three unfiltered water samples from the air duct show a range of concentrations for the identified radioactive elements. The peak concentrations are: 25 picocuries per liter (pCi/L) of americium-241, 4 million pCi/L of cesium-137, 3 pCi/L of plutonium-238, 164 pCi/L of plutonium-239/240, 10 million pCi/L of strontium-90, 50 thousand pCi/L of tritium, 67 pCi/L of uranium-234, 14 pCi/L of uranium-235, and 72 pCi/L of uranium-238.

Plutonium, a toxic element, has isotopes that primarily emit alpha radiation, which is easily stopped by paper or skin or a few inches of air; thus, it is a hazard only when ingested or inhaled. The plutonium concentrations found in the air-duct water correspond

Data Show Water In BGRR Air Duct Is No Health Risk

In the October 10 issue of the Brookhaven Bulletin, the presence of radiologically contaminated water in a Brookhaven Graphite Research Reactor (BGRR) air duct was first announced to all BNL employees. Since that time, employees have expressed concern regarding the potential uptake of radiological material from the evaporation of the water or from direct exposure to the water below. However, the Safety & Environmental Protection (SEP) Division has concluded from five information sources that there was no health risk associated with the temporary or long-term occupancy in this building.

According to SEP Head Bob Casey, the basis for this conclusion rests on the following five pieces of information: radiation dose-rate surveys, contamination survey, engineering controls, air-sample data and bioassay results.

"Radiation surveys and contamination surveys of the occupied and routinely used space were conducted periodically," says Casey. "There are also limited air-sampling data that indicated air quality was typical of any other building on site."

Besides the routine radiation surveys, there were several mechanical systems acting as physical barriers to the radioactive material which prevented the water from being a hazard to the occupants of the building.

First, the floor provided shielding to the radioactive material in the water. Second, the draft resulting from the building exhaust system plus a blower used to create negative pressure on the pile prevented the air in the ducts and, hence, any evaporated water vapor from coming into the building.

Finally, some of the staff who had routinely occupied the building have been examined in a whole body counter, which directly measures radioactivity in the entire human body. Results from these examinations have been negative, indicating that no or minimal uptake had occurred.

"It is from all of this information that the Environmental Safety & Health staff concludes that there was no health impact to people within this building while the contaminated water existed within the air duct," says Casey.

to a trace amount of solid material, or less than 0.6 milligrams (0.00002 ounces) distributed in the 60,000 gallons of water contained in the air duct.

The BGRR, which operated 1950-1968, split uranium atoms to produce neutrons for research. This process, called nuclear fission, produced the elements strontium and cesium.

During nuclear fission, some uranium atoms absorb a neutron but do not split. This uranium could then turn into plutonium, with americium

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BNL Staffing Levels: Full-Time Employees

Fiscal Year	Number of FTEs
1994	3,417
1995	3,360
1996	3,219
1997	3,107
1998 Pres. budget	3,040

Lab's Budget (cont'd.)

element tritium was detected last January coming from the spent-fuel pool of the High Flux Beam Reactor (HFBR), the TRP involved such steps as sinking a myriad of monitoring wells to determine the extent of the plume, initiating an ongoing "pump-and-recharge" system to remediate it and shipping the used fuel stored in the pool to an out-of-state repository.

These steps cost a total of \$18.7 million in FY97, which was paid for with an influx of \$7.5 million in new money from DOE and contributions of \$11.2 million from BNL, which came not only from the Reactor Division, but also from every other program at the Lab, including overhead.

These expenditures were unanticipated and caused severe financial distress throughout BNL in FY97. For FY98, however, the remaining costs for tasks associated with the TRP will be supported by use of the Reactor Division's operating funds, so other areas are not expected to be affected.

Though the TRP continues, the future of the HFBR is uncertain. At present, Peña is collecting input from the public and the scientific community, which will help him decide in January 1998 whether the HFBR should move toward continuing operations or decommissioning.

Known as H.R. 2203, the Energy & Water Development Appropriations Bill, in its section 512, prohibits restarting of HFBR operations in FY98: "None of the funds made available in this or any other Act may be used to restart the High Flux Beam Reactor."

Nonetheless, as Richard Jones of the American Institute of Physics (AIP) wrote in AIP's *Bulletin of Science Policy News* on October 2, "Although the bill language and conference report prohibit the restart of HFBR in the next twelve months, it is open to discussion if DOE could not restart the reactor at some future date. . . . [W]hile it cannot be predicted that the reactor will be restarted, there is nothing in the current bill that would appear to prevent it."

