BROOKHAVEN BULLETIN
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BROOKHAVEN NATIONAL LABORATORY

Brookhaven Lab, Gas Research Institute Sign a CRADA for a Quiet Jackhammer

BNL and the Gas Research Institute of Chicago have signed a Cooperative Research and Development Agreement (CRADA) to continue developing a quieter, safer, more efficient, and environmentally friendly alternative to the conventional pneumatic jackhammer. Also contributing to the project are Keyspan Energy Company/Brooklyn Union, Consolidated Edison Company of New York, and Southern California Gas Company.

Called RAPTOR, for RAPid cuTter of cOncRete, the new device is expected to be tested and marketed within a year.

RAPTOR is a revolutionary technology that uses a Brookhaven-designed, two-stage, helium-driven gas gun to accelerate inexpensive, expendable, lightweight steel projectiles to at least 5,000 to 6,000 feet per second — twice the speed of bullets fired from a high-powered rifle.

In experimental tests, the researchers have demonstrated that this velocity can efficiently break up six-inch-thick pavement. Researchers are confident RAPTOR can be scaled up for even thicker concrete demolition.

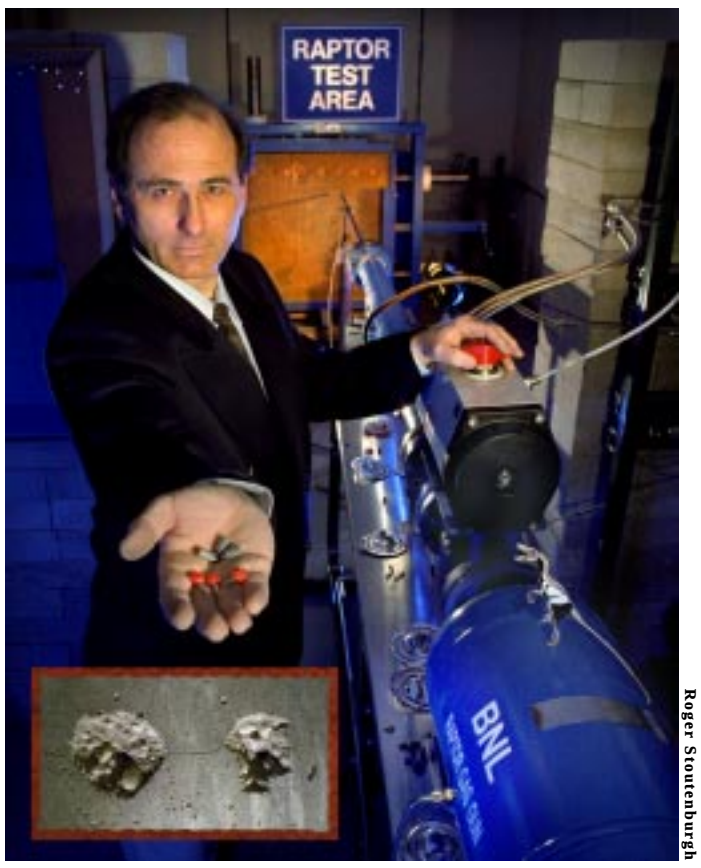
BNL's Department of Advanced Technology (DAT) engineers Gaby Ciccarelli and Mano Subudhi are principal investigators for the project, which is managed by Robert Hall, DAT.

During the past two years, they, along with the Gas Research Institute, Keyspan Energy Company/ Brooklyn Union and Consolidated Edison Company of New York, have developed a 15-foot-long prototype of RAPTOR, with a single-shot capacity, which has performed successfully in laboratory tests. The new, marketable version, expected to be completed with a year, will be about six feet long and will be equipped with an automatic pellet loader and a magazine so that it can operate continuously at the rate of 6 to 12 shots per minute.

RAPTOR will have many advantages over a traditional jackhammer, including reduction in energy use, noise and air pollution, traffic congestion, and operating costs.

While conventional jackhammers run on air supplied by a compressor, which uses gasoline or diesel fuel, the new device will operate on gases supplied by standard compressed gas cylinders and have only a small battery pack to supply power to solenoid valves, which are used to direct the flow of gases into and out of the simple device. The constant noise of a jackhammer would be replaced by the periodic

(continued on page 2)



Roger Stoutenburgh

DAT's Robert Hall, who manages the RAPTOR project at BNL, displays the steel and plastic projectiles fired quietly by the RAPTOR gas gun to break up concrete. The inserted picture shows how concrete cracks as a result of impact of the quiet jackhammer's projectiles.

