

ROCO to Strengthen Safety, Operations, and Oversight Of Research Areas

Effectively running the many diverse labs across BNL requires the carefully choreographed integration of research, operations, and management to ensure operational effectiveness, worker and public safety, and environmental protection.

The Lab's Research Operations Coordination & Oversight (ROCO) plan, a part of Blueprint, has been designed to help meet this need. Under the leadership of Gerry Stokes, Associate Laboratory Director for Global and Regional Solutions (GARS), ROCO provides the organizational framework across BNL to increase the focus on safe and effective research operations.

"Think about typical scenarios in research organizations with laboratory spaces, such as when lab responsibility transfers from one principal investigator to another or research projects change or evolve over time," Stokes said. "Are effective procedures in place so you know what hazards may be present from earlier researchers or projects? Information may be inconsistent, outdated, or unavailable. One of the benefits ROCO brings is systematic processes to know with certainty which hazards are present, making our research areas safer places to conduct science and decrease the likelihood of hurting ourselves or one another."

According to Stokes, the investigation of the October 2008 well house explosion taught the Lab that there were inconsistencies in coordination and oversight in research and operations. ROCO will reduce vulnerability to similar events by creating a new framework that interfaces research, Facilities and Operations (F&O), and day-to-day operations.

Just as the recently launched Integrated Facility Management (IFM) is designed to ensure that the Lab operates and coordinates mission-ready buildings and infrastructure, ROCO helps oversee the operations, safety, and procedures within each lab and research machine across BNL.

"Think of ROCO as helping operations remain within the safety envelope of a research lab or research machine," Stokes said. "We're systematically looking at all facilities, building on existing safety analysis and existing safety envelopes and on what was started with IFM. We're learning already that 90 percent or more of the activity is done right. We just want to improve our controls as a path toward improving safety and operations."

An instrumental component to ROCO's success is a team of Directorate Chief Operating Of-

ficers (DCOO). In the case of the Nuclear & Particle Physics (NPP) Directorate, the DCOOs work under the Department Chairs. Each DCOO helps line managers with the following: line responsibility for safe operations, work planning and control practices and procedures, internal oversight programs; interface line research with support and financial operations to ensure safe and environmentally responsible operations, and negotiate purchase agreements. The DCOO team members are:

- **Michael Cowell:** Basic Energy Sciences (BES), Environmental & Life Sciences (ELS), and GARS Directorates
- **Diane Hatton:** Photon Sciences Directorate
- **Ed Lessard:** NPP's Collider-Accelerator Department (C-AD)
- **Bob Ernst:** NPP's Physics Department, Instrumentation Division, and Superconducting Magnet Division

Additionally, facility operations are supported by Research Space Managers (RSMs). The ROCO team helped define the role of the RSMs, which is similar to the former building managers; however, the R2A2 of the RSM is integrated with responsibilities that flow out of new Blueprint programs, such as IFM and ROCO.

ROCO includes a new Facility Occupancy Agreement (FOA) program. The FOA helps transfer responsibility for the space from F&O to other organizations, such as research, and details the state of the building and the services that may be delivered to the tenant. As part of the FOA, a complete hazard assessment of the building is conducted, and bounding limits for safe operations will be established. Certain research machines, such as accelerators, comply with alternate DOE orders for hazard assessment and safety envelopes and they will be integrated into the FOA program.

The safety of every employee, visitor, and guest is a major Lab priority, and there are several initiatives underway to drive safety performance. The ROCO team's focus on safety and operational effectiveness is working in coordination with the Environment, Safety & Health Directorate on two other safety-related Blueprint projects: area-based personal protective equipment and facility risk assessments, both of which involve identifying the hazards associated with each lab. The three projects are at varying stages of piloting and final deployment across the Lab.

Learn more about Blueprint at <http://intranet.bnl.gov/blueprint>. — Jim Green



Steven Dierker



Dmitri Kharzeev



Laurence Littenberg

Three BNL Scientists Named AAAS Fellows

The American Association for the Advancement of Science (AAAS) has awarded the distinction of Fellow to Steven Dierker, Laurence Littenberg, and Dmitri Kharzeev, who were among 503 AAAS members to receive this honor for their distinguished efforts toward advancing science or its applications. The new Fellows will be presented with an official certificate and rosette pin on Saturday, February 19, at the 2011 AAAS Annual Meeting in Washington, D.C. The contributions of the three new Fellows are summarized below. For more details, see http://www.bnl.gov/bnlweb/pubaf/pr/PR_display.asp?prID=1220.

— Diane Greenberg and Kendra Snyder

Steven Dierker

"For pioneering the development of novel techniques, forefront studies of superconductors, soft condensed matter, colloids, and polymers, and inspired leadership of the NSLS-II Project."

Dierker is the Associate Laboratory Director for Brookhaven's Photon Sciences Directorate, where he oversees the operation of the National Synchrotron Light Source (NSLS) as well as construction of its successor, the National Synchrotron Light Source II (NSLS-II). NSLS draws, each year, about 2,200 researchers from 400 universities, government labs, and companies to study a wide range of materials,...

See *Dierker* on p. 2

Dmitri Kharzeev

"For distinguished contributions to the field of theoretical nuclear physics, specifically the understanding of relativistic heavy ion physics."

Working with data from heavy ion collisions at BNL's world-class accelerator, the Relativistic Heavy Ion Collider (RHIC), Kharzeev has focused his theoretical research on understanding the properties of quark-gluon plasma, the type of matter that is thought to have existed at the first millionth of a second after the Big Bang. Currently, he is connecting the physics of RHIC to cosmology in his investigation of the role of fundamental...

See *Kharzeev* on p. 2

Laurence Littenberg

"For distinguished contributions to the field of rare K decays."

Littenberg is being recognized for a "needle-in-a-haystack" discovery in 1997 — finding and measuring a very rare decay of a positively charged subatomic particle called a kaon, or K meson. He worked with Douglas Bryman of the University of British Columbia, A.J. Stewart Smith from Princeton University, and a team of 50 collaborators from around the world for a decade, searching through the decays of 1.5 trillion particles, to make the discovery. At an experiment called E787 at Brookhaven's proton accelerator, the...

