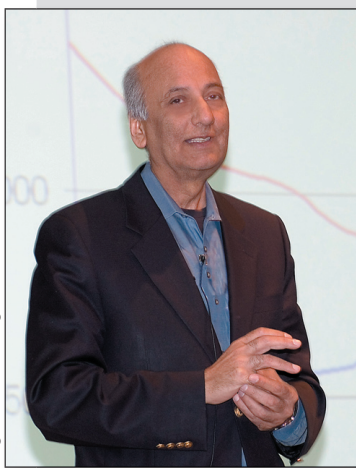


## Budget Future Bright, Reports Lab Director Attributes Growth Potential To Employees' Hard Work

*"Fortunately for us, we are well positioned. We have a very clear idea of where we want to go, and we've developed a large number of initiatives."*  
— Praveen Chaudhari  
Laboratory Director

Roger Stoutenburgh D0240206



BNL has made it through a difficult budget period, is expecting a generous FY 2007 budget, and is poised to grow substantially over the next five to ten years through several Federal and Laboratory initiatives, Laboratory Director Praveen Chaudhari told employees during a February 10 all-hands meeting.

"It looks as if 2007 will be a great year," said Chaudhari, explaining that the President's FY07 budget includes full funding for RHIC, \$45 million for initial research and development and engineering analysis for NSLS-II, and \$18.9 million for the completion of the Center for Functional Nanomaterials (CFN) construction project. "Our budget is up by about 15 percent . . . and that's because we were well positioned to receive the money."

The idea of the Lab's putting itself in a position to succeed through the hard work of its staff was one that Chaudhari returned to often in his talk.

"We were delighted to hear, when President Bush gave his State of the Union address, that he plans to double, over the next ten years, the amount of investment in science, engineering and education," said Chaudhari. "Fortunately for us, we are well positioned. We have a very clear idea of where we want to go, and we've developed a large number of initiatives."

In terms of nuclear physics, Chaudhari said, "The budget for '07 looks remarkably good — it's about a \$30 million increase. We should have a full RHIC run next year."

NSLS-II will similarly benefit, funded to the tune of \$45 million next year. "The focus now will be on reaching the Critical Decision 1 milestone for NSLS-II," said Chaudhari. "We're making an all-out effort to get that light source located here, and that decision should be made in about 12 months."

In terms of the CFN, "The building is going up, and construction is proceeding as planned. That construction will be completed in '07, and we will begin a transition to operations," he said.

Chaudhari also pointed out other areas that should see growth, including biology, energy, environment, and national security, and said that while medical imaging took a hit this year and next, he expects the program to continue and grow in '08.

"The Lab will find the money to support the program this year and next year while a National Academies of Science (NAS) study determines whether DOE or the National Institutes of Health or both should fund this program," he said. "It's important for the administration to make that decision based on the science and where it can best be done, and I think that when it is made, based on the NAS study, medical imaging will blossom within DOE."

Due to NSLS-II, CFN, and other initiatives, the Director said that he expects BNL's population to reverse its recent decline and add upwards of 300 staff and \$250 million in base budget by 2010. "This tells you that the Lab has turned a corner and will now start to grow," he said. "This is remarkable growth, and I attribute all of that to you — it's your hard work that produced the ideas, that produced the vision, and that set the Lab on the right course." — Peter Genzer

## BNL-Produced Accumulator Ring Commissioned At ORNL-Located Spallation Neutron Source

The Spallation Neutron Source (SNS), located at Oak Ridge National Laboratory (ORNL), has passed another milestone on the way to completion this year — the commissioning of the proton accumulator ring that is BNL's contribution to the project. Five DOE Office of Science laboratories — Argonne, Berkeley, Brookhaven, Jefferson and Los Alamos — participated with ORNL in the design of the SNS project, which will produce the world's most intense neutron beams to probe the molecular structures of materials. As a user facility, the SNS is expected to attract researchers from all over the globe.

"The ring is the last major accelerator element delivered by one of the partner labs in the six-laboratory project," said SNS Director Thom Mason. "Its successful operation confirms not just the robustness of the BNL components but also the full integration of accelerator hardware designed and built using expertise throughout the national DOE complex. We are looking forward to the first beam on target later this year."

The accumulator ring is the final step in a proton's journey through the accelerator before it strikes the SNS's mercury target, "spalling" away neutrons to be used for research. BNL led the design and construction of the accumulator ring, which will allow an order of magnitude more beam power than any other facility in the world.

In SNS operation, the superconducting linac produces proton pulses traveling at almost

90 percent of the speed of light. In the ring, the protons within a pulse are "accumulated" to increase the intensity a thousand-fold. At that point, this now very intense pulse is extracted and delivered to the mercury target to produce neutrons. This happens 60 times per second.

During its recent commissioning, after only three days of its initial operation, the ring accumulated protons, which were then extracted and sent to a point just short of the target.

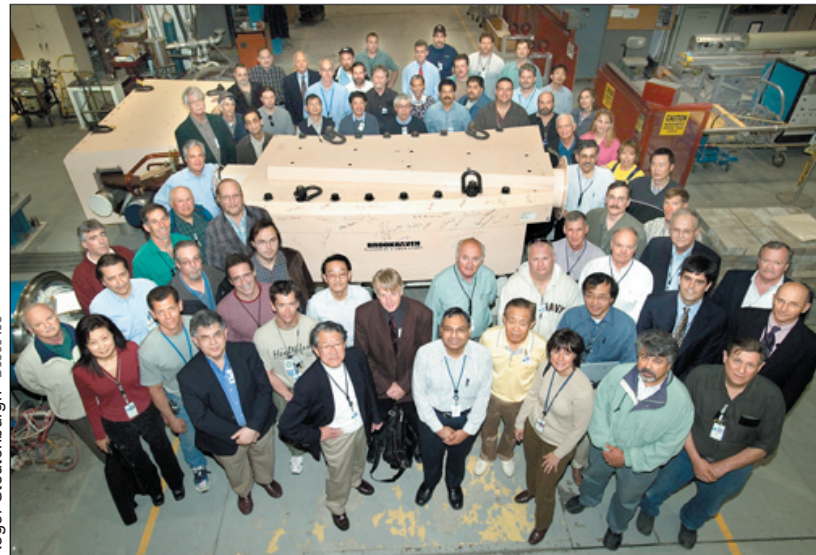
"The successful commissioning of the accumulator ring — in record time for this type of device — is a testament to the extraordinary collabora-

tion between Brookhaven and Oak Ridge," said Jie Wei of the Collider-Accelerator (C-A) Department, who led the BNL team. "The Brookhaven team is extremely proud of the quality of the product that we delivered. This is the result of more than seven years of hard work of the whole team."