Lab Director Calls All-Hands Meeting For September 9

On Thursday, September 9, Laboratory Director John Marburger will discuss the state of the Lab, the latest news on budget for the fiscal year 1999, and more, during an All-Hands Meeting which will be held at 11 a.m. in Berkner Hall. The Laboratory community is invited to attend.

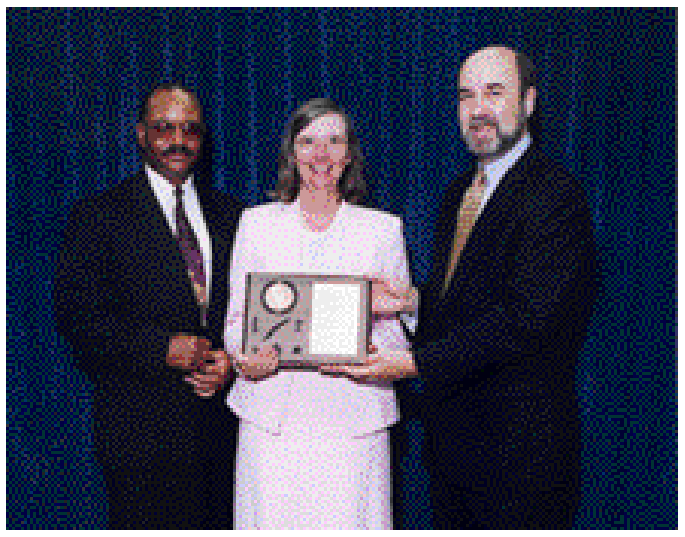
Lab Wins DOE's FY98 Corporate Small Business Award For Support of Small, Small Minority-Owned Businesses

For fiscal year (FY) 1998, the Lab was recently awarded DOE's Corporate Small Business Award, which recognizes excellence in supporting small businesses and small, minority-owned businesses.

At a ceremony on June 9 in Washington, D.C., Energy Secretary Bill Richardson presented the award to: Mary-Faith Healey, Manager of the Lab's Division of Contacts & Procurement (DCP); Dennis Hall, DCP's Small & Small Disadvantaged Business Liaison Officer; and Robert Gordon, who is the Director of the Administrative & Financial Management Division of DOE's on-site Brookhaven Group.

For FY98, which went from October 1997 through September 1998, DCP, on behalf of the Lab, spent over $60 million on purchases from small businesses and an additional $8 million on purchases from small, minority-owned businesses. These amounts exceeded the goals negotiated for the year under DOE's prime contract for the Lab.

Of the Lab's total FY98 budget of over $400 million, about $131 million was spent on goods and services. General construction projects, electronic components used in various scientific facilities, and environmental testing, remediation and protection accounted for many of Brookhaven's purchases in fiscal year 1998. — Diane Greenberg



(From left) Dennis Hall, the Small & Small Disadvantaged Business Liaison Officer in BNL's Division of Contracts & Procurements (DCP); DCP Manager Mary-Faith Healey; and Robert Gordon, the Director of Administrative & Financial Management Division of DOE's Brookhaven Group, display the plaque for the DOE 1998 Corporate Small Business Award which was presented to BNL by Energy Secretary Richardson at a June ceremony in Washington, D.C.

BNL-Recommended Supplier Receives SBA National Honor

Laser International, a small, minority-owned computer-supplies and office-equipment business based in Melville, was named the Small Business Prime Contractor of the Year by the U.S. Small Business Administration (SBA) on June 10.

The national award recognizes excellence in business services provided for government contractors such as the Lab.

After BNL honored Laser International in 1998 with a Supplier of the Year award at its Small Business Conference, Dennis Hall, who is the Small & Small Disadvantaged Business Liaison Officer for the Lab's Division of Contracts & Procurement, nominated the company for the 1999 Small Business Administration award.

Many business criteria are considered in choosing the winner of the award, including the company's expertise in its area of business, growth and potential, all-around business acumen, and customer satisfaction.

Laser International has been in business for seven years and has two employees.

During fiscal year 1998, Brookhaven signed 271 contracts with Laser International, totaling $325,800.