See *Littenberg* on p. 2

466th Brookhaven Lecture, 2/16

Revolutionary High Temperature Superconducting Magnets

BNL has always been a leader in the world of superconducting magnets, which are essential to the great modern accelerators such as the Relativistic Heavy Ion Collider at BNL, or the Large Hadron Collider at CERN, Switzerland. These magnets are made of material that, cooled to 4 Kelvins (K) (-452° Fahrenheit) become superconducting, that is, lose essentially all resistance to electricity.

For the past decade, however, Lab researchers have been exploring the use of new materials that become superconducting at higher temperatures. These materials can operate at the relatively high temperature of 77 K (-351° F), allowing them to be cooled by cheap, plentiful liquid nitrogen, rather than helium, and can create very high magnetic fields.

Now far in the lead of this area of research, BNL scientists are exploring avenues for high temperature superconducting magnets that are energy efficient and have magnetic fields that are a million times stronger than the Earth's. If successful, these new magnets could potentially revolutionize usage in future accelerators, play a key role in energy efficiency and storage, and make possible new applications such as muon colliders and MRI screening in remote areas.



Ramesh Gupta

To learn more about this exciting research, join Ramesh Gupta of the Superconducting Magnet Division on Wednesday, February 16, as he gives the 466th Brookhaven Lecture on "High Temperature Superconducting Magnets: Revolutionizing Next Generation Accelerators and Other Applications." The public is welcome to attend this free lecture, which will be held in Berkner Hall at 4 p.m. Visitors to the Lab of 16 and over must carry a photo ID. To join the lecturer for dinner at a restaurant off site after the talk, contact Diana Votruba, votruba@bnl.gov or Ext. 5123.

In his talk, Gupta will describe the advantages of high temperature superconductors (HTS) and their applications, as well as some of the challenges they pres-

ent and how they can be overcome. He will describe magnet designs for HTS, and experiments such as finding out whether HTS magnets will operate in the presence of unprecedented heat loads and radiation environments. Gupta and his group have built more than 100 HTS coils and 10 HTS magnets using tens of kilometers of such conductors.

As Gupta will explain, the results of this research and development have been promising, and, as a next step, BNL, as a part of collaboration with its research partners (projects originally funded by DOE), is building the two highest field HTS magnets ever — the first at 20-22 Tesla (T) and the next at 24-30 T.

Gupta joined BNL in 1984... See *Brookhaven Lecture* on p. 2

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Environmental, Safety Audits, 2/14–25 on p. 4

Brookhaven Lecture from p. 1
... He earned his M.Sc. and Ph.D. in physics from the University of Rajasthan, Jaipur, India, with a thesis on improving the design and analysis of superconducting magnets for particle accelerators. He also has an M.S. in accelerator physics from the University of Manitoba, Canada. He has served as an instructor at several U.S. Particle Accelerator Schools and has worked at the Variable Energy Cyclotron Center in Kolkata, India, as well as at Lawrence Berkeley National Laboratory. — Liz Seubert

Dierker from p. 1
...from catalysts, to computer chips, to biological molecules. But to take their research to the next level — to probe even smaller, subtler details of their samples — scientists need more intense, better-focused light. NSLS-II will be the world’s most advanced synchrotron light source, producing x-rays 10,000 times brighter than NSLS.
“There’s a huge sense of excitement within the synchrotron community for the scientific advances that this unique machine will enable,” Dierker said. “I’m honored to be recognized by AAAS for my scientific accomplishments and for my leadership of the NSLS-II project. I’m proud to work alongside the dedicated and talented staff who keep NSLS thriving and who are helping Brookhaven greatly advance photon science research with the NSLS-II project.”

Kharzeev from p. 1
...symmetries in the structure of the universe.
Specifically, Kharzeev is attempting to unravel the mystery of why symmetries are broken: Why is the observable universe made almost solely of matter, and not antimatter? Galaxies violate a physics principle called parity invariance when they spiral, so why does this happen? In heavy ion collisions at RHIC, similar asymmetries can be studied in the emission of positive and negative particles, providing data that may lead to unraveling these puzzles.
“RHIC has provided theoretical physicists like myself with rich wells of data for examining basic questions about the nature of matter,” Kharzeev said. “I am honored that my peers have recognized my work through this fellowship.”

Littenberg from p. 1
...Alternating Gradient Synchrotron (AGS), the scientists discovered the rare mode in which a K meson decays to a pi meson and a neutrino-antineutrino pair — a process with a probability of about one in ten billion. Finding this rare kaon decay sheds new light on the universe’s most elemental forces and most basic building blocks, as explained by the theory known as the Standard Model.
“I feel honored to have received this distinction from the AAAS,” Littenberg said. “The rare kaon decay program at the AGS was one of the most exciting and productive projects in the distinguished history of that accelerator, and I am proud to have played a role in making it a success.”

Story of a Snow Day at BNL

What happens before, during, and after the Lab closes temporarily for severe weather

Snow, snow, ice, and then more snow. For many members of BNL’s Facilities & Operations Directorate (F&O), the winter wonderland that started days before the New Year has required an all-out effort to dig out and preserve our small city.

Brookhaven Lab sits on 5,300 acres and has more than 3,000 employees. There are also guest scientists, some with families, who live on site temporarily while conducting their research, and contractors and construction crews building and delivering supplies on site each day. The Lab also has approximately 350 buildings, 29 miles of paved roads, 12 miles of paved walkways, and many, many parking lots. So when snow covers the site and a snow day is declared, a lot of teamwork is required to clean up and clear every entrance and emergency exit to reopen as quickly as possible.

“Keeping the site open, safe, drivable, walkable, and ‘parkable,’ so scientific research and operations can continue smoothly is a huge undertaking,” explained Assistant Laboratory Director for F&O Lanny Bates.

With the help of a storm-planning team made up of representatives from science and operations directorates across the site, and the National Weather Service (NWS), Bates makes the final recommendation to the Lab Director and DOE Brookhaven Site Office on whether the Laboratory should remain open or close because of a coming storm.