Said Derek Lowenstein, C-A Chair, "We initially promised ORNL that the BNL A-team would tackle the assignment and the success of the accumulator ring proves it."

"With this extraordinary success, we are definitely on our way to operate the world's h

(continued on page 2)



Roger Stoutenburgh D0300405

BNL's involvement in the Spallation Neutron Source (SNS) project located at Oak Ridge National Laboratory (ORNL) started in 1997. The work included design, R&D, and manufacturing of the SNS accumulator ring and beam injection and extraction transport lines. By March 2005, the last components had been manufactured at Brookhaven, marking the end of the involvement on time and on budget. On April 21, 2005, during the official hand-off between BNL and ORNL, some of the SNS team, including staff from the Collider-Accelerator Department and the Superconducting Magnet Division, were pictured with ORNL visitors Thom Mason, Carl Strawbridge, and Norbert Holtkamp.

## Five Brookhaven Employees Honored With 2006 BNL Engineering Awards

At the Fiscal Year 2006 BNL Employee Recognition Award Ceremony held on Thursday, February 2, Laboratory Director Praveen Chaudhari and others congratulated 15 BNL employees for their talent and dedication, which won each awardee the Science &

Technology Award, the Engineering Award, or the Brookhaven Award, and \$5,000. Also recognized were the FY05 Spotlight Award winners. Science & Technology winners were featured last week; this week, the Bulletin focuses on the winners of the Engineering Award.

Science & Technology Award recipients are: James Alessi, Collider-Accelerator (C-A) Department; Stephen E. Schwartz, Environmental Sciences Department; D. Peter Siddons, National Synchrotron Light Source (NSLS) Department; Alexei Tselik, Condensed Matter Physics & Materials Science Department; and Peter Vanier, Nonproliferation & National Security Department. Engineering Award recipients are: Russell Dietz, Environmental Sciences Department; Sachin Junnarkar, Instrumentation Division; James Mills, Plant Engineering (PE) Division; Jon Sandberg, C-A; and Andrey Sukhanov, Chemistry Department. Brookhaven Award recipients are: John DiNicola, PE; Nicholas Gmur, NSLS; Ray Karol, C-A; Gerard Shepherd, Safety & Health Services Division; and Peter Stelmashuk, PE. The winners of the awards will be featured in this and future Bulletins.



Roger Stoutenburgh D0020206

Presented by Andy McNerney, Assistant Laboratory Director for Facilities & Operations, the Engineering Award recognizes distinguished contributions to the engineering and computing objectives of the Laboratory over one or more years. Contributions may be in any engineering or computing disciplines. Nominees are evaluated on the exceptional nature and level of difficulty of the contributions as well as their benefit to the Laboratory. The winners of the FY 2006 award are featured on page 2.

Winners of the FY 2006 Engineers Award are: (from left) James Mills, Plant Engineering Division; Russell Dietz, Environmental Sciences Department; Sachin Junnarkar, Instrumentation Division; Andrey Sukhanov, Chemistry Department; and Jon Sandberg, Collider-Accelerator Department.



# Five BNL Employees Honored With 2006 BNL Engineering Awards

## Russell Dietz



Russell Dietz, a chemical engineer in the Environmental Sciences Department,

was cited for developing innovative analytical techniques to sample and measure perfluorocarbon tracer (PFT) compounds at extremely low concentrations and for devising novel applications for this technology.

Dietz is internationally recognized as an expert in using PFT techniques for solving difficult energy and environment issues. These include measuring air exchange rates in homes to evaluate radon and other indoor air pollutants, finding fluid leaks in underground power lines, and evaluating the effectiveness of nuclear power control room filtration systems to ensure their safety under accident conditions.

PFTs have been used for many environmental remediation applications, including testing the effectiveness of underground storage tanks and evaluating landfill covers for waste sites. Under Dietz's direction, PFTs were also used in understanding pollutant transport from sources such as coal-fired plants, on global, regional and local levels.

Recently, PFTs were used in several large homeland security studies to examine how contaminants behave in complex urban environments.

Dietz joined BNL as a junior research associate in 1962, working on his thesis topic in radiation chemistry. He received a Ph.D. in chemical engineering from the Polytechnic Institute of Brooklyn in 1964.

## Sachin Junnarkar



Staff Engineer Sachin Junnarkar, who joined the Instrumentation Division

in 2001, is recognized for his outstanding contribution to BNL's science mission, in particular for developing a precision, radiation-tolerant electronic circuit for detector readout — a circuit that plays a key role in the ATLAS experiment at the Large Hadron Collider (LHC) at CERN, Switzerland.

The digitizing board, which processes the signals from the ATLAS muon spectrometer, achieves a new level of performance in terms of high speed, low noise, and high dynamic range. The development of this circuit was particularly challenging due to the severe reliability and radiation-hardness requirements at the LHC, and its success has helped BNL to maintain its reputation as a world-leader in microelectronics.

Due to Junnarkar's extraordinary efforts, the production of 30,000 digitizer channels has been completed with high fabrication yield. Junnarkar's other noteworthy achievements include designing a high-speed digital encoder and time-to-digital converter for a miniature PET — positron emission tomography device.

Junnarkar's dedication and exceptional engineering skills, including uncommon versatility with both analog and digital circuitry, will be of great value in developing state-of-the-art instruments for future research programs in the Laboratory.

## Jim Mills



Senior Project Engineer Jim Mills of the Plant Engineering (PE) Division is

cited for his outstanding record of engineering accomplishments on some of BNL's most demanding projects.

Mills joined BNL as a project engineer at the Alternating Gradient Synchrotron, where he was responsible for planning, design, and construction of several large high-energy physics experiments. He became project engineer for the Relativistic Heavy Ion Collider (RHIC) and engineered complex structures and heavy machinery needed for giant particle detectors. His engineering and leadership talents led to his appointment as Section Head of Engineering & Facility Support for the RHIC Detector Group.