"Laser International has demonstrated its ability to service Brookhaven's account in a timely and efficient manner, with outstanding professionalism and dedication," Hall commented. — Diane Greenberg

Laser International President Syed Ali (center) is displaying the plaque that a Small Business Administration (SBA) representative (right) presented to him as SBA's 1999 Small Business Prime Contractor of the Year. Also seen at the Washington, D.C., ceremony is Dennis Hall, DCP's Small & Small Disadvantaged Business Liaison Officer who recommended Laser International for the award.

Baldwin Woman Wins 1999 Chasman Scholarship From BWIS

Roger Stoutenburgh

The 1999 Chasman Scholar Tracy Van Holt (fourth from left) stands with (from left) her parents Donald and Susan Van Holt and members of the BWIS Scholarship Committee: Mary Wood, Pam Mansfield, Dorry Tooker, and Lisa Tranquada.

Tracy Van Holt of Baldwin has won the 1999 Renate W. Chasman Scholarship for Women, the $2,000 grant awarded annually by Brookhaven Women in Science (BWIS).

A native of Long Island, Van Holt earned a B.S. in biochemistry from the State University of New York at Stony Brook (USB) in 1994.

Soon after her graduation, she was selected by USB to work on a field biology project in Madagascar. Following that experience, she decided that she was more interested in ecology than biochemistry.

After her return from Madagascar in 1996, Van Holt began an internship in the Education Department of the Wildlife Conservation Society, headquartered at the Bronx Zoo, where she helped to design a new science curriculum.

Upon finishing her internship, Van Holt began applying to graduate programs to earn her Ph.D. in ecology, but the accidental death of a very close friend interrupted her educational plans.

Nevertheless, she landed a full-time position with the Wildlife Conservation Society, where she recently investigated the effects of varying land uses on fish, reptiles and amphibians in New York's Great Swamp.

This summer, as part of her duties at the Wildlife Conservation Society, Van Holt will be going to Brazil to study a bird called the hyacinth macaw, which is an endangered species, to determine what factors are affecting its reproductive success. This field research will complement her Ph.D. studies, which she begins this fall at the University of Florida.

"My accomplishments to date attest to my personal and professional commitment to the conservation of biodiversity," said Van Holt.

"In the future, I see myself working in a science-based, international organization such as the Wildlife Conservation Society. Based on my field experience, I want to continue to work in a wetlands habitat because of the critical importance of these ecosystems to both people and animals," she concluded.

The Chasman Scholarship is named after the late Renate Chasman, an internationally renowned accelerator physicist who codesigned the two synchrotron storage rings at BNL's National Synchrotron Light Source and whose work has been used as the basis for the design of synchrotron storage rings around the world.

The scholarship is intended to encourage women to pursue careers in science, engineering, or mathematics. Since its inception in 1986, the award has been presented each year to a woman whose college education had been interrupted, but who returned to school at least half time to pursue a degree. — Diane Greenberg

RAPTOR (cont'd)

sound of a silenced rifle-like shot. The new device would be faster than a conventional jackhammer, which means more efficient use of operators and less traffic congestion as a result of construction.

Also, RAPTOR is safer and more worker-friendly than a conventional jackhammer, which commonly causes lost work time due to injuries, such as back sprain.

Ciccarelli and Subudhi estimate that RAPTOR will cost about 25 percent less to operate than a conventional jackhammer. Hall anticipates the device should be ready for field tests in New York City by June 2000.

— Diane Greenberg

Diversity Visa Lottery

The Office of Scientific Personnel (OSP) has received information regarding the Diversity Visa Immigrant Program for the year 2001 (DV-2001).

This is designed to benefit natives of what are known as low-admission countries. To be eligible, a foreign national must be a native of a designated country and must also have at least a high-school education or its equivalent, or have worked at least two years in an occupation requiring two years of training or experience.

Applicants for diversity visas are initially chosen through a random computer-generated lottery drawing. Visas are apportioned among six geographic regions, with a greater number of visas going to regions with lower rates of immigration, and no visas going to countries from which more than 50,000 immigrants have come to the U.S. in the past five years. No one country may receive more than 7 percent of the available diversity visas in any one year.

For the purposes of the DV-2001 program, immigrants from the following countries are excluded: Canada, China — excepting Hong Kong S.A.R. — Colombia, Dominican Republic, El Salvador, Haiti, India, Jamaica, Mexico, the Philippines, Poland, South Korea, Taiwan, the United Kingdom — excepting Northern Ireland — and its dependent territories, and Vietnam.