There’s a Storm A-Comin’
In the days before an impending snowstorm makes its way to BNL, Manager Mike Pena and the members of his Office of Emergency Management (OEM) team receive storm updates and gather the storm-planning team for briefings from the NWS. Pena keeps track of major ongoing operations, for example, whether the Relativistic Heavy Ion Collider is running — and compiles a list of essential personnel from each department.

“We help make sure that the people who need to be here are here to preserve the continuity of operations at the Laboratory,” said Pena.

Essential personnel include individual RHIC control room operators, central utilities operators, and the snow clean-up crew. OEM provides the Lab’s police with a unique list of essential personnel for every storm. Those on the list are the only people that the police at the Main Gate can allow on site during a Laboratory closure, delayed opening, or early dismissal.

Making the Call
Of course, every storm is different and weather forecasts become more accurate and reliable as a storm moves closer. Within 24 hours of a severe storm hitting the Lab, the storm-planning team meets for another briefing from the NWS. Then, using the most current information, a core group with members of the Site Re-



Members of BNL’s snow cleanup crew who plowed, shoveled, and salted the Laboratory site in January 2011.

“From advance storm tracking to the final opening of the gates — it is a team effort.”
— Lanny Bates, ALD for Facilities & Operations

sources Division; and the Laboratory Protection Division’s Police, Fire Rescue, and OEM meet with Bates to determine their recommendation for the Laboratory Director and DOE Brookhaven Site Office. A member of the Lab’s Internal Communications Office also attends and prepares an announcement that is distributed via www.bnl.gov, employee e-mail, (631) 344-INFO (4636), and the Everbridge mass notification system. In cases with sufficient uncertainty, the team may finalize a decision by conference call with real time conditions both on and off site in the early hours before the Lab’s normal opening time.

This year, the core group has been trying to decide and announce any closures as early as possible to give BNLees more time to make arrangements for themselves, their families, and their work. Sometimes a decision can be made a day before a closure, but not every time. It depends on the level of uncertainty in the storm track and the time it is expected to affect the area.

Weathering the Storm — Essential Personnel ONLY
As the snow falls, winds howl, and the Lab is closed to all non-essential personnel, Manager of the Site Resources Division Tom Lambertson, who has already planned a clean-up strategy for the site, keeps a small “skeleton crew” plowing and clearing snow at the Lab’s “snowflake” buildings — vital facilities that must continue to operate during the storm: the firehouse, police headquarters, apartment area, and certain facilities within the Collider Accelerator Department. Crews identify these buildings by a large paper snowflake sign placed in a front window or door.

“It’s business as usual for the Police and Fire Rescue Groups, only the conditions are more extreme,” explained John Amabile, Manager of the Laboratory Protection Division.

Before, during, and after a storm and site clean up, the members of Amabile’s group continue patrolling the site, inspecting fire suppression systems, and remaining on call to respond

to emergencies. Members of the Police Group also report on the conditions of nearby roads on and off site, while OEM monitors school closures and local towns and county responses to the storm as well.

Now Calling The Clean-Up Crew
The full snow clean-up crew is made up of almost 75 people and an outside contractor who work together to follow the plan and clear the site. They work 16-hour shifts — as much as is allowed — plowing, salting, and shoveling BNL’s many miles of roads and sidewalks, parking lots, and building entrances. If conditions are still treacherous, some members do not go home between shifts, but instead, rest in BNL’s on-site housing provided by Catherine Ennis and the Staff Services team before going back out for another shift.

With pressure to reopen the Laboratory as quickly and safely as possible, Lambertson does not send out the crew until the snow almost completely stops falling and winds die down. He also has to determine what time non-essential personnel will be told that they can re-enter the Lab.

“This is a big job and a tough environment,” said Lambertson. “If I send crews out before the storm is over, we’ll have to clean the same places multiple times, and things that can go wrong usually do.”

Cold metal and pavement is a tough combination, Lambertson explained, and plows, chains, and other equipment break more easily. Luckily, the Lab’s heavy equipment mechanic/operators fix their own equipment right here on site. Crews also wear personal protective equipment that will keep them warm and safe.

Working against the clock to clean the site as safely as possible, crews do not follow all the rules of the road. Non-essential personnel cannot be on site until the announced reopening time because during a cleanup, plow operators do not stop at stop signs; they use a technique called “gang plowing” to clear the entire width of a road at the same time (so they are technically driving in the wrong



After a storm, icy conditions abound outside Bldg. 535 at 5:55 a.m. on Wednesday, February 2.

direction on one side of the road); and they clear sidewalks using Kubotas and other heavy, drivable equipment. Each additional car or pedestrian in the way of a plow is an obstacle — a safety hazard and time lost.

Reopening BNL’s Doors
For many, returning to BNL after a snow day or delayed opening includes crawling in traffic along William Floyd Parkway waiting to re-enter the site. The Main and North Gates do not open for the more than two thousand non-essential BNLees to return until the clock strikes the announced reopening time. If a bottleneck forms at the Main Gate, it is sometimes caused by employees who arrive and line up before opening time. Or, too many people arrive at the same time. More recent reopening announcements request that supervisors allow their employees the opportunity to enter the site, drive, park, and walk to their office safely after the official opening time to ensure that everyone returns to work safely with minimal difficulty.

“The storm-response process that has been developed by our team is a significant step forward in the quality of operations at the Laboratory,” commented Bates. “The snowfall in January this year was a record for Long Island. I am proud of everyone who has played a role in all the various steps, from advance storm tracking to the final opening of the gates — it is a team effort.”

After a clean-up operation is complete, the teams involved welcome feedback from the Lab community to improve the process. This year, they have received a number of compliments from BNLees who appreciate the tremendous amount of effort required to coordinate, communicate, and clean up the snow. The fervent hope among many BNLees now is that F&O will soon be done with clearing snowstorms for this year. — Joe Gettler



Michael Herbert 0054011

J.R. 00210211



Joseph Rubino D0450111

Participants in CSTEP with Lab mentors and Assistant Laboratory Director for Community, Education, Government & Public Affairs Marge Lynch (front, fourth from right) and DOE Deputy Brookhaven Site Manager Maria Dikeakos (front, third from right).