Mills was then named project manager of the Plant Engineering Division's Groundwater Protection Upgrades Project, managing several high visibility projects designed to assure BNL operations protect the environment. He was promoted to Supervisor of Engineering & Design, to oversee in-house engineering of BNL's "conventional" infrastructure. His service includes long-time membership of BNL's Lifting Safety Committee and chairmanship of the Traffic Safety Committee.

In addition to having master's degrees in mechanical engineering and civil engineering and bachelor's in marine engineering and in civil engineering, Mills is a professional engineer and a member of several national engineering societies.

## Jon Sandberg



Jon Sandberg is cited for his significant contributions as Chief Electrical Engi-

neer and Research & Development Manager in the Collider Accelerator (C-A) Department. He is responsible for electrical engineering tasks ranging from digital and analog circuitry to high-power systems — tackling the toughest power-supply assignments personally, or by guiding the engineers in his groups.

The work often entails the design, construction, and operation of unique high-voltage, high-current, fast-pulsed power supplies which need to meet exacting scientific standards and thus have minimal design margin. Sandberg has always been a leader in implementing and maintaining safe designs and operations for both the BNL electrical infrastructure and C-A equipment.

Sandberg is recognized for having quickly brought prototype systems to operating status and improving their performance beyond customer expectations. His focus on quality, testing, and safety have greatly contributed to the success of C-A operations, including projects such as the Relativistic Heavy Ion Collider, the NASA Space Radiation Laboratory, and the Spallation Neutron Source.

Sandberg joined the Lab in 1977. He has a Bachelors of Science in Electrical Engineering from the New Jersey Institute of Technology and a Masters of Science in Electrical Engineering from The University of Idaho.

## Andrey Sukhanov



Andrey Sukhanov, a scientific associate I in the Chemistry Department,

is recognized for his outstanding contribution to the PHOBOS experiment at the Relativistic Heavy Ion Collider, from his arrival at BNL in 1998 through 2005.

Following a major redesign of the experiment's readout electronics, Sukhanov almost single-handedly designed and built a cutting-edge data acquisition system from scratch in less than a year. This allowed PHOBOS to start on time and provide unique physics results.

Throughout the course of the experiment, Sukhanov upgraded the data acquisition system with innovative techniques such as lossless data compression using Huffman coding and by adapting a Conduant Corporation disk array for staging data with high bandwidth to allow simultaneous high speed writing and reading. Final data-taking reached the very high rate of more than 500 events per second.

It is very unusual for such a cutting-edge system to be designed, maintained and continuously upgraded by one person. Sukhanov's resourcefulness, drive, and tremendous technical skill provided PHOBOS with a more than 99 percent reliable data acquisition system that led to more than a billion events taken, dozens of papers, and more than 1,000 citations.

## Steelers' Heinz Stadium Buys BNL-Developed Video Screen

Screen also installed at Super Bowl 2005

More than a decade ago, a team of BNL researchers invented a flat-panel video screen technology (see accompanying box). The first prototype was developed under a Technology Maturation Project funded by the Office of Intellectual Property & Sponsored Research with patent licensing revenue. The technology was further developed with funding received by BNL from the U.S. Department of Defense to explore the application of the flat panel video screen for cockpit displays in U.S. Air Force airplanes. BSA patented a number of inventions related to this technology and licensed its patent rights in 1998 to SCRAM

Technologies, Inc., a company based in Dunkirk, Maryland.

SCRAM developed the high-definition, high-contrast, rear-projection screen — now called SCRAMscreen® — and has installed its largest screen ever — 16 feet by 9 feet — at Heinz Stadium, home of the NFL's Pittsburgh Steelers, the winners of this year's Super Bowl.

The SCRAMscreen® Video walls were also built in ALLTEL Stadium in Jacksonville, Florida, home of the NFL's Jacksonville Jaguars and location of last year's Super Bowl. As part of a \$60-million stadium renovation designed to impress the 82,000 fans at the Super Bowl, four 10 1/2-foot by 6-foot and two 3 1/2-

foot by 8-foot SCRAMscreens® were installed at both the stadium's East and West Clubs. The SCRAMscreen®'s no-glare, wide-viewing angles allowed fans unrestricted performance as they moved about the clubs.

This year's Super Bowl was held in Detroit, but, given the use of SCRAMscreens® in Jacksonville, site of last year's Super Bowl, and in Pittsburgh, home of this year's Super Bowl champion, Geri Koehler, Vice President of Operations for SCRAM Technologies, Inc., said, "I'm tempted to tell the rest of the NFL teams that if they don't have a SCRAMscreen®, they're out of luck for the Super Bowl!" — Diane Greenberg

## Flat-Panel Video Screen Inventors

Former BNL researcher James Veligdan was the principal investigator who invented the planar optic display, the precursor to SCRAMscreen®, along with the help of BNL's Cyrus Biscardi, Collider-Accelerator Department; the late Calvin Brewster; and Leonard DeSanto, also former BNL employees.

The technology won awards from two magazines: Popular Science and Discover. The planar optic display was one of 100 technology developments, scientific achievements, and new products that was chosen by the editors of Popular Science for the distinction of "1996 Best of What's New Award." To select the winners, the editors reviewed thousands of inventions. The staff's picks were highlighted in the December 1996 issue of the magazine.

The planar optics display also was named a finalist in the 1997 Discover Awards for Technological Innovation. The device was one of 35 finalists chosen from about 4,000 entries by the Discover editorial staff and named in the July 1997 issue. In addition, former Mayor Rudolph Giuliani honored the five finalists from New York, including Veligdan, at a ceremony in City Hall.

— Diane Greenberg

## EMS, OSH Internal Audits Scheduled, 2/21-24

Know BNL's Environmental, Safety, Security & Health Policy, and how it applies to your work

A successful Integrated Safety Management System (ISM) requires routine auditing. Part of BNL's total commitment to ISM includes the ISO14001 Environmental Management System (EMS) and the OHSAS 18001 Occupational Safety and Health Management System (OSH). Each system requires two audits each year — one conducted in-house, using trained staff, and the second conducted by external parties to confirm our registration to each standard. Since the two systems are similar, a combined internal audit is planned on both systems next week.