H.R. 2203 does call for such actions as draining the spent-fuel pool, adding a steel double-wall liner to the pool, meeting the requirements of Suffolk County Sanitary Code article 12, completing seismic upgrades and sealing the floor drains. These modifications are expected to take about two years and must be done whether the reactor is restarted or decommissioned.

Regardless, the HFBR could not have been restarted in 1998 even with-

out the Congressional mandate.

In addition to requiring the actions that had already been planned, the appropriations bill also calls for DOE "to undertake an environmental impact statement (EIS) with respect to the HFBR. . . . [T]he EIS will be a comprehensive survey of any environmental hazards that the tritium leak or other contamination associated with the HFBR pose to the drinking water and health of the people in the surrounding communities [that] will provide a detailed plan for remediation."

Thumbs Up for NSLS

Funding for the Reactor Division comes from the part of BNL's budget devoted to Basic Energy Sciences (BES), which also includes the National Synchrotron Light Source (NSLS). While DOE funding for BES at BNL is down significantly for FY98 — from \$81 million in FY97 to a projected \$76 million — most of the additional funds last year reflected reprogramming of funds to the TRP. With that factored in, Melucci said, "BES is basically level, and the NSLS is unaffected."

The NSLS got a strong vote of confidence about three weeks ago from the Basic Energy Sciences Advisory Committee, a DOE review panel that found that, among the nation's four operating light sources, the two oldest — the NSLS and the Stanford Synchro-

mended that the NSLS receive an additional \$3 million in operating funds for FY98 beyond those authorized in the President's budget. Although these recommendations may have come too late to affect the FY98 budget, they do bode well for the NSLS in future years.

In its overall budget for BES, DOE received some \$23 million for the design of the National Spallation Neutron Source, which is to be built at Oak Ridge National Laboratory. As part of its continuing participation in that project, BNL anticipates receiving some part of these funds for building components for this accelerator-based source of neutrons.

Funds for RHIC & LHC

DOE's funding for nuclear-physics programs at BNL is projected to rise from \$36 million in FY97 to \$47 million in FY98, largely due to an expected high level of pre-operations funding for RHIC.

In addition, as previously planned, the scheduled amount of construction funds for RHIC is reduced from \$65 million in FY97 to \$59 million in FY98 because most of the conventional construction has been completed. RHIC is still on schedule to begin operations in mid-1999.

For high-energy physics, Melucci said, "We have been told to expect an additional \$7.5 million toward two significant activities that BNL's high-

energy physicists are undertaking for the Large Hadron Collider [LHC] being built at CERN, in Switzerland."

This is projected to raise the funding that the Laboratory receives from DOE for high-energy physics from \$69 million in FY97 to \$74 million in FY98. Overall, the appropriations bill has allotted \$35 million to DOE to fund U.S. participation in LHC.

One of two major detectors conceived for the LHC is known as ATLAS, and it will involve about 1,700 collaborators from all over the world. As host laboratory for the 31 U.S. collaborating institutions working on the ATLAS detector, BNL is running the ATLAS Project Office while also leading the U.S. effort on two key components: the liquid-argon calorimeter and the muon spectrometer.

In its second significant activity, Brookhaven is part of a collaboration that includes three national laboratories and industry, and is responsible for developing and building accelerator components. In this effort, BNL is building some dipole magnets associated with interaction regions in the huge particle accelerator and testing superconducting materials for the LHC industrial magnet program.

Oceanography Research Cut

Several of BNL's Biomedical & Environmental Research (BER) programs were hard-hit, Melucci said, though the total BER budget from DOE is projected to remain level, at about \$25 million for FY98.

Among the BER programs are the Lab's efforts in oceanographic sciences, which, Melucci said, DOE is funding at half the FY97 level this year and will not fund in FY99.

One of BNL's most high-profile oceanographic sciences programs is research into the brown tide currently plaguing the Peconic Bay.

Ironically, said Julie La Roche, a principal investigator in the brown

Suggest ERC Candidates

In January, three members of the Employee Relations Committee (ERC) will complete their three-year terms; therefore three new members must be appointed to this eight-person group.