Entries for the DV-2001 program must be received only between noon on Monday, October 4, and noon on Wednesday, November 3, 1999. Entries received before or after these dates or sent to the wrong address will be disqualified.

For more information, contact Brenda Kirk, OSP, Bldg. 185A, Ext. 5877.

Computing Corner

Computer Training

The Information Technology Division (ITD) will offer the following classes in August and September:

date	class	level
8/31	FrontPage	beginner
9/8	PowerPoint	beginner
9/9	Word	beginner
9/10	Excel	beginner
9/13-15*	C++	C programmers
9/15 & 17**	Access	beginner
9/16	Outlook	
9/22	Word	intermediate
	FrontPage	beginner
9/24	Excel	intermediate
9/29	PowerPoint	intermediate

* ILR for this three-day class due by August 31
** Two-day class

See the ITD training page at www.ccd.bnl.gov/bnl/training for registration information and course outlines.

For more information, contact Pam Mansfield at Ext. 7286 or pam@bnl.gov.

Y2K Microsoft Update

Beginning January 1, 2000, Windows 95, 98 and NT, and Microsoft Office products will no longer work perfectly — unless certain software patches are applied.

These fixes must be installed by ITD's Ralph Wiedmann or another technically qualified person.

To avoid the rush at the end of the year, ITD recommends that all Microsoft Windows and Office users call the Help Desk, Ext. 5444, to schedule patch installations or software upgrades. When calling, know the computer's bar code and whether the computer is considered BNL essential, department essential, or nonessential.

For more information on the impact of Y2K on Microsoft products, go to www.microsoft.com/technet/year2k/product/product.asp.

In Memoriam

Francis Painter, a firefighter who had retired from the Fire Department on December 31, 1975, after 28 years at the Lab, died last September 13, at the age of 88. He had started at the Lab as a Firefighter A on March 21, 1947.

•

James Morris, who had first come to the Lab on April 25, 1966, to work as a plumber A in the Plant Engineering Division, died on February 12. He was 69. He had retired as General Supervisor, Piping, on October 13, 1989.

•

Charles Watson Jr., who had joined the Lab as a cabinetmaker B on April 8, 1963, in what became the Plant Engineering (PE) Division and had retired as a locksmith on December 31, 1987, died on March 5. He was 74 years old.

•

Edward Bihn, a technical associate I who had retired on November 30, 1989, after 27 years in the Physics Department, died on March 13 at the age of 73. He had joined BNL on November 12, 1962, as an intermediate technician.

•

William Farrell, who had joined the Lab on March 24, 1947, died on March 18, at the age of 78. He had spent over 37 years in what became the Plant Engineering Division, starting as a furnace fire man and retiring as a senior stationary engineer on October 22, 1984.

•

Ernest Lange, who had come to the then Proton Synchrotron Department as a technician B on October 6, 1958, died on March 19. He was 75. After 28 years, he had retired from the National Synchrotron Light Source Department on January 31, 1987, as a technical associate II.

•

Mary Sowiak, who had joined the then Purchasing Division as a typist B on May 25, 1949, died on March 21, at the age of 74. She had served the Lab for 40 years, retiring from the then Supply and Materiel Division on May 31, 1989.

Grace Vestal, who had become a telephone operator in the then Staff Services Division on February 6, 1969, died on March 25, at the age of 63. After 26 years of service, she had retired from the Lab on November 19, 1995.

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Graham Ryan, who had joined the Alternating Gradient Synchrotron Department as an intermediate technician on May 1, 1961, and, after 32 years, had retired as a senior technical supervisor on May 14, 1993, died on April 11. He was 68.

•

John Green, a tool & instrument maker when he retired from the Lab on April 27, 1984, died at the age of 78, on April 22. He had spent 22 years at BNL, having joined the Central Shops Division as a machinist on December 26, 1962.

No Bulletin on 9/10

In observance of Labor Day, the Lab will be closed on Monday September 6, so there will be no Bulletin published that Friday, September 10.

Clean-Up Crew Ready to 'Clean It Up, Keep It Clean'

Roger Stoutenburgh

(From left) Clean-up crew members Herb Harris and Dolly Johnson of the Plant Engineering Division pose with the Litterbuggy, the electric golf cart that was transformed into an on- and off-road vehicle for picking up roadside and lawn litter (see Brookhaven Bulletin, July 13, 1990).

Through the end of fiscal year 1999, the Plant Engineering Division is offering the "free" services of a clean-up crew, which is available to help BNL Departments and Divisions clean up and dispose of unwanted nonhazardous material that has accumulated indoors or out.

