the Bulletin

BROOKHAVEN NATIONAL LABORATORY

Vol. 66 - No. 6 March 2, 2012

Brookhaven Lab Director Sam Aronson to Step Down

On February 17, Laboratory Director Sam Aronson sent a memo to BNL staff to announce that in 2012 — after 11 years in senior management, including six years as Laboratory Director — he will step down as Director and return to a research position. He will continue to contribute to the Laboratory's mission in science and technology, discovery, and innovation.

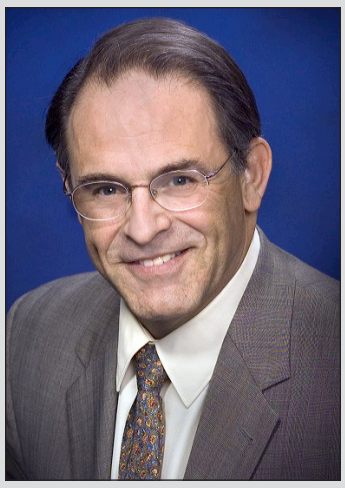
Until a new director is found, Aronson will keep a tight focus on pivotal science and operations issues. With the support and participation of Lab staff and the leadership team, he expects all to continue to strive for excellence in research, operations, and stakeholder engagement. Aronson identified four priorities:

- **NSLS-II** continues its excellent progress toward completion of construction and transition to operations
- **RHIC** continues to operate in an outstanding manner and produce great science for many years
- **BNL's energy strategy** grows its scope and impact both regionally and nationally
- **The Laboratory's operations** get back on the path to excellence. *See Story, Right*

Message From Director Sam Aronson

I thank the Lab community for the many good wishes I've received since my February 17 announcement that I'll step down as Director and return to research at the Lab. The Brookhaven Science Associates (BSA) Board will initiate an international search for my successor in the next few weeks, and information about that process, including a website, will be announced soon. I'll continue in this role until a new director is in place.

I'm committed to leaving the next director with a Lab that's positioned for continued success. This means I'll continue to work with you to achieve our goals of simultaneous excellence in science, operations, and stakeholder relations as we address budgetary and other challenges.



Roger Stoutenburgh D0150405

Sustainable Safety and Operational Excellence

I need your help on a serious matter essential for the Lab's future. It's imperative that we dramatically improve our safety performance and get sustained results in operational excellence. As part of this, I directed Policy Council members to hold stand-downs with their staffs through all-hands, supervisors only, or specific high-risk group meetings by last Wednesday. Many of you have already participated.

Why are we doing this?

Read more on p.2

New Opportunity to Help Industry Bring New Technologies to Market

Agreement to Commercialize Technology (ACT) Will Reduce Barriers for Intellectual Property Rights, Lab-Business Partnerships

Energy Secretary Steven Chu announced on February 24 that BNL will participate in a pilot initiative to make it easier for private companies to utilize the Laboratory's research capabilities. The program will harness America's unique advantages in innovation to create jobs and accelerate the development of new clean energy technologies.

"The Agreements for Commercializing Technology will cut red tape for businesses and startups interested in working with our nation's crown jewels of innovation, the national laboratories," said Energy Secretary Steven Chu. "This initiative will also strengthen new domestic industries by helping to bring innovative, job-creating technologies to the market faster."

Previously, companies wishing to partner with the laboratories for commercial research had two options: signing a Cooperative Research and Development Agreement (CRADA) or a Work For Others (WFO) Agreement. The eight laboratories participating in this pilot program intend to offer a third, more flexible option: an Agreement to Commercializing Technology (ACT).

ACT was created to address concerns that have been raised by industry and to remove barriers that sometimes got in the way of commercializing technology under a CRADA or WFO agreement. Specifically, under an ACT, there will be more flexibility in negotiating intellectual property (IP) rights for technologies created at the laboratory. While the labs generally have had limited flexibility on IP terms under CRADAs and WFO arrangements, an ACT will allow both parties to develop a specialized arrangement that will facilitate moving the technology into the marketplace as quickly as possible.

More flexible terms are also available on other issues ranging from payment arrangements to project structures to indemnification. The goal is to develop terms that are better aligned with industry practice.

Whereas WFO arrangements and CRADAs tend to be tailored for two-party agreements between one company and a lab, an ACT will make it easier to develop a multi-party research and development partnerships. Groups of companies, universities and other entities may come together with a laboratory to address complex technological challenges that are of mutual interest.

"Brookhaven was pleased to play a strong role in the development of the ACT mechanism and now, with the opportunity to be a pilot lab, we look forward to putting it into action," said Brookhaven Lab Director Sam Aronson. "This is an important…