The Environment, Safety, Health & Quality Directorate has been working hard to keep the audit impact on employees at a minimum. While not all employees will be interviewed, all are expected to know that BNL has an Environmental, Safety, Security and Health Policy. This policy is posted throughout the Lab and is available on the web at [www.bnl.gov/bnlweb/PDF/ES-SHP.pdf](http://www.bnl.gov/bnlweb/PDF/ES-SHP.pdf).

Also, all employees must be familiar with the environmental, safety, and health aspects and hazards associated with their work, and the conse-

quences that could result from performing work outside of established controls. For more information concerning these programs or the audit, contact: **Environmental Management System:** George Goode, Ext. 4549, [goode@bnl.gov](mailto:goode@bnl.gov); John Selva, Ext. 8611, [selva@bnl.gov](mailto:selva@bnl.gov); your EMS Representative; or your Environmental Compliance Representative.

**Occupational Safety and Health Management System:** Jim Tarpinian, Ext. 8370 or [tarpinian@bnl.gov](mailto:tarpinian@bnl.gov); Pat Williams, Ext. 8211 or [pw@bnl.gov](mailto:pw@bnl.gov); or Bob Selvey, Ext. 3066 or [selvey@bnl.gov](mailto:selvey@bnl.gov).

## Defensive Driving, 3/4

Defensive driving courses will be held on March 4, April 8, and June 10, 9 a.m.-3:30 p.m., in Berkner Hall, open to BNL, BSA and DOE employees, facility-users, other guests, and their families. Send a check for \$30 made out to: NYSTA, care of Don Kelley, P.O. Box 185, Selden, NY 11784. (732-2498) Add your phone number and the class date on the check.

## Milestone at Spallation Neutron Source (cont'd)

accelerator," said SNS Accelerator Systems Division Director Norbert Holtkamp.

The SNS will become the world's leading research facility for study of the structure and dynamics of materials using neutrons. It will operate as a user facility that will enable researchers from the United States and abroad to study the science of materials that forms the basis for

new technologies in telecommunications, manufacturing, transportation, information technology, biotechnology and health.

The \$1.4 billion project is scheduled to be completed in June 2006. The construction has been on time and on budget with a safety record of 4.2 million hours without a lost workday injury.

More information on the SNS is available at [www.sns.gov](http://www.sns.gov).



African Art Exhibit at Berkner Hall



In honor of Black History Month, several members of BERA's African-American Culture Club arranged a display of African artifacts that are on view in Berkner Hall during February. Barbara Simpson (right), Procurement & Property Management Division, who owns many of the art works, led the organization of the display, which was made possible by loans from several other private collectors. Simpson had started collecting African artifacts approximately 25 years ago when attending various Black History cultural events. In the photo are also (from left) Omar Gould, Collider-Accelerator Department; Carmen Narvaez and Abass Wesson, both of the Plant Engineering Division; and Rosa Palmore, Diversity Office. Also on view in Berkner Hall is a display of photographs and information on Black History. Two other related events are listed at right.

Get to Know Your Lab, 2/24 'MBE-CTEM' Tour

Learn about materials science research during the Employee Lunchtime Tour on Friday, February 24, when the group will visit the new labs and hear about the Molecular Beam Epitaxy (MBE) facility, where thin-film high-temp superconductors can be created, and the CTEM, the aberration corrected transmission electron microscope, which can image individual atoms magnified to sub-angstrom levels. The group will meet at noon in the upper lobby of Berkner Hall.

Space is limited. Call Elaine Lowenstein, Ext. 2400, for more information.

LIANS Meeting, 2/22

The Long Island Section of the American Nuclear Society will meet on Wednesday, February 22, at the Brick House Brewery and Restaurant, Patchogue. Vatsal Bhatt of BNL will speak on "Perspective Scenarios for the Deployment of Advanced Nuclear Systems in the U.S. Energy Market." The evening starts at 6 p.m. with complimentary hors d'oeuvres and a cash bar, dinner at 7 p.m., and the talk at 8 p.m. The cost is \$22. Call 344-2606 by 2/21.

Benefits Office Reminder Proof of Student Status

All medical/dental plan participants are reminded to submit an updated proof of student status to the Benefits Office, Bldg. 185, for the upcoming college semester. The Benefits Office will submit this to the insurance company on your behalf. To be eligible for benefits, children over age 19 must be unmarried, a full-time student attending an accredited college or university and primarily supported by you. Dependents who meet this criteria are covered until the end of the year age 23 is attained. For more information, call the Benefits Office, Ext. 2877 or 5126.

Summer Camp Expo

On Friday, March 10, from 11:30 a.m. to 1:30 p.m., in Berkner Hall, several Long Island summer camps will provide facility and registration information to BNLers. For more information, contact Susan Foster, Ext. 2888; or Liz Gilbert, Ext. 2315.

February Is Black History Month

All are invited to join in the following events planned by BNL groups with Black History Month in mind.

Talk, 'Crossing Cultures & Color Lines,' 2/24

All are invited to a talk on "Crossing Cultures & Color Lines," to be given by Sarah Assamagan on Friday, February 24, 12:15-1:15 p.m. in Berkner Hall, Room B. Sponsored by the English for Speakers of Other Languages (ESOL) Program and the Diversity Office, Assamagan will discuss topics such as defining "culture," understanding social differences, the limitations of the term "minority," and how to reduce alienation and conflict.

Assamagan, a volunteer tutor for the BNL ESOL program, has masters' degrees in cultural anthropology and philosophy, and has taught introductory philosophy and Africana studies courses at Suffolk Community College; Warsaw Community College, Virginia; and Rutgers University. At BNL, Assamagan is also the co-founder of the BERA Ago Amé African Drum & Dance Club.

BERA Bus to NYC for Gospel Show, Brunch in Harlem, 2/25

All are invited to join a BERA-sponsored trip, hosted with the African-American Culture Club, to a Gospel Show and buffet-style brunch at the famous Cotton Club in historical Harlem, New York City, on Saturday, February 25. The luxury bus will depart from the Brookhaven Center at 10 a.m and leave New York City at 5:30 p.m. Tickets, at \$38 each, include brunch, tax and tip, Gospel Show, and bus fare, and are available at the BERA Store in Berkner Hall, weekdays, 9 a.m.-3 p.m.