One Step, Two Step, CSTEP

Collegiate Science, Technology, and Engineering Students Visit BNL

Once again, Brookhaven scientists captured the imagination and sparked enthusiasm of New York State college students by sharing research and technology during the annual Collegiate Science and Technology Entry Program (CSTEP) mini-course.

Underrepresented and economically disadvantaged students from 14 New York State colleges and universities spent the week of January 10-14 viewing “science in action” and gaining hands-on experience with Brookhaven scientists. The program, led by Educational Programs Administrator Catherine Osiecki, is a stepping stone toward applying for DOE summer research programs.

Students, college counselors, and BNL mentors were welcomed by Assistant Laboratory Director for Community, Education, Government and Public Affairs Marge Lynch and DOE Deputy Site Manager Maria Dikeakos.

“It’s wonderful to feel the enthusiasm in this room,” said Lynch. “We hope that your stay here will contribute to your passion for science and we hope to see you back at BNL as interns.”

Dikeakos added, “This is where scientists from around the world gather and collaborate. We look forward to working with young scientists like you to help you transform your great ideas into reality.”

Fordham University CSTEP

counselor Danielle Torres recognized that programs like CSTEP are a valuable resource.

“The Lab provides a unique opportunity to help our underrepresented students get on the road to success,” Torres said.

While at the Lab, students visited the National Synchrotron Light Source, the Laser Electron Accelerator Facility, the STAR Detector at the Relativistic Heavy Ion Collider, the Center for Functional Nanomaterials, and the NASA Space Radiation Laboratory. They participated in hands-on workshops and listened to lectures on many topics, including x-ray crystallography, alternative energy, and the development of gamma-ray imaging.

Michelle Llanos, a freshman in the civil engineering program at Hofstra University, said she was the only girl in her high school physics class. “I wish more women would consider science and engineering careers,” she said. “I know women would consider it if they visited Brookhaven Lab. This week was awesome.”

A winter snowstorm canceled the students’ visit to biology labs and the magnet factory. But the storm did not seem to impact their enthusiasm.

Aaron Conway, a biology/pre-med student from Onondaga Community College, commented, “The amount of knowledge here is amazing. In high school

I would have welcomed a snow day, but here I feel that we missed out on seeing some great science. I especially enjoyed learning about the research done using beamlines at the light source. I’m ready to fill out my application for the summer research program!”

According to Norman Sewell, an electronic engineering student at the State University of New York at Farmingdale, he first got interested in wiring circuits and motor controls while attending Transit Technology High School in New York City. “My professor mentioned this program to me about an hour before the informational meeting was planned at my college, and I got accepted at the last minute. I believe it was meant for me to come here and see what my future career may look like,” said Sewell.

As Kenneth White, Manager of BNL’s Office of Educational Programs, concluded, “This program fosters the relationship between BNL and New York State Colleges and Universities to promote science, technology, and mathematics.

“Of great importance is the participation of the BNL mentors,” continued White. “Their willingness to teach, share knowledge, and motivate students toward a career in science or engineering is the core reason for the continued success of educational programs at the Laboratory.” — Jane Koropsak

RHIC Findings Featured on the Daily Planet

Last year, a crew from Discovery Channel Canada’s “Daily Planet” visited Brookhaven Lab to cover the latest findings from RHIC. The segment — which features PHENIX spokesperson Barbara Jacak, STAR’s Jamie Dunlop, BNL nuclear theory group leader Dmitri Kharzeev, and stunning shots of RHIC — aired in Canada last month. You can view it online at <http://watch.discoverychannel.ca/clip413058#clip413058>.

Donations Needed To Support Troops

The AdoptaPlatoon team in the Brookhaven Veterans Association (BVA) is collecting hot chocolate, peanut butter and jelly (in plastic containers only), and instant drinks in individual stick packets, for the Lab’s adopted platoon. Drop off gifts in boxes located at Bldg. 490, Clinic; Bldg. 400, lobby; Bldg. 488, lobby; and Bldg. 510, Library.

Please send monetary donations to: BVA, memo: “troops” P.O.Box 671, Upton, NY 11973.

Buy Daffodils, Benefit Cancer Research

BERA will again sell daffodils to benefit the American Cancer Society. Make a \$10 donation and receive a bouquet of 10 fresh cut daffodils. Prepay at the BERA Store, weekdays 9 a.m. – 3 p.m. Collect the flowers during the week of March 14.

Classified Ads from p. 4

Wanted
DONATIONS, NEW – BOOKS for children & teens, new makeup and gently used fancy accessories for Prom Program, Only Dresses sz 14 & over, & CLEANED. Must have by 2/28/ Christine, Ext. 5090.
MAGIC CARDS – “Magic the gathering” playing cards. Ext. 4797/ lvogt@bnl.gov.
ONE BEDROOM APT – Sect 8 housing, within 10-15 min. of Lab. 475-3527.
OLD SNEAKERS – To be recycled by my niece’s classroom at the Ross School, goal is 500 pr. I will pick up from you. Thanks. Colleen, Ext. 4919.
POTTING SOIL & CONTAINERS – Same size pots for school sci experiment. Nina, Ext. 5894 or nriviera@bnl.gov.
STATION CAR – for commuting college student. Reliable, gd mechanical condition. Betty, Ext. 3562 or belder@bnl.gov.
USED CAR – Starter car for my son to get to work & school, mechanically gd, body respectable. Ext. 5288, 487-5717.

Lost & Found
LOST: DVD MOVIE – Titled “Alamar” public library loaner. Please call if found. Sheryl, 344-3325 or careysheryl@yahoo.com.