For instance, this crew has been busy removing broken furniture and rusted bicycles, cleaning out basements and unoccupied offices, and trimming overgrown shrubbery and sweeping up sandy parking lots.

To obtain the help of this crew without charge, contact Maintenance Management, Ext. 2468. For more information about the services provided, call Slim Blevins, Ext. 4806.

'Take Our Sons To Work' Day 10/11

The Lab will this year again be offering a "Take Our Sons to Work" day, on Monday, October 11.

To help make the day memorable for BNLers' sons, volunteers with fresh ideas are needed for an organizing committee. To join, contact the event's coordinator, Susan Foster, Human Resources Division, at Ext. 2888 or e-mail foster2 @bnl.gov.

On-Site SCC Courses

Beginning in September, Suffolk Community College (SCC) will offer three courses on site:

- **Math 23** - Statistics I: which is a basic course for students interested in social sciences, health sciences, and/or business.
- **EG11** - Standard Freshman Composition: which deals with writing style, sentence structure, paragraph development, punctuation, and vocabulary.
- **PC11** - Introduction to Psychology I: which covers the principles of human behavior, including learning, motivation, sensation, and perception.

While there is sufficient enrollment for the English and psychology class to be held, more students are needed for the statistics class. For more information about the courses and how to register, contact Nina Leonhardt at the SCC Office of Continuing Education, 451-4607.

Eligible BNL employees who take one or more of these courses may be able to apply for tuition assistance.

For more information about the Lab's Tuition Refund Program and its Pre-College Program, contact Starr Smith, Human Resources Division, Ext. 7631.

Upton Nursery School Opens Enrollment

The Upton Nursery School, a small, parent-run, cooperative nursery school that meets in the Recreation Building in the apartment area, is now accepting registration for children two-and-a-half to four years old for the 1999-2000 school year, which runs from September through June.

The school provides small classes and a warm environment. Brief periods of formal instruction are followed by activities that encourage language, social, and motor skills development.

Parent involvement gives a student-to-teacher ratio of four to one, and the multicultural atmosphere ensures that children who cannot yet speak English are welcome.

Children of BNL employees, facility users, guests, on-site contractors, and their families have been attending the preschool since 1965. Classes are held on Mondays, Tuesdays and Thursdays, from 8:30 to 11:30 a.m., and tuition is $110 per month.

For more information or to register a child, contact Shelly Shumway, 732-1367, or shellyshumway@yahoo.com.

BROOKHAVEN BULLETIN

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The Brookhaven Bulletin is printed on paper containing at least 50 percent recycled materials, with 10 percent post-consumer waste. It can be recycled.

Wanted: Bowlers, Now!

Calling all bowlers — the all-time greats and those just beginning: applications for the Tuesday night men's league, which plays in Port Jefferson, and the Thursday night mixed league, which plays in Shirley, are available now.

To pick up applications, contact: Tracy Blydenburgh, Bldg. 750, Ext. 4422; or Debbie Keating, Bldg. 355, Ext. 3888.

Team registrations and payments are due at the captains' meeting, which will be held Monday, August 30, noon to 1 p.m., in Room B, Berkner Hall.

The leagues are open to all BNL and USB employees, retirees, facility-users, contractors, friends, and family members over the age of 18.

For more information about the men's league, contact Ron Mulderig at mulderig@bnl.gov, or Keating at botts@bnl.gov about the mixed league.

BNL Cycletrons Host Annual Family Picnic

Wednesday, September 1, is the last day to purchase tickets for the BNL Cycletron' second annual Family Picnic, which will be held on Saturday, September 11, from noon until sundown in the gazebo near the Lab's ball fields. The rain date is Saturday, September 18.

Activities for the day will include bike games, horseshoes, volleyball, softball, relays, three-legged races, and water play. Bring your favorite music and a towel. All are invited. While children of 12 and under will be admitted free, the fee of $5 entitles participants to hamburgers, hot dogs, salads, sodas, and more.

Purchase tickets now from: Chuck Baldwin, Ext. 4688; Rich DiFranco, Ext. 3868; Frank Dusek, Ext. 2022; or Charles Gardner, Ext. 5214.

BNL Dance Club Invites Beginners To Cha Cha, Fox Trot, Swing, Jive

The BNL Dance Club's new year of classes begins on Wednesday, September 15 (see schedule in last week's Bulletin), and all are welcome to join one or both of the classes for beginners and newcomers.