BNL's 2005 UW Campaign Tops Goal \$128,000 Given to 'Lend a Helping Hand' on Long Island

"Thanks to the generosity, support, and volunteerism of BNL employees, retirees, visitors and guests, I am very happy to announce that we have surpassed our goal of \$100,000 for the 2005 United Way Campaign," says Chair Doon Gibbs, Associate Laboratory Director for Basic Energy Sciences (BES).

On behalf of Co-chair Mary Campbell, BES Directorate, the United Way Committee and Captains, Gibbs also thanks all who pledged support, with total donations of \$99,080, as well as those who organized and participated in various fund-raising events.

Among these events, the holiday auction, yard sale, 50/50 raffle, Southwest Airline ticket raffle, and book sales, totaled over \$15,000. The international food tasting made \$617 and the holiday gift-wrapping effort made \$431. In ad-



BNL's United Way Campaign Chair Doon Gibbs (right), and Campaign Co-Chair Mary Campbell (second from right) give the symbolic check for \$128,000 from BNL to United Way of Long Island (UWLI), represented by Michael Cooney and Dorothea Stoelinga, Senior Vice President and Vice President, respectively, of UWLI's Resource Development.

dition, a number of individual departments held local fund-raisers, which combined contributed more than \$2,000. So, including the BSA matching donation of

\$10,000 for volunteer hours and other miscellaneous fund-raising activities, a donation in the amount of \$128,000 was presented to United Way of Long Island.

BNL Wireless Network Name to Change, 2/21

The name, or SSID, of BNL's wireless network will change from "bnlexternal" to "VWZ" as of Tuesday, February 21. The change should be transparent to most users. However, if you experience trouble connecting and are not sure how to change the SSID, go to [www.bnl.gov/cybersecurity/wireless/ssid.asp](http://www.bnl.gov/cybersecurity/wireless/ssid.asp) for a brief tutorial. For additional questions not addressed in the tutorial, BNLers may contact the ITD Service Desk at Ext. 5522.

Blues Concert, 2/25 'The Gathering of the Slides IV'

"The Gathering of the Slides IV," a blues concert featuring the Kerry Kearney Band, the Kane Daily Band, and Dee Harris will be held on Saturday, February 25, at 7:30 p.m. in Berkner Hall. Sponsored by the BNL Music Club, the concert is open to the public. All visitors to the Lab age 16 and over must bring a photo ID.

Back for a fourth year at BNL, the Kerry Kearney Band

musicians bring down the house with their unique, high-energy sound.

Tickets cost \$15 each and may be bought from the BERA Store, from [ticketweb.com](http://ticketweb.com), or at the door. Advance purchase is recommended because "The Gathering of the Slides" concerts have been sold out in the past. For more information about the concert, call Ext. 3846.

St. Patrick's Day Ball, 3/17

The 20-piece "New York's Most Dangerous Big Band" will perform during a St. Patrick's Day Ball at the North Ballroom of the Brookhaven Center on Friday, March 17, 8 p.m.-midnight. Sponsored by the BNL Social & Cultural (S&C) Club, the event is open to the public. All visitors to the Lab age 16 and over must bring a photo ID. Tickets cost \$20 each in advance, or \$35 at the door; they are available at the BERA Store in Berkner Hall or at the BNL S&C Club's dance socials on Friday nights at the Brookhaven Center. Only 160 tickets will be sold. If all are sold out before the event, there will be none at the door. Contact Rudy Alforque, Ext. 4733 or [rudy@bnl.gov](mailto:rudy@bnl.gov) for more information.

Arrivals & Departures

— Arrivals —  
None

— Departures —  
Yongjae Lee ..... CMP & MS  
Nicholas Luciano ..... C-A

BERA Trips in Store!

Get details, buy tickets, at the BERA Store in Berkner Hall, weekdays, 9 a.m.-3 p.m., Ext. 3347.

Sat., 3/11 - Hairspray at Neil Simon Theater, \$60 incl. bus.

Sat., 3/25 - Bill Cosby at Tilles Center, \$45 incl. bus.

Sun., 3/26 - Don Giovanni, NYC Opera, \$80 incl. bus. And more!

Adult swim classes, Weds., 3/1-4/19, 5:30-6:30 p.m. Mail \$80 check to BERA, Rec. Office, Bldg. 179B, (Ext. 2873) by 2/24.

'Kate's Pants,' 3/2

In honor of Women's History Month, Brookhaven Women in Science and the Diversity Office are sponsoring "Kate's Pants," an educational diversity-awareness program about famous women in American history, on Thursday, March 2, at noon in Berkner Hall. Through a "magical" book and 11 layers of clothes, playwright-producer-actor Sandra Hansen becomes Amelia Bloomer, Sojourner Truth, Susan B. Anthony, and others. All are welcome.

CALENDAR

Regular weekly events are on page 2 of The Bulletin, 2/03/06.

— WEEK OF 2/20 —

Monday, 2/20

Presidents' Day Holiday

The Lab will be closed in honor of the Presidents' Day holiday. No Bulletin will be printed on Friday, February 24.

Friday, 2/24

\*Employee Lunchtime Lab Tour

Noon. Meet the group in Berkner Hall lobby to be taken to learn about materials science research at BNL at the Molecular Beam Epitaxy facility and the aberration Corrected Transmission Electron Microscope. Space limited. Elaine Lowenstein, Ext. 2400.

\*Black History Month Talk

12:15-1:15 p.m. Berkner Hall, Room B. Sarah Assamagan will discuss "Crossing Cultures & Color Lines." See notice, left.

Saturday, 2/25

\*BERA Bus to Gospel, Harlem

10 a.m. Brookhaven Center. Bus to Gospel Show and buffet-style lunch at Cotton Club, Harlem. \$38, tickets available at BERA Store. See notice, left.

\*Gathering of the Slides IV Concert

7:30 p.m. Berkner Hall. "The Gathering of the Slides IV." Tickets \$15. See below, left.