The ERC is charged with helping non-bargaining, non-scientific employees solve work-related problems that they have been unable to resolve with their supervisors. Thus, ERC members should be able to hear all sides of an issue objectively and maintain the complete confidentiality under which the ERC operates.

To suggest an ERC candidate or to request consideration for yourself, contact your department chair or division head before November 7.

To bring a problem to the ERC's attention, call committee chair Pat Fox, Ext. 2939; or one of the other current members: Sue Ellen Gerchman, 3417; Michael Kelly, Ext. 3476; Conrad Koehler Jr., Ext. 4310; Elizabeth McBreen, Ext. 5111; Jon Sandberg, Ext. 4682; Neil Schaknowski, Ext. 4261; or Grace Webster, Ext. 3227.

tide program, BNL gets no funding for this research program from DOE: The work is supported in part through the Sea Grant Brown Tide Research Initiative of the National Oceanographic & Atmospheric Administration, and La Roche is also hoping to receive some funding from Suffolk County.

Nonetheless, La Roche said, the DOE cuts will force their promising research to "continue at a lower level. The progress we made last year was due to the interdisciplinary program at BNL. Without the help of such oceanography programs as the real-time monitoring network with buoys that had started last year in the Oceanographic & Atmospheric Sciences Division of the Department of Applied Science, our progress will be slowed."

Other Funding Ups & Downs

In some other areas funded by DOE:

- Environmental research and waste management, which funds Superfund activities at BNL, is projected to increase from \$28 million in FY97 to \$31 million in FY98.

- Science education at BNL is projected to receive no DOE funding for this year, following an extremely lean FY97 when the Office of Educational Programs (OEP) received only \$140,000.

At present, the Lab's overhead is supporting a skeleton staff at OEP, which is scrambling to maintain the bulk of its activities through other funding sources and cost-sharing with BNL departments. OEP will be running student programs next summer and may also be getting some specific programmatic support from DOE.

- Funding for construction, other than for RHIC, could drop from \$23 million in FY97 to about \$14 million in FY98, "simply because the Laboratory has no new construction starts this year," Melucci said.

Because construction at BNL is expected to start up again in FY99, Melucci explained that it is important to maintain the matrix of engineers already established in the Plant Engineering Division. Thus, he said, "We are working on mitigating the loss of funding by having design engineers focus on projects that have been put off, by increasing general plant projects as much as possible and by initiating special-maintenance activities."

— Anita Cohen

BNL FY1998 Funding Projection*

(rounded to million of dollars)

Program name	FY1997	FY1998
High energy physics	\$69.0	\$73.6
Nuclear physics	36.2	46.7
Basic energy sciences	81.2	76.0
Biological & environ. research	25.0	25.3
Environ. restoration/waste mgmt.	27.8	31.0
Science education	.1	0
Technology transfer	3.6	3.4
Nonproliferation & safeguards	19.4	17.8
Other	8.7	11.2
Total DOE operating/capital	\$270.7	\$284.8
Work for others	46.3	49.6
RHIC construction	65.0	59.4
Other construction	23.1	14.4
Total BNL Funding	\$405.1	\$408.2

*as of September 30, 1997

tron Radiation Laboratory — are the most used. In fact, "The NSLS has over half of the light source users in the country," said Melucci.

Thus, the panel recommended that all four light sources be maintained and that the two older sources be upgraded. Further, the panel recom-

retarding their movement in groundwater. For instance, strontium in groundwater moves less than 25 feet per year, while cesium moves at less than one foot per year. Therefore, any leaked contamination is expected to be found near the BGRR, and new groundwater monitoring near the BGRR will start presently.

Because the BGRR and its facilities are documented environmental concerns scheduled for remediation by BNL's Office of Environmental Restoration as one of the Superfund projects on site, groundwater samples have been taken over the past several years in areas directly east of the air duct and about 500 feet south. These samples have shown strontium-90 concentrations only up to about 50 pCi/L and tritium of less than 1,000 pCi/L.

In addition to planning on how to remove the contaminated water from the duct and undertaking groundwater monitoring, BNL has set up a team to address the environmental issues associated with the BGRR complex. The Lab and DOE are working together to increase monitoring and stabilization activities.

Air-Duct Water (cont'd.)

as one of its decay products.

The uranium that was used as the reactor's fuel was contained within sealed aluminum cartridges. Rarely, when the reactor operated, a fuel cartridge failed: that is, the aluminum cladding cracked or broke. Reactor operators immediately took the failed cartridge out of service and disposed of it appropriately.