At 5:30 p.m., a beginner class on American cha cha and fox trot will be offered, and, at 6:30 p.m., an American swing and International jive class for beginners will be taught.

Members from last year are also invited to take the 7:30 p.m. level I and II review class on International samba and Viennese waltz.

Each class is one hour long, taught over eight weeks on Wednesdays in the North Ballroom of the Brookhaven Center, and costs $25 per person. BNL employees, retirees, facility-users, on-site contractors, their families, friends, and dance partners are invited to join. Sign up now, as these classes are popular and will not be offered again for another three years.

To register for one or more of the classes, send a check payable to the BNL Dance Club to Marsha Belford, club president, Bldg. 134. Include a note with your name, Bldg., Ext., name of the class, and the name of your partner (partners are advised to sign up together). If you do not have a partner, then you will be put on a waiting list until a partner is found, as the club only signs up equal numbers of women and men.

Service Awards

The following employees celebrated service anniversaries during August:

35 Years

Michael Carroll .. Emerg. Services
Roman J. Nawrocky ..... NSLS

30 Years

Kenneth P. Mohring .... Admin. Support

25 Years

Melville J. Bonanno ... Plant Eng.
Richard C. Melucci ..... Budget
Sylvia Mouzakes Admin. Support
Maryann Musso ..... Adv. Tech.
John E. Pepe ..... Info. Tech.
Nicholas C. Satterley Cent. Shops
Martha N. Simon ..... Biology
John L. Usher ..... Ind. Oversight
Donald A. Warner ..... Chemistry

20 Years

Enrique E. Abola ..... Biology
Rudulfo A. Alforque ..... RHIC
Phylis A. Bates .... Admin. Support
Nicole M. Bernholc ..... S&H Serv.
Christian T. Neuberger ... Info. Tech.
Frederick T. Reinert ... Cent. Shops
Thomas J. Romano ..... NSLS
Pranab K. Samanta .... Adv. Tech.
Yung K. Wang ..... Adv. Tech.

10 Years

Gregory P. Heppner ..... RHIC
Thomas J. Joos ..... Reactor
Robert J. Priest ..... Reactor
Betsy J. Schwartz ..... Info. Serv.
Gary J. Weiner ..... NSLS

Arrivals & Departures

Arrivals

Sanjee Abeytunge ..... AGS
Gerald A. Simiele ..... Environ. Serv.

Departures

Coomaraswamy Gopinath ... Physics
Altaf Mubaraki ..... App. Science

Classified Advertisements

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

MK8725. ASSOCIATE PHYSICIST/PHYSICIST - To serve as Deputy Computing Facility Director for RHIC, sharing primary responsibility for developing and operating the Lab's major high-energy and nuclear physics computing facilities. Targeting RHIC experiments at BNL and the LHC Atlas experiment at CERN, these facilities will operate at the Tera-scale of computation and the Peta-scale of data storage. In collaboration with the facility director, will focus on the evolving computing needs of RHIC, and play a principle role in developing and implementing an ongoing plan to meet them. Requires a Ph.D. in physics, at least five years of postdoctoral experience in large-scale nuclear-physics projects and their associated computing activities, and demonstrated leadership, planning and management skills. Substantial expertise in areas such as UNIX system administration, modern programming techniques, tools and languages, and large-scale data processing and storage systems also required. Under the direction of B. Gibbard, Physics Department.

MK8726. ASSOCIATE PHYSICIST/PHYSICIST - to serve as Deputy Computing Facility Director for the U.S. Atlas Project, sharing primary responsibility for developing and operating the Lab's major high-energy and nuclear physics computing facilities. Targeting RHIC experiments at BNL and the LHC Atlas experiment at CERN, these facilities will operate at the Tera-scale of computation and the Peta-scale of data storage. In collaboration with the facility director, will focus on the evolving computing needs of the US Atlas Project and play a principle role in developing and implementing an ongoing plan to meet them. Requires a Ph.D. in physics, at least five years of postdoctoral experience in large-scale nuclear-physics projects and their associated computing activities, and demonstrated leadership, planning and management skills. Substantial expertise in areas such as UNIX system administration, modern programming techniques, tools and languages, and large-scale data processing and storage systems also required. Under the direction of B. Gibbard, Physics Department.