— WEEK OF 2/27 —

Monday, 2/27

IBEW Meeting

6 p.m. Centereach Knights of Columbus Hall, 41 Horseblock Rd., Centereach. 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, 2/28

A. Daigger & Co. Demo

11 a.m.-2 p.m., Berkner Hall Lobby. Representatives from A. Daigger & Co. will present BNLers with information on their scientific products and services that may be of interest to technicians in biology, chemistry and medical technology. Paul Belanger, 856-693-1773 or [www.daigger.com](http://www.daigger.com).

Thursday, 3/2

Sam's Club Demo

11 a.m.-2 p.m., Berkner Hall Lobby. Representatives from Sam's Club will have free giveaways and will present BNLers with discounted membership for two people at a cost of only \$40 per year. For more information, contact Kim Neuss, 447-0253.

\*Women's History, 'Kate's Pants'

Noon. Berkner Hall. BWIS and the Diversity Office sponsor an educational diversity-awareness program, called "Kate's Pants," about famous women in American history, to be given by Sandra Hansen. See notice at left.

— WEEK OF 3/6 —

Friday, 3/10

Summer Camp Expo

11:30 a.m.-1:30 p.m. Berkner Hall. Long Island summer camps will provide information about their facilities and programs. For more information, call Liz Gilbert, 2315.

Saturday, 3/11

BERA Trip to Hairspray Show

Tickets available at BERA Store., \$60 includes bus.

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



## 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 benefits-eligible employees within the department/division and/or appropriate bargaining unit, with preference for those within the immediate work group; (2) present benefits-eligible 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. Access current job openings on the World Wide Web at [www.bnl.gov/HR/jobs/](http://www.bnl.gov/HR/jobs/).

#### LABORATORY RECRUITMENT – Opportunities for Laboratory employees.

**TB3725. SR. ADMINISTRATIVE SECRETARY (A-3, reposting)** - Requires an AAS degree in secretarial science or equivalent experience of at least six years that includes at least two years at BNL. Must possess a thorough working knowledge of Laboratory and Department policies and procedures relative to the department, excellent oral and written communication skills, must exercise initiative, good judgment, be a team player and must be proficient processing information using a PC. Responsibilities will include the effective operation and management of the Advanced Nuclear Concepts Group and Social Projects, and provide support to the Division Office, including the coordination and direction of all administrative office practices, policies, and procedures, arranging and processing domestic and foreign travel and maintain group files. Responsibilities will also include interacting with personnel both inside and outside the laboratory to coordinate and plan conferences and meetings both on site and off site in addition to arranging appointments, services, visitor paperwork, general information, preparation of reports and presentations, handle multiple assignments and plan and coordinate priorities. Position may be part time or full-time – to be determined. Energy Sciences & Technology Department.

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

**MK3646. ASSISTANT PHYSICIST (S-1)** – Requires a Ph.D. in experimental con-

densed matter physics or related field and demonstrated ability to initiate independent scientific programs in strongly correlated systems. Experience in x-ray or neutron scattering and strongly correlated systems is highly desirable. Will participate and lead a program in strongly correlated electron systems, particularly using soft x-ray resonant scattering to study electronic order in a variety of geometries, including especially surfaces, interfaces, bulk and nanoscaled systems. Under the direction of J. Hill. Condensed Matter Physics & Materials Science Department.

**MK4025. SR. HUMAN RESOURCES REPRESENTATIVE (A-6)** – Requires a bachelor's degree or equivalent experience, at least four years experience in the recruitment of technical, engineering and information technology staff, excellent oral and written communication skills, knowledge of MS-Word, Outlook and Excel, and experience developing web-based recruitment strategies. Knowledge of PeopleSoft highly desirable as is experience in the diversity/EEO field and knowledge of applicant tracing databases. Responsibilities will include recruiting, interviewing and hiring non-exempt and exempt level employees, working with Laboratory staff to develop recruitment strategies, functioning as an internal consultant to Laboratory employees by providing information, guidance and interpretation of Laboratory policies, practices and procedures. Human Resources & Occupation Medicine Division.

**NS3529. ADVANCED TECHNOLOGY ENGINEER (I-7)** - Requires an advanced degree in computer science, information technology, physics or closely related field and five or more years of experience with facility or infrastructure software development in support of large-scale scientific computing is required. Experience with Linux at the system administration level is also necessary, as are excellent written and oral communication skills. A good knowledge of Java (core libraries, JDBC) and related development tools (cvs/subversion, Java IDEs, ant, and javadoc) is required, as is experience with relational database technologies (MySQL or Oracle). Should have experience with XML and Web Services and with J2EE (servlets/JSPs, JSF, EJBs) and open source products such as (Tomcat, Jboss, Hibernate). Will participate with a geographically distributed team in the design, development, integration and operation of large-scale computing facilities and associated grid software, middleware, and services. Will develop, adapt and deploy newly emerging grid computing modules and technologies to produce a robust and scalable computing grid supporting a large distributed High Energy Physics collaboration. Will furnish facility/grid support in the form of high availability operations, user requirements directed evolution, and high quality documentation. ATLAS Program/Physics Department.

**NS3527. TECHNOLOGY ENGINEER (I-6)** - Requires a bachelor's degree in computer science, information technology, physics

or closely related field and three years of experience with facility or infrastructure software development in support of large scale scientific computing is required, with an advanced degree in computing being highly desirable. Experience with Linux at the system administration level is also necessary, as are excellent written and oral communication skills. A good knowledge of disk IO and file system tuning and optimization is highly desired. A good knowledge of Java, XML, Web Services and script language is required, as is experience with relational database technologies (MySQL, or Oracle). Experience with Grid storage resource managers (SRM) and TCP/IP based high performance data transfer tools would be a strong plus. Will play a major role in the expanding data management and service team supporting a large distributed High Energy Physics collaboration (USATLAS). Will adapt and deploy newly emerging grid-based data storage, management, and distribution technologies providing around-the-clock access service to PetaByte scale data stores. Will furnish facility/grid support in the form of high availability operations, user requirements directed evolution, and high quality documentation. ATLAS Program/Physics Department.