For Rent
CENTER MORICHES – Waterview, 1 bdrm apt, sing occup, no smkg/pets, new carpetg, kit appli, bath; elect, heat, water & wireless int incl, \$1,050/mo. 834-0047.
EAST ISLIP – 1200 sq ft, 2 bdrm, l/r, d/r, kit, bath, sep ent, incl heat/hot water, sep elec/gas. \$1,300/mo. 516-903-2013.
MASTIC – furn, 1 bdrm, attach/priv/full bath, hi spd int, tv, share kit or m/w util incl, nr LIRR, shop, no smkg/pets, 1 mo sec, \$800/mo; 335-4907.
MASTIC – 1 bdrm, kit l/r combo, full bath, priv ent, quiet, own ther/stat, util incl, nr LIRR, no smkg/pets, walk to shop, 8 min to Lab 1 mo sec. \$725/mo neg. 335-4907.
MASTIC – 1 bdrm apt, incl all, 1 mo sec, no smkg/pets. \$1,000/mo. 255-5374.
MIDDLE ISLAND – priv 1 bdrm loft w/ amenities, d/w, cable, int, heat/elect all incl, 3 mi from Lab. \$1,400/mo. Jim, Ext. 2765 or newburgh@bnl.gov.
PORT JEFF – Contemp. Victorian. Walk to shops, school, harbor. Grt rm w/fpl, 4BR, 2ba, EIK, hot tub, IGP, CAC, lease. Utils not incl. \$2,750/mo. 804-4662.
PORT JEFF STA. – avail 3/1, 3bdrm apt, nr SBU & Hosp, priv yd/ent/deck, w/d hook-up, gar, Conseqwogue SD, 1st, last & credit chck, util not incl. \$1,550/mo. 846-1666.
RIDGE – spacious 1 bdrm, bath, 7 min to Lab, pvt ent/drwy, all util incl, l/r, eik, w/d, tile/new carpet, fresh paint. \$1,100/mo neg. 236-9114 or mcjrbj@yahoo.com.
SHIRLEY – 2 bdrm house 1 bth small l/r, kitch. quiet block.Nr all.10 min to Lab.All updated, pets ok. \$1,450/mo. + utilities, 294-2399 or michelehugues@yahoo.com.

BNL Blood Drive, 2/23

Snowstorms Create Blood Emergency

Snow cancellations have caused the loss of 8,000 donations of blood in the recent weeks of stormy weather. The New York Blood Center has declared a blood emergency: Supplies of several blood types are below minimum levels — donations are urgently needed.

The next BNL Blood Drive will be held from 9:30 a.m.-3 p.m. in the Brookhaven Center on Wednesday, February 23. If you can donate, please do, and try and bring a friend who may not have given blood before. Donors must be 17 to 75 years of age, in good health, weigh over 110 lbs, and have a photo ID. Restrictions may apply to some from the UK and Europe.

To make an appointment, log on to the Human Resources webpage, click on “Blood Drive,” then “Schedule an Appointment.” Or, call Liz Gilbert, Ext. 2315. Thank you.

BERA Recreation Programs for Children

Applications for BERA’s recreation programs for children this spring and summer are now online at www.bnl.gov/bera and also available at the Gym office, BERA Store, & Rec Hall.

BERA Spring Break Recreation Program: April 18–22 for children ages 6 to 11. Applications and payments are due by 4 p.m. on March 4.

BERA Summer Recreation Program: July 6–August 26 for children of 5 to 13. Applications and deposits are due by March 25.

BERA Recreation Swim Program: July 11–August 26. Applications and payments are due by June 3.

Camp Informational Meeting: Monday, February 28 at noon in Berkner Hall, Room C

Camp Expo: Thursday, March 10, in Berkner Hall lobby

Arrivals & Departures

– Arrivals –	
Yosra Badiei.....	Chemistry
Pratik Dholabhai	Chemistry
Anna Goldberg	C-AD
Tejaswini Kale	CFN
Yichen Li	Physics
Andrew Mc Mahon	Env. Scis.
Michael Mitrovski	Physics
Sushant Sharma	Comp. Sci.
Mina Talai	Mod. Project Office3
Paul Wilson Jr.	Biology
– Departures –	
Young-Sig Kwak	Biology

Adult Swim Classes

BERA is offering swim classes for adults on Wednesday evenings from March 2 until April 20. This class will be held from 5:30 until 6:30 p.m., costs \$80, and is open to all employees, those with visitors/guest appointments, users, retirees, and their immediate family members who are at least 18 years old. Register by February 25. For more information, call Sue Dwyer at Ext. 3496 or the Recreation Office at Ext. 2873.

CALENDAR

– WEEK OF 2/14 –

Wednesday, 2/16

***466th Brookhaven Lecture**
4 p.m. Berkner Hall. Ramesh Gupta, Superconducting Magnet Division, will talk on “High Temperature Superconducting Magnets: Revolutionizing Next Generation Accelerators and Other Applications.” All are welcome to this free event, open to the public. Visitors to the Lab of 16 and older must carry a photo ID. See p.1.

Thursday, 2/17

Workshop, ‘Real Estate Today’
Noon. Berkner Hall, Room B. Brown bag workshop sponsored by BNL and the Foundation for Personal Financial Education. All are welcome. Please RSVP to Ext. 7516.

WEEK OF 2/21

Monday, 2/21

Presidents Day Holiday
The Lab will be closed for the holiday. No Bulletin will be issued on Friday, 2/25.

Wednesday, 2/23

***BNL Blood Drive**
9:30 a.m.-3 p.m. Brookhaven Center. Your gift of blood is greatly needed. See below, left.

– WEEK OF 2/28 –

Monday, 2/28

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.

Wednesday, 3/2

Smoking Cessation
Noon-1 p.m. Berkner Hall, Room B. Jude Treder-Wolff, certified group psychotherapist, will talk on resources available to smokers who wish to cease smoking. Free. Pre-registration required: Contact Michael Thorn, Ext. 5612, mthorn@bnl.gov.

BSA Noon Recital
Noon. Berkner Hall. Sponsored by BSA, prize-winning cellist Dmitry Kouzov will give a free concert, open to the public. Visitors to the Lab of 16 and older must carry a photo ID.

Friday, 3/4

BSA Distinguished Lecture
4 p.m. Berkner Hall. Xiaoliang Sunney Xie, the Mallinckrodt Professor of Chemistry & Chemical Biology, Harvard University, will speak on “Life at the Single Molecule Level.” The talk is free and open to the public. Visitors to the Lab of 16 and older must carry a photo ID.

SHIRLEY – main floor, 1 BR apt, pvt ent, lr/kit combo, granite, new appl, full ba, hdwd flrs, off str pkg, no smkg/pets, single, cred. chck, 1 mo sec, \$1,000/mo. incl all. 848-6353.