MK8723. POSTDOCTORAL RESEARCH ASSOCIATE - To contribute to the analysis of data and the running of the muon g-2 experiment. Requirements include a Ph.D. in experimental particle physics. The Lab is playing a leading role in the hardware and software efforts associated with this experiment, which, at the start of this year, had a successful run with muon injection; rigorous analysis of the data from that run is under way. Under the direction of H. Gordon, Physics Department.

Roll Up Your Sleeve: Blood Drive on 9/9

The three-day Labor Day weekend is approaching, which means a long good-bye to summer — but a hello to a short supply of blood.

Unfortunately, long weekends mean more accidents and more accident victims needing blood. That translates into a depletion of the stock of the local blood banks.

To replenish Long Island's blood supply following the holiday weekend, BNL is holding its annual summer Blood Drive after Labor Day — on Thursday, September 9, from 9:30 a.m. to 3 p.m. in the Brookhaven Center.

The spring blood drive, which was held at the Lab on June 17 & 18, drew 396 BNLers who volunteered to give, of whom 356 were able to donate. As a result, 356 units of blood were collected to help stock the shelves of Long Island's blood banks.

During the upcoming donation day, BNL Blood Drive Chair Susan Foster asks the Lab community if it can top that number of donated units.

Those eligible to donate are people in good health between the ages of 17 and 76 who have not donated blood in the past 56 days.

To make an appointment, contact Foster at Ext. 2888 or e-mail donateblood@bnl.gov. In your message, include your name, extension, and preferred time to donate.

Ultimate Summer Sunday of 1999

BNL's Firehouse Featured This Sunday 8/29

Michael Herbert

If you wanted to be a firefighter when you grew up and/or have kids who still do, then come back to the Lab this Sunday for the ultimate Summer Sunday tour of 1999.

On that Sunday, the Fire-Rescue Group will open the roll-up doors of the four bays of BNL's own firehouse, Bldg. 599, and the compartments of its various fire engines for a general inspection.

Built in 1985, the Lab's firehouse features include: a modern control room, from which firefighters maintain contact with the rest of the Lab; a tower for drying wet fire hoses, which is also used for ladder drills and rappelling training; a ten-Murphy-bed bunk room; a library and conference room; and an exercise room.

Welcoming visitors to the firehouse is a stone eagle statue, which, from 1941 to 1985, stood in front of BNL's first firehouse on Railroad Street, which also served the U.S. Army's Camp Upton.

The firehouse's four bays house Fire-Rescue's two class A pumpers, its "stumpjumper" brushfire truck, its ambulance, the hazardous-materials response trailer, and the chief's car.

One of the features of Sunday's facility tour will be demonstrations of how, using a laptop computer connected via an air bridge to the Internet, Chief James Roesler can access emergency information about the Lab while on the road or responding at the scene.

On hand for the tour will be Fire-Rescue's White Shift, which is one of the three that staff the firehouse 24 hours a day, and is headed by Captain Bill Leigh-Manuell and Lieutenant Tony Realmuto.

In addition to their everyday vigilance, response to on-site alarms and saving of employee lives (see Brookhaven Bulletin, March 28, 1997, and July 28, 1995), BNL firefighters have distinguished themselves within the local community, through their service to the Town of Brookhaven.

For instance, Lab firefighters were among those who fought the Rocky Point and Westhampton wildfires of 1995 (see Brookhaven Bulletin, September 1, 1995).

They were also the ones to answer haz-mat calls in Brookhaven Town while its fire companies were involved in TWA Flight 800 recovery work (see Brookhaven Bulletin, August 16, 1996).

Most recently, BNL firefighters were among those who responded to a haz-mat call for mutual aid on July 29, when a chemistry teacher at the Rocky Point High School accidentally set off an explosion.

Besides the tour of the firehouse, Lab tourists may also take a guided bus trip around the site, participate in the Whiz Bang Science Show, and view the Camp Upton Science Museum.

Fun for children of all ages, the Whiz Bang Science Show is a lively interactive demonstration of basic scientific principles which will be presented at 10:30 a.m., noon, 1:30 p.m. and 3:30 p.m. in Berkner Hall.

Housed in a former Camp Upton chapel, the Camp Upton Historical Collection contains the history of the site during its pre-Lab days as a U.S. Army camp during World Wars I and II.

BNL's Summer Sunday tours run from 10 a.m. to 5 p.m., but visitors must arrive before 3 p.m. The tours are free and open to the public, and no reservations are needed.