When a cartridge failed, however, some radioactive particulates could have been released and drawn by exhaust fans into the air duct. These particulates would have then been trapped in the filter bank used to remove radioactivity, before being discharged from the 300-foot stack.

Some particles, however, could have remained in the duct prior to the filtering process and, eventually, combined with water in the duct.

Investigation is also under way to determine whether contaminated water has leaked from the air duct.

With the exception of tritium, which behaves like water, most radioactive elements tend to bind to soil, greatly

Healthline Lecture Choosing Among Healthy Exercises

If you are built like a runner but hate jogging, or if you are built like a couch potato but want to get yourself out of the potato-chip bag, then this Healthline lecture is for you.

Sponsored by the Health Promotion Program (HPP) of the Occupational Medicine Clinic, "Cardiovascular Exercise: Choosing the Best One for Your Lifestyle" will be presented by exercise physiologist Laura Tipaldo, on Tuesday, November 4, from noon to 1 p.m. in Berkner Hall.

To register for this lecture, complete and return the bottom portion of the Healthline flyer recently sent to all employees to Health Promotion Specialist Mary Wood, Bldg. 490, by Monday, November 3. For more information about HPP and its Healthline lecture series, call Ext. 5923.

TFCU Reps On Site

To provide information on credit union products and services, representatives from Teachers Federal Credit Union will be available, on Wednesday, November 5, from 11 a.m. to 2 p.m., in the lobby of Berkner Hall.

So stop by to open an account or ask questions. For more information, call Ext. 2790.

Celebrate Diwali — The Festival of Light!

The BERA Indo-American Association (IAA) will celebrate Diwali, the festival of light, on Saturday, November 8, 3-9 p.m. in Berkner Hall. The event features a cultural program presented by local performers, followed at 6:30 p.m. by an authentic Indian dinner.

Tickets for this celebration that are purchased before November 5 will cost: \$10 for adults, \$9 for IAA members, and \$6 for children. If available, each door ticket will be an extra \$1 per person.

To buy tickets, contact Syed Khalid, Ext. 7496 or 744-5895; Vibha Mane, Ext. 3077 or 821-8389; Kumi Pandya, Ext. 7734 or Ext. 1021; or Achyut Tople, Ext. 5672 or 345-2677.

Software Demo

CCD will host an AutoCAD technology day on Thursday, November 6, in the seminar room of Building 515. Beginning at 10 a.m., representatives from Widom Associates and Softdesk will demonstrate AutoCAD release 14 architectural. Then at 1:30 p.m., they will demonstrate Autodesk's Mechanical Desktop. For more information, call Chris Neuberger, Ext. 4160.

Archery Club

The Archery Club will hold its next monthly meeting on Thursday, November 6, at noon in the large seminar room. Physics, Bldg. 510. New members are welcome. For more information, call Bill Schoenig, Ext. 2377.

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Haunted by Halloween Memories

Last Halloween, when Alice (Patricia Van Gorp) followed the White Rabbit (Jeanne Madaia) down the rabbit hole, she had her Adventures at BNL, instead of in Wonderland. Nonetheless, she met up with many of her friends from Lewis Carroll's book, including: (from left) the Mad Hatter (Mary Anne Corwin), the Cheshire Cat (Kathleen Nasta), and the King (Donna Storan) and Queen (Ann Fort) of Hearts. Together, they toured the Lab site, bringing wonder to all BNLeers who had the opportunity to enjoy this *tableau vivant* tradition once again. In 1987, Fort, Madaia and Nasta began taking vacation time to don costumes and spread fear and cheer around the Lab on Halloween. They've been doing it every year since, drawing in colleagues from the Department of Advanced Technology as needed to complete their themes. We don't know what the scenario will be for the group's 11th year, but we do know that it will be so much fun that Fort and another former tableau artiste, Sonja Santos, are coming out of retirement to participate again. So be on the lookout for them today, and have a Happy Halloween!



Halloween is sure to be celebrated royally today at BNL's Child Development Center (CDC), as it was last year when Iris Yu (above) arrived as a princess. Iris, who is now a CDC graduate, is the daughter of Bo Yu, Instrumentation Division, and Siyu Liu, who is shown here with her little princess.