SHIRLEY – lrg 1 br bsmt apt., suitable for one, close to beaches/parks/freeways/ lirr/lab, all included. 1 month + 2 months . \$750/mo. Ext. 3846.

SHOREHAM – share a house w/professional, lg furn bdrm, cable TV, int, no smkg/pets, 8 mi to Lab, avail. \$650/mo. 516-380-2650/gg19582003@gmail.com.

For Sale
MANORVILLE – Silver Ponds best priced Brookwood Ranch, cac, 2brm, 2 full baths, lr/dr, new wd flrs, w/w carpet bdrms, new kit cab, 2 car gar, nr. Lab, open house Sun 2/13, 12:30-2:30. 804-6262.

MANORVILLE – 1 acre, Col. 3 bdrm, 2 1/2 bath, updated kit, stone tile flrs, Anderson windws, deck, priv. yard, koi pond, 2 car gar, wood stove, Eastport/So Manor SD. \$450,000 neg. 909-1102.

In Appreciation
We wish to thank all friends and co-workers at BNL for their kind and supportive words on the passing of my mother.
— The Saitta Family

Cafeteria Services
Special Valentine’s Celebration menu for today, 2/11, with free chocolate-dipped strawberry for each customer and a complimentary carnation.

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/.

To apply for a position, go to www.bnl.gov. Select "Job Opportunities," then "Search Job List."

LABORATORY RECRUITMENT - Opportunities for Laboratory employees only.

UNION SAFETY REPRESENTATIVE (USR) - Grade: 10 - A qualified candidate is sought to fulfill the position of Union Safety Representative (USR). This person will be responsible for: coaching Union workers on safe work practices and behaviors; conducting field visits with Union personnel to identify potential safety issues and concerns; working directly with Union personnel to maintain and increase their participation and contributions to the safety program; and preparing and reporting safety observations and activities. The USR will also participate in various safety initiatives, programs, and policy and procedure development as requested by the Lab; assist in the development of appropriate safety toolbox topics; and conduct toolbox presentations as assigned. Additionally, the USR will champion Human Performance Improvement (HPI) principles in work planning, work observations, accident/incident investigations, causal analyses, and corrective actions. Qualifications for this position include: 30-hours of OSHA training, at least five years of experience in multiple craft work at the Laboratory, and demonstrated success in performing worker-planned-work at the Lab. Must be capable of completing HPI advocate and appropriate Environment, Safety, and Health (ES&H) training. In addition, may be required to complete the N.Y.S. Worker's Compensation Navigator Training. Must be able to document, articulate, and present the results of field observations, and be familiar with the safety requirements for the work being observed. Needs to be physically capable of climbing ladders and scaffolds; lifting up to 30 pounds; working in construction area, elevated areas, and confined spaces; and wearing appropriate Personal Protective Equipment (e.g., respirators). The employee will not be eligible for overtime in the department/area the employee comes from. Please apply to Job ID # 15624.

Motor Vehicles & Supplies

09 TOYOTA CAMRY LE - 31K mi. new tires, 4-cyl, gd cond. \$14,000 neg. Ext. 2221, 775-6171 or kwakgnu@gmail.com.
09 LEXUS RX 350 - 9.7K mi. mint, lthr, V6 3.5 ltr eng, a/t 5-sp, Nav Sys, m/roof, heatd seats. \$36,000 neg. Laura, Ext. 7278.
09 HYUNDAI ELANTRA TOURING - 14K mi. 4dr hb, 4cyl, a/t, awd, all pwr, 32pg, tow pkg, r/rck, 3.5yr warr. \$14,250 neg. 331-7048.
04 TOYOTA MATRIX XR - 99K mi. silver, 4dr hatch, 4cyl, a/t, awd, all pwr, pwr m/roof, rec tires&batt, \$7,800 neg. 331-7048.
04 HONDA ACCORD EX - 106K mi. 4 cyl. c/c. 4 dr. a/t. rec tires&batt, am/fm,cd. abs. a/c. p/l. p/s. p/w. \$9,275 neg. Ext. 2197.
00 HONDA ACCORD EX - 135K mi. 2dr coupe, V6, ltr, s/m roof, cc, Bose cd/stereo, a/c, p/s, air intake, \$5,100 neg. 681-8840.
00 CHEVY CAVALIER - 130K mi. 2.2L, 4 dr, abs, a/c, rdio, CD. \$1,100 neg. 515-451-5291.
99 TOYOTA COROLLA VE - 86K mi. 4dr sedan, auto trans, white, good cond. \$3,450 neg. Ext. 3175 or lrong@bnl.gov.
98 HONDA CIVIC DX - 135K mi. Great Shape, New Clutch 31 MPG. 1 Previous Owner. \$3,000 neg. Warlyn, Ext. 3633.
FORD F150 PICK PLOW - used once, top of the line, Western new/\$5000, ask/\$2500. Ken, 775-6003.
RIMS W/TIRES - 4 18" RT6 Enkei 360 Perf Rims; 6 Lug; excel cond, under yr old, ask/\$700, pd/\$1,800, pics avail. 813-6583.
TIRES - 4 Michelin, 19k mi, lots of tread left P225/70 R18 AS, \$25/ea, \$50/set. Dennis, Ext. 4028, 375-8519.
TRUCK CAP - 8' fiberglass, excel cond, silver ask/\$300. BOB, 767-1944.
WHEELS/TIRES/HUBCAPS - Bridge-stone P205/55R16 from '08 Civic LX, <100mi, \$200/set of 4. jadams@bnl.gov.

Furnishings & Appliances

COMPUTER CHAIR - Very basic. New in box. Needs assembly. \$10. Ext. 3485.
DINING ROOM SET - Like new, 4 chairs, call for details, \$250. 384-0989.

FIREPLACE TOOL SET - Rack, Blck w/gold accent. Vg cond. \$25. sbronson@bnl.gov.

IKEA - LACK TV bench: \$25, blk brn W 58 5/8" D 21 5/8" H 13 3/4"; Bar stools: 4/\$20, blk brn, 24"h, 14"w, pics. Ext. 3044.