**NS3526. TECHNOLOGY ENGINEER (I-6)** Requires a bachelor's degree in computer science, information technology, physics or closely related field and three years of experience with facility or infrastructure software development in support of large scale scientific computing is required, with an advanced degree in computing being highly desirable. Experience with Linux at the system administration level is also necessary as are excellent written and oral communication skills. Knowledge of security (iptables, TCP wrappers), system/service vulnerability and host level intrusion detection software is highly desired. A good knowledge of Java, XML and Web Services is required. Experience with J2EE (servlets/JSPs, JSF, EJBs) and open source products (Tomcat, Jboss, Hibernate) would all be a plus. Experience with Grid technologies, including Globus Toolkits, VDT, OSG, and/or LCG would be highly desired. Will participate with a geographically distributed team in development, integration and operation of large scale computing facilities and associated grid software, middleware, and services. Will adapt and deploy newly emerging grid computing modules and technologies to produce a robust and scalable computing grid supporting a large distributed High Energy Physics collaboration (USATLAS). Furnish facility/grid support in the form of high availability operations, user requirements directed evolution, and high quality documentation. ATLAS Program/Physics Department.

**NS3528. TECHNOLOGY ENGINEER (I-6)** - Requires a bachelor's degree in computer science, physics or closely related field and at least three years experience in a large scale scientific computing facility. An advanced degree and experience in HEP/

NP computing are highly desirable. Knowledge in information security is essential, including host level and site level security. Experience with LDAP, Radius, Kerberos, PKI, in the context of Grid and web service security are a plus. Extensive knowledge of Linux, including administration and custom kernels is highly desirable. Experience with hierarchical storage managers, robotic tape systems, SAN based RAID storage are also important. Programming experience in C/C++, Java and Perl, particularly in a distributed environment are also desirable. Will participate in the on going design, deployment and operation of both the security infrastructure at the RHIC/ATLAS computing facility and its multi-petabyte scale, high rate data storage system. ATLAS Program/Physics Department.

**NS3530. SENIOR TECHNOLOGY ANALYST (I-5)** - Requires a bachelor's degree, preferably in computer science, or equivalent, plus at least one year's related experience. Successful candidate will have: experience in installing and managing an Apache web server with various modules (on RH Linux); ability to manage authenticated web space, create and edit web pages which are compliant with popular browsers (working both with or without web design tools); and an understanding of cascading style sheets. Candidate must have experience with content management systems and the ability to maintain and code in Perl, PHP, and JavaScript. Familiarity with general databases including MySQL and experience working in a computer facility are very desirable. Examples of website accomplishments will be considered and appreciated. Will take primary responsibility for maintaining computing facility documentation including both the development and maintenance of multiple websites and the assembly, organization and archiving of all facility documentation. Will participate in the integration into the web environment of tools associate with facility monitoring and user community interaction. ATLAS Program/Physics Department.

**NS2900. SR. STAFF SPECIALIST POSITION (A-8)** Requires a bachelor's degree (or advanced degree) in an appropriate field with a minimum of 10 years' related experience in a progressive environment with an increasing level of responsibility. Excellent verbal and written communication skills including technical editing experience is required as is proficiency with Microsoft Office, including Word, Excel and PowerPoint. Ability to convey information in an accessible and actionable manner to all levels of personnel is required, as is extensive relationship development/management experience. Familiarity with Laboratory practices, policies and SBMS programs is strongly preferred. Demonstrated abilities in understanding and implementing customer needs, senior management communication and high-level presentations a must. Experience and ability to adapt quickly and thrive in a proactive, fast paced, multi-tasked changing environment is necessary. Will supervise the SBMS staff

in developing new products and maintaining existing products. Will develop and execute strategic/tactical initiatives to deliver a mission-aligned message for SBMS with BNL and fulfill DOE and BSA contract requirements. Will solicit customer feedback; create and conduct presentations, training, focus groups and facilitation activities and work with QM staff engineers to develop effective marketing for management system plans and assessments. Quality Management Office.

**NS3933. SR. DESIGN ENGINEER** (Design and Drafting Supervisor, T-7) - Requires a bachelor's degree in mechanical engineering or a related discipline (or an AAS degree with additional equivalent experience) and 10 years of relevant experience including a minimum of 4 years as a Design and Drafting Supervisor. Work experience in the design of accelerators and beam lines will be given preference. Candidates must possess a solid knowledge of engineering, design and drafting practices. Comprehensive experience with PC-based 3-D CAD software (PRO-E and/or Inventor) and AutoCAD as well as experience in implementing and maintaining their associated database programs is required. Considerable knowledge of CAD installation related to hardware including plotters, video drivers, RAM allocation, etc. is highly desirable. Responsibilities will include coordinating and supervising all CAD activities for the NSLS-II project including hiring, training and scheduling of designers, acquisition of hardware and software, and management of the CAD database. Will work closely with the mechanical engineering staff to coordinate design engineering support on a wide range of projects including facility design, accelerator systems and beam lines, and electrical schematics. Will monitor and supervise the processing of the cost center expenses and time reporting. Will be responsible for monitoring and evaluating the performance of all designers. Reports to the NSLS-II Mechanical Engineering Group Leader, NSLS-II Project.

**TB2681. ASSISTANT STAFF SPECIALIST (A-4)** – Requires a bachelor's degree in accounting and excellent oral and written communication skills. Proficiency in Excel and other MS Office products required; experience with PeopleSoft financial applications a plus. Responsibilities will include budget development, analysis of cost and commitment and preparation of financial reports for management. Collider-Accelerator Department.

**TB3676. BIOLOGY ASSOCIATE III (P-3, term appointment, part time, 80 percent)** – Requires a BS degree in biology, chemistry or a related field, advanced degree desired, and two years' related experience. Experience with HPLC, chemistry, and biochemistry is desirable. Under general assignment, will work on synthesizing specialty shells for gold nanoparticles for coupling to biomolecules. These particles will then be used to analyze proteins and protein complexes structurally by electron microscopy. Biology Department.