Holiday Parties: Time To Reserve

Recreation Building

Lab and BERA groups interested in reserving the Recreation Building in the apartment area for holiday parties may send a representative to a meeting on Wednesday, November 5, at 11:30 a.m., in the conference room of the Human Resources Division, Bldg. 185. Reservations will be made in the order determined by a lottery, which will be held for those at the meeting. As long as dates are available, subsequent reservations may be made through Wednesday, November 26, by contacting the Recreation Office, Ext. 2873.

Brookhaven Center & Berkner Hall

Room reservations for parties at the Brookhaven Center or Berkner Hall may be arranged by calling Christine Ronick, Ext. 3545. To arrange catering for these parties, call Flik International, Ext. 3541.

Distinguished Cello-Piano Duo to Perform at Brookhaven

For the next BERA Concert, violoncellist Timothy Eddy and pianist Gilbert Kalish will perform in Berkner Hall on Thursday, November 6, at 8 p.m. The concert is open to the public: Tickets may be purchased at the door at \$14 for adults, \$9 for students and seniors, and \$5 for youths under 18.

Professor of cello at the State University of New York (SUNY) at Stony Brook, Eddy has won numerous awards in competitions worldwide, including top honors in the 1975 Gaspar Cassado International Violoncello Competition held in Florence, Italy.

As cellist for the Orion String Quar-



Gilbert Kalish

tet, Eddy appears in major musical centers in North America and Europe, and he is also an artist-in-residence with the Chamber Music Society of Lincoln Center and the Mannes College of Music, the solo cellist of the Bach Aria Group and, since 1993, a faculty member of the biannual Isaac Stern Chamber Music Workshop.

Professor of piano and head of performance at SUNY-Stony Brook, Kalish was honored in 1995 with the presentation of the Paul Fromm Award "for distinguished service to the music of our time," for his performances, recordings and his influence as an educator and pianist.

Chairman of the Tanglewood Music Center faculty since 1985, a founding member of the Contemporary Chamber Ensemble and pianist for the Boston Symphony Chamber Players since 1969, Kalish is also a soloist with the Boston Symphony Orchestra.

The Eddy-Kalish collaboration dates back to 1980, when the duo first appeared on the visiting-artists series at SUNY at Stony Brook.

The program that Eddy and Kalish will present consists of Ferruccio Busoni's Kultaselle: Variations on a Finnish folk tune; Benjamin Britten's Sonata in C, Op. 65; Astor Piazzola's Le Grand Tango; Anton von Webern's Two Pieces (1899) and Three Little Pieces, Op. 11; and Johannes Brahms' Sonata in E minor, Op. 38.



Timothy Eddy

For more information, call Ext. 3550 to listen to a recorded message.

Information on BNL: Free for the Asking

Packets of Laboratory information — brochures, fact sheets, past issues of the Brookhaven Bulletin — are yours free for the asking in the Public Affairs Office. So, if you need information for your neighbors, your children's teachers or whomever you know who has questions about the Lab, then stop by Bldg. 134 or call Ext. 2345.

Free Flu Shots

The Occupational Medicine Clinic is offering free flu vaccine to all eligible employees.

If you have not yet made an appointment for an injection, you may do so by calling Ext. 3670.

Atlantic City Trip

A few seats remain for the next BERA-sponsored, one-day trip to the Showboat hotel and casino in Atlantic City, on Saturday, November 15. The initial cost will be \$20, but the hotel-casino will give a \$13 coin return.

Buy tickets now at the BERA Sales Office, weekdays, 9 a.m. to 1:30 p.m.

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 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>.

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

SCIENTIST/ENGINEER - With at least three years' experience in one or more of the following: International or domestic nuclear safeguards, nuclear non-destructive and destructive assay measurement technology, containment and surveillance technology, systems analysis, and/or technical project management. Must have excellent interpersonal communication skills, and have the ability and desire to undertake a future two-year assignment in Vienna, Austria. U.S. citizenship and ability to obtain a Q-clearance are necessary. Candidates must be computer literate and experience with computerized project-management techniques is desirable. Demonstrated ability to work with scientists, engineers and government officials in an international environment is preferred. Contact: Ann Reisman, Department of Advanced Technology.