LIVING ROOM SET - couch (flower print), matching love seat; 2 club chairs (beige). Like new!! \$600. Jody, Ext. 2976.

SERTA PEDIC MATTRESS - full sz w/box spring, barely used, grt cond, pics avail, \$150/neg. Ext. 2711 or mchuc@bnl.gov.

TV STAND - solid oak, fr. Ashley Furn, up to 50" scrn, 27"Hx18"Dx50"W w/4 drs, pics avail, \$150. Ext. 2017/bkosciuk@bnl.gov.

Audio, Video & Computers

CAMERA - Nikon S3000, 12mp, 4x opt zoom, brand, new in box, x-mas gift, \$90. Rich, Ext. 7294 or gambella@bnl.gov.

DELL AXIM 30 - w/sync and all accessories & instructions/\$50. Anita, 874-3606 or anita22@optonline.net.

DIGITAL CAMERA - Canon Rebel XT, 8MP SLR w/18-55mm zoom lens, incl batt, mem, cables, s/ware, \$200. Ext. 2017.

Sports, Hobbies & Pets

G.I. JOEs - Authentic, excel cond, 1964-73; some w/tags; access also avail, Sue, Ext. 4931, 775-8160 or signorel@bnl.gov.

GUITAR STAND - v/gd/cond, holds 3 guitars, \$25. Also cable for amplifier, Seismic Audio mdl FS-50, new, \$20. Ext. 7114.

ROCKMAN GUITAR EFFECT - Orig.R/ man Stereo Chorus/Delay elec. guitar effect & rack, works well.\$150.00. Ext. 8611.

SKATEBOARD - complete MiniLogo deck, 8.5" w, blk deck, Indy trucks, like new, ask/\$30. Scott, sbronson@bnl.gov.

UNIVERSAL GYM WEIDER - Club Weider 16.6 ST, Univ gym w/4 training stations. Donald, Ext. 2238 or dmackay@bnl.gov.

WETSUIT - Quicksilver Spring Suit, lg, Model-Syncro, 2mm, hyperstretch, worn 2ce, like new, ask/\$30. sbronson@bnl.gov.

Tools, House & Garden

AFGHANS - new, handmd, blue & brown w/ruffle 52" sq; wht, blk, red, 46" sq. \$30/ea. Pillowcase dolls \$40/ea. Ext. 7114.

BAKER/SERVER - New. 3 white ceramic trays: freezer, oven, d/w, & m/w safe, w/ metal frame. Pics avail. \$20. Ext. 2899.

SHOP VAC - New in Box. \$30 firm. Susan P., Ext. 5864.

VARIOUS TOOLS ASSORTMENT - incl table saw and some hand tools. Mary, 205-0127 or MerryMaryToo@msn.com.

WOOD BURNING FIREPLACE - Heatilator Mdl EC39, w/glass dr/screens/piping, & install instruc, \$500/obo. 404-8109.

Miscellaneous

ANIMAL CAGE - 28"x25"x43" Like new \$20. Ext. 3846.

JEWELRY - handmade, unique, great gifts! earrings/pins \$5/ea; necklaces, \$10/ea. Photo frame in box. \$5. Ext. 7114.

Yard & Garage Sales

MT. SINAI - Barn Sale: Sun, 2/13. 10a-3p. 52 Mt Sinai Av. Clothes (\$5/bag), jewelry, h/hold, applis, electronics, linens, toys, books, records, more. 744-8632.

Happenings

FUND RAISER - Pancake B/fast & Chinese Auct'n, Sun, 3/6, 8-12, for memorial "Ronnie Reisig Scholarship Fund" at Camp Pa-Qua-Tuck, Mtk Hwy, C.Moriches, Special Needs Summer Camp for Children w/Disabilities. \$5 adult, \$4 seniors, \$3 under 10. Buy at door or in adv. at 678-2457.

SINGING VALENTINES - charitable contrib of \$75 incls 2 love songs, silk rose, sm box chocs and personalized card songs by barbershop quartets. 589-5555.

Free

AM/FM RADIO CD CHANGER - JVC AM/FM Radio, 5 slot CD Changer, has minor problems w/CD Changer. 949-4046.

DISH WASHER - portable. Donald, Ext. 2238.

SPIRITUAL HEALING - Do you feel as if something is missing in your life or things don't make sense? Regain focus by sending me an email. 848-8958.

Wanted

2 KNICKS TICKETS - for BERA trip on March 23. Qin, Ext. 2641.

CALCULATOR - TI-84, for student. Michael, Ext. 1388.

CALCULUS 2 TUTOR - for Mon/Wed eve. spring sem. classes, helpful to meet during 12noon lch hr. William, wflietiz@bnl.gov.

CLOTHING URGENTLY NEEDED - House Fire last w/end caused family to be without clothing, \$\$\$. To donate: Rita.Reagan-Redko@stonybrook.edu; (631) 632-1057.

DOG CRATE - need Med sz, plastic, min. 28" long x 20.5" wide x 21.5" high. Tony, Ext. 6153, 591-3230 or arno@bnl.gov.

DONATION OF BASKETS - all shapes, sizes, in gd cond for a SWR Jr Class Auction. Thanks! Patricia, Ext. 4628, 744-2095.

DONATIONS OF DOG/CAT FOOD - collection bins are Bldgs. 134, 400, 725, 510 (x5864) 901, 902. For pets of struggling local families and Kent Animal Shelter. Ext. 3161 or kratto@bnl.gov.

See Classified Ads on p.3

Valentine's Day Notes

Dear You, I really do miss you and I hope you know how much. Can't wait to see you. Love You, Me
Dear Mike, "Only You" 40 years ago and "Only You" today. Happy Anniversary! All my love always, Eileen

To My Valentine - What A Long Strange Trip It's Been - One off to college soon and one to go! Happy Valentine's Day! P.S. I'll be looking for the Valentine you sent me.

To my four dodos - My love and appreciation for you grows stronger every day! ah me!

Rose Are Red, Violets Are Blue. What a lucky guy I am, To have Jason and You.

Message: Happy Valentine's Day to my three little bears, Sarah, Paige & AJ. Mommy loves you all XOXOXO!