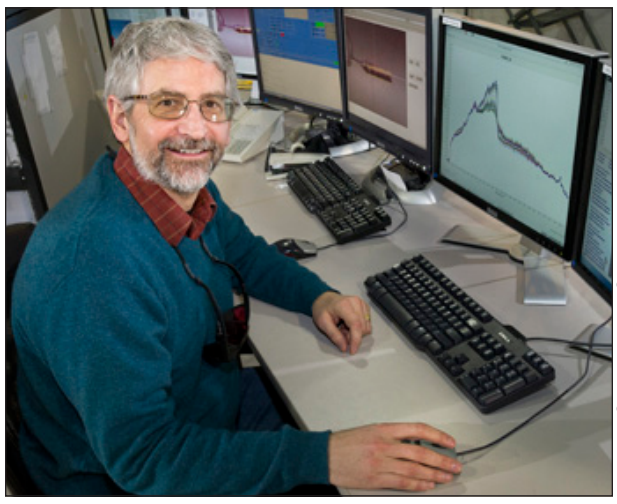
*See **ACT for Industry** on p. 2*

Ten Brookhaven Scientists Are Granted Tenure

Meet Allen Orville, Paul Sorensen, Bo Yu

Brookhaven Science Associates (BSA) granted tenure to 10 BNL scientists, effective December 1, 2011. The scientists are: James Alessi, Collider-Accelerator Department; Hooman Davoudiasl, Physics Department; Jason Graetz, Sustainable Energy Technologies Department; Ralph James, Nonproliferation & National Security Department; Qiang Li, Condensed Matter Physics & Material Sciences Department; Chang-Jun Liu, Biology Department; Ping Liu, Chemistry Department; Allen Orville, Biology Department; Paul Sorensen, Physics Department; and Bo Yu, Instrumentation Division.

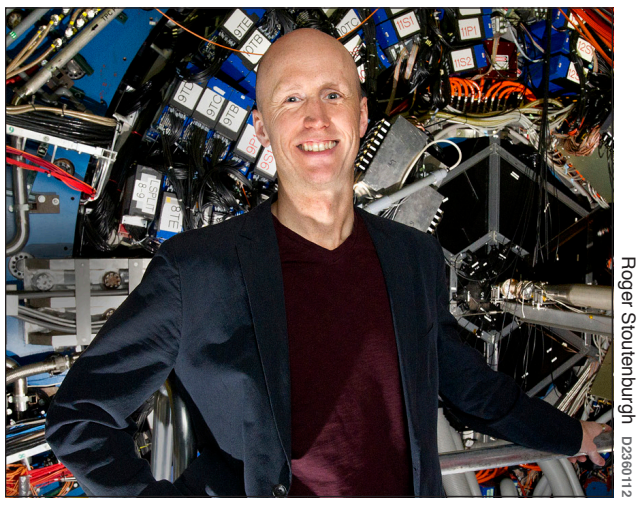
Tenure appointments are made after a rigorous selection procedure culminating in a comprehensive review of each tenure case by the Brookhaven Council, an elected body that advises the Director on matters of concern to the scientific staff. The BSA Science & Technology Steering Committee oversees the tenure process and makes final recommendations to the BSA board. The newly tenured scientists have been featured here in alphabetical order, or as photographs or articles became available. The contributions of James Alessi and Hooman Davoudiasl appeared in the Bulletin of January 27; those of Ralph James and Ping Liu, on February 3; of Jason Graetz, Qiang Li, and Chang-Jun Liu, on February 17. Allen Orville, Paul Sorensen, and Bo Yu are featured below.



Roger Stoutenburgh D0900112

Biophysicist Allen Orville of the Biology Department and Photon Sciences Directorate has been awarded tenure for his creative, original work in integrating several research techniques to understand how specific enzymes affect biochemical reactions such as metabolism, light emission, photosynthesis, and DNA repair.

For his work with these enzymes — proteins called metalloenzymes and flavoenzymes — Orville uses the innovative X26C beamline he developed at the National Synchrotron Light Source (NSLS). There, scientists study chemical reactions and biological processes using multiple techniques — optical absorption spectroscopy, Raman spectroscopy and X-ray crystallography — to collect complementary data nearly simultaneously from the same single-crystal sample. This insight helps to determine how biological processes affect the..... *See **Allen Orville** on p. 2*

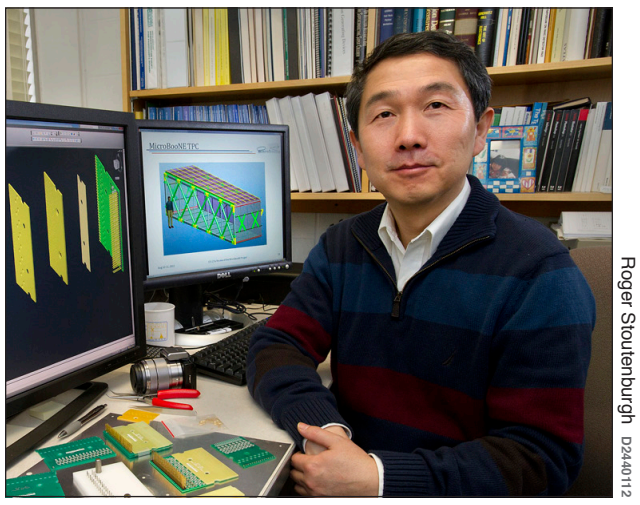


Roger Stoutenburgh D2360112

Physicist Paul Sorensen, Physics Department, was awarded tenure for outstanding research yielding some of the most powerful evidence that the matter produced by the Relativistic Heavy Ion Collider (RHIC) is quark gluon plasma, the liquid-like, flowing mix of elementary particles left in the Big Bang's wake. For his important early measurements, Sorensen won the 2008 George E. Valley Jr. Prize of the American Physical Society. In 2009, he also received the Presidential Early Career Award for Scientists and Engineers.

"Paul is internationally recognized for scientific accomplishment of great significance for nuclear physics and the BNL RHIC program," said Tom Ludlam, Physics chair. "He is seen in the Physics Department as a key figure in the Lab's intellectual and technical leadership in this field."

Sorensen received his..