POSTDOCTORAL RESEARCH ASSOCIATE - Trained in environmental microbiology. Experience necessary in anaerobic microbial techniques, the use of chromatographic methods for separating and detecting organic products and biochemicals of microbial origin, and a working knowledge of organic and/or biochemistry. Will be involved in mechanistic and biotransformation studies on transition metal-organic complexes in anaerobic sulfate-reducing environments. Contact: A. Vairavamurthy, Department of Applied Science.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

NS4713. TECHNICAL POSITIONS - Requires an AAS in computer science, or the equivalent, knowledge of various PC operating systems such as Windows 3.11, 95, NT; Windows registry, installation, setup and configuration of operating systems; client software; and the ability to debug and resolve workstation problems. Knowledge of networking basics is a plus. Will configure new workstations, install client software, troubleshoot and resolve problems on client machines. Financial Services Division.

NS4715. DATABASE DEVELOPMENT ANALYST - Requires an MSCS or equivalent and hands-on experience in logical and physical design and implementation of relational databases. Experience in client-server and/or distributed data architectures, data warehousing, and a working knowledge of Oracle and/or Sybase is necessary. Knowledge of object-oriented concepts and methodologies is a plus. Financial Services Division.

NS4716. DATABASE DEVELOPMENT ANALYST - Requires a BSCS, MS preferred, and significant hands-on experience in logical and physical design and implementation of relational databases. At least several years' experience required in client-server and/or distributed data architectures, data warehousing, and a working knowledge of Oracle and/or Sybase. Knowledge of object-oriented concepts and methodologies is a plus. Financial Services Division.

DD4775. TECHNICAL POSITION - (term appointment) Requires an AAS in a technical field or equivalent experience, as well as experience working with digital/analog electronics and power supplies. Will repair and test data-acquisition equipment for the Communications & Support Group. Alternating Gradient Synchrotron Department.

DD5028. ANALYTICAL CHEMISTRY/ENGINEERING POSITION - Requires an MS in analytical chemistry, with demonstrated experience in analysis and reporting of PCBs and VOCs using USEPA methodologies. Experience in the operation and maintenance of CC/ECD, GC/MS instrumentation is also necessary. Experience in inorganic analytical techniques a plus. Working knowledge of Windows and Excel highly desirable. Duties will include sample analysis and reporting, and maintenance of instrument logs and QA/QC chemist notebooks, as well as routine lab functions. Safety & Environmental Protection Division.

Call for Volunteers: Link With LINCT

The Long Island Network for Community Telecomputing (LINCT)-East has asked the Lab's Diversity Office to recruit BNL volunteers to serve as computer trainers and repair staff, as part of LINCT-East's effort to teach computer skills to low-income Suffolk County residents.

LINCT-East is part of the national organization Learning & Information Networking for Community via Telenetworking, which was founded in 1994 in Hampton Bays, to assist local communities around the country to develop what it calls electronic equity — universal access to information and resources via computer networking.

LINCT participants not only learn basic computer setup, operating system and applications skills, but also gain job skills that prepare them for office and clerical work.

While there is no shortage of program participants, LINCT-East is looking for knowledgeable volunteers to serve as computer trainers for four hours a week and as computer repair staff. For more information, contact Jeff Taylor, Diversity Office, Ext. 2703.

Camera Club

At the next meeting of the BERA Camera Club, on November 5, at noon in Room D, Berkner Hall, digital photography and its practice using Adobe Photoshop will be discussed. All BNL employee-photographers are invited to attend the meeting to learn how to use this popular and professional photo-enhancement program.

In addition, the club reminds all Lab photo enthusiasts that PHOTO EXPO is at the Jacob Javits's Convention Center in New York City through November 1, 10 a.m.-5 p.m.

For more information or to suggest future meeting topics, contact Ripp Bowman, club president, Ext. 4672.

Time-Capsule Countdown

Your Suggestions Count

Use the coupon below to make your suggestions for BNL mementos to be placed within the Lab's 50th-anniversary time capsules, which will be buried on December 17 in front of Berkner Hall and reopened during Brookhaven's 100th-anniversary year in 2047. Due to space limitations within the capsules, not everything that is suggested can be placed — so not only think small, but also state your reason for your suggestion. Complete and return this coupon by November 14, to Patti Bender, time-capsule project coordinator, Bldg. 130.

Time-Capsule Suggestion Form

My idea for BNL time-capsule memorabilia is: _____

I think this is a good idea because: _____

This idea submitted by: _____

name
_____ extension _____ building

Complete and return this coupon by Friday, November 14, to Patti Bender, time-capsule project coordinator, Bldg. 130.