Happy Valentine's Day to my Papperschnappy. Forever yours, Mappy

RAB: You are the love of my life, soul mate, best friend. We are truly blessed! Love forever, your Bride oooxxx!

PPYNE - 40 Valentine's Days together and still counting! Looking forward to many more. Only you! Love always - ME.

My Ron2shuz, I love thee to the depth and breadth and height my soul can reach. It's wonderful having you so close to my heart every day! Your Bun

Hon - I love you with all my remaining parts with a passion that needs at least two hearts - wm

Frank when I first saw you, you took my breath away. When we first kissed, you stole my heart. Happy Valentines! Love your Buddy

My Associate - You are my fondest dream. Listen to my whispers. Ti amo.

Chrisy, You will always be my (High School) Sweetheart. Love ya, TAM

Charlotte, Happy Valentine's Day to you and the bundle of joy you're carrying. Love, Jim and Alex

Adam, I love you more than words can say! Happy Valentine's Day! Love, Steph

Dearest Umma! Happy Valentine's Day! Love, Wawa and your 3 boys.

Dear Kayla & Charlie - Our love for you is over the moon and wrapped around your hearts! Love Mommy & Daddy

To C: Meeting you was fate. Becoming your friend was a choice, But falling in love with you...I had no choice. Happy Valentine Day! The King

Dearest Squonk, your love lifts me up, carries me through hard times, and throws me for a loop! I dig you!

JUN - Happy Valentine's Day! You are One In A Million and I Love You. Love - SHA

Kelly & the Girls. Happy Valentine's Day to my beautiful wife and best friend, and my two princesses (really!). I love you guys with all of my heart! - Daddy

It was not into my ear you whispered, but into my heart. It was not my lips you kissed, but my soul. 1/20/2008

I love you daddy...Happy Valentine's Day, Love JT

Dear Larry and Carrie, Happy Valentine's Day to our 2 little g-loses!! All our Love, Mommy and Daddy S.D. Oh, the fun we have, places we've been, and places we'll go. Sail to forever with me, my darling. Love always, Captain

Get away from my door, dang nab it. Go out and blow the stink off of you. I have been BBE. Always, Me

Mike, My hero, my love. You do so much for all of us without asking for anything in return. Thank you for your love, help, patience and understanding. Happy Valentine's day to the best Valentine Ever! Love J

Rich - You're The Best! Love you always, Maria

Jeff - Love you lots - always will! Jess

Tony - You are my sunshine and will always be my valentine. Happy Valentine's Day Sweetie. I Love you. Kim

Yep, you found it, this is yours. Wanna dance, or play volleyball? A or B? Love, I think I'm King of the Castle

To my wife (Virgo) - I love and cherish you every minute of the day. My heart is yours for eternity. Be my Valentine 2011! Love Aquarius

J+N are my two loves, -w

Doris: When I'm with you, you're still the beautiful young girl I chose to marry forty one years ago. Happy Anniversary!

Sweetie, Our life is beautiful and each day with you a gift to cherish. I love you. Bob

To L: From that very first kiss, when you stole my heart, I'm looking forward to being with you, till death do us part. Love, D

Sweetie, My love for you grows stronger every day. Happy Valentine's Day. Love, Sweetie

Handsome - you make me smile like the sun. I enjoy every moment we spend together - Happy 1st Valentine's Day! - Gorgeous

HONEY, Thanks for all you do for us, your love and patience. How excited we are going to spend our 14th anniversary in a special place, and when we are 95! Your boar

Chrispy, from waitress to brewer, from California to New York, from then until now, forever, I love you. - Ziggy

Dearest JP, You are the apple of my eye. Happy Valentine's Day. Hugs and sweet sweet kisses. Anonymous

JoJo - You got an A+ for saying you would throw someone out the front door... and for cooking with me! Happy Valentine's Day. Love you always. - JD

JAS: I love spending simple ways and quiet nights and gentle days with you. Love EAS

The Bulletin greatly regrets omitting the Valentine notes (how could we!) call last week. If you think better late than never, send your note for next week, marked Valentine, with Life No. & Lab ext., to bulletin@bnl.gov, or mail to Seubert, Bldg. 400C.

Environmental, Safety Audits, 2/14-25

By Bob Lee, Ed Nowak and John Selva

BNL documents our commitment to maintaining the safety of our workers and protecting our environment in the Environment, Safety, Security, and Health (ESSH) Policy. This policy is posted throughout the Lab and is available on the web. The Lab's Integrated Safety Management System (ISM) is part of this commitment. It is crucial to our operations because it documents, through experience and analysis, how to plan and conduct work in a safe manner at the Lab. It also is a key requirement of our contract with the Department of Energy (DOE).

Key elements of ISM are our Environmental Management System (EMS) and the Occupational Safety and Health Management System (OSH). Each requires an annual internal audit to analyze system performance. In addition, these management systems require that BNL assess conformance to key environmental, safety, and health (ESH) compliance programs, often

referred to as the "Multi-topic Compliance Assessment." Consistent with last year, all three audits (the EMS and OSH management systems internal audits and the Multi-topic Compliance Assessment) will be combined and conducted from February 14 to 25.

What is the employee's role in these audits? While you may not be interviewed, you should know that BNL has an ESSH Policy. Also, all employees must be familiar with the ESH aspects and hazards associated with their work and the consequences that could result from performing work outside of established controls. Finally, all employees should know the process for reporting emergencies. You can report emergencies to BNL by dialing Ext. 2222 or 911 from a Lab phone or 631-344-2222 from a cell phone or off site.

For more information concerning these programs or the

EMERGENCY?

Dial Ext. 2222, or 911

audit, or to provide feedback, please contact:

Environmental Management System

- Bob Lee, Ext. 3148
- John Selva, Ext. 8611
- Your EMS Representative
- Your Environmental Compliance Representative (ECR)

Occupational Safety and Health Management System

- Ed Nowak, Ext. 8211
- John Selva, Ext. 8611
- Your OSH Representative
- Your Safety & Health Representative

Contact information for EMS Representatives, ECRs, OSH Representatives, and Safety & Health Representatives is listed in SBMS under "Contact List."