#### American Physical Society Position

**EDITORIAL POSITION, PHYSICAL REVIEW A** - AN ALTERNATIVE SCIENCE CAREER: Physical Review A seeks a dynamic and personable colleague to join its editorial staff in Ridge, New York (near Stony Brook and Brookhaven). Duties will include participation in all aspects of the peer review process by which manuscripts are selected for publication. Candidates should possess a Ph.D. in physics, an excellent command of written and spoken English, and familiarity with research publication. Postdoctoral experience is desirable. Experience in atomic, molecular, and optical physics is useful. No prior editorial experience is required for this entry level position; we train all new editors to develop the necessary skills. As experience is gained, this position will evolve into independent responsibility for a subset of submitted manuscripts. We offer career stability, a competitive salary, and an outstanding benefits package to a qualified individual ready to start a non-traditional career in physics. Send your resume plus cover letter containing salary requirements and timetable of availability to: Joseph Ignacio, Director of Human Resources, American Physical Society, 1 Research Road, Box 9000, Ridge, NY 11961, email: [edresumes@aps.org](mailto:edresumes@aps.org), fax: 631 591 4155. For general information about the APS and its journals, see [www.aps.org](http://www.aps.org). EOE M/F/D/V.

#### Community Involvement

**WALK AMERICA** - BNL Team Captain needed to organize March of Dimes campaign for April or May walks. 516-496-2108.

#### Farewell Gathering

**NAASE, SIEGFRIED** - Join us for dinner on 2/28, 6-10 p.m., Riverhead Polish Hall. \$30pp. RSVP by 2/21. Lynamne, Ext. 7918.

#### More Ads are on the Web

We regret that, due to a lack of space, this week's ads are at <http://intranet.bnl.gov/ads/displayAdsAll.asp>. Please resubmit your ad if you want it to appear in the next Bulletin, 2/27/06.

## Valentine's Day Messages

Buddy, Anyone can catch your eye, but it takes someone special to catch your heart. That is my Buddy.

Dear You, I love you more & more each day. Be my Valentine!! Love you, Me.

I fell in love with you years ago,  
now I love you more  
than you will ever know.  
See you in St. Lucia.

**CHARLES** - To the man of my dreams, But I can't keep track of your hard-hat, gloves or jacket - Alicia Hustle.

Kelly, Casey & Kristen, my reasons! Happy Valentine's Day. I love you all! Daddy.

Lois Lane - You are my Super Hero ... Love Always, Clark.

Mike, Happy V-day. Taim i' ngra leat. Duck.

Ron2shuz - I love you yesterday, today and tomorrow! We are so good and so bad together! Love, Bun XO.

Hey Kiddo: Rose are Red, Violets are Blue. It can't be any better, than Living with you! Love Me.

Sara, Thanks for 33 incredible years. Bill. Budster: although we're apart, we're in each other's heart. Love you always. Gr8 since '98!

D.J. - Weather in stormy or calm seas, sailing through life with you is a breeze. Love, Joseph.

To Clark - You are my Superman. I love you forever . . . Love Lois.

Pretzel Man: The joy of my life, the man of my dreams, the love of my life & the center of my world.

Roses are Red Violets are Blue Sugar is Sweet And so are birds. Our LOVE has No rhyme or reason! Linda.

Bob, I hope the wonderment never ceases. Wow! 49+ years to go, my love. Sue. Happy Valentine's Day to the best "Maa" and "Pa" in the world! Love, Your Grandson, Evan.

BNL stands for Buzz 'N' Linda, We've got stardust!

Fourteen years on the 4th of July, I'm happy I married such a wonderful guy! Lisa.

Joe Accountant & Mom: Let's zipline 2gether somewhere tropical. Love U Both. Your First Mate, DJ.

To our sweet little Booboo! Larry, you are the light and love of our lives! Love always, Mommy & Daddy.



**Tom Lambertson of Central Fabrication Services snapped these "Red Tails in Love," as he calls his photo, on site in late January.**

So glad you are mine. I will always be yours. The first 15 have been wonderful. Always, Jessie.

Dear Reginald, Happy Valentine's Day BB! Your blue eyes and kiss still take my breath away! AML Muffy.

**JUN** - May all the CHIPS fall on US together. Happy Valentine's Day! Love You. SHA.

Dear GuoRen Zhong, Happy Chinese new year to you and Good Luck for your future. George.

To My Honey Bunny, I love you a bushel and a peck and a hug around the neck. Love, Your Honey Bunny.



Sweetness - for you this day and every day - sweetness. with love, your George. To Jennifer - be my Valentine today and forever - Jim Y. You're the Best!!!! Love ... Your Man ... Robert.

My Precious Sweetie, Our life is beautiful. Every day I give thanks for the love we share. Ti amo, Robert.

Jude - I love sharing "laughing Eyes & simple Ways & quiet Nights & gentle Days with you." Love, EAS.

Punkin, there is no instinct like that of the heart. I love you! Will you be my Valetine? xoxo Punkin.

"Andrea, words cannot say how i feel for you. Love Mike."

Goldie- Our friendship has lasted another year, youse still cuter den a bugs ear! Love from F.

Pookie-Boy - You're all I ever desired, even though you're now retired. All my love, You know who.

Doc - if raindrops were kisses, I'd seed you a shower. Endless love, brown-eyed girl.

I love you, You love me, We are happy family...forever!!!

Dearest Jackie: I loved you for so many reasons, both great and small, but most of all, I loved you just because you're you. I miss you, Babe. Love Bruce.

NL, Another year has come and gone and you are still the one. Hope you will be my Valentine. Love BL.

Goofy - Life w/U is a wonderful journey & in the end I wanna B standing at the beginning with U - Olive.

Happy Valentine's Day Weeboo! We love you very much! Papasan, Kiwi, Toshi, Aki, Misty, Bubble, Midor.

Hon: I HOPE you know it's HARDer than ever to COUCH my love as we CAN GO SOFTly down life's road. wm.

Honeybear, I Love You very much. Happy Valentine's Day! Love Always, Babydoll.

Hey Babe, To the beach, let's go to museums, go to disney, but don't tell me how to drive. Luv ya.

Debbie - For my wife of 35 yrs. Please be my Valentine again this year. All My Love, Fred.

OntheWeb,theBulletinislocatedat[www.bnl.gov/bnlweb/pubaf/bulletin.html](http://www.bnl.gov/bnlweb/pubaf/bulletin.html). A calendar listing scientific and technical seminars and lectures is found at [www.bnl.gov/bnlweb/pubaf/calendar.html](http://www.bnl.gov/bnlweb/pubaf/calendar.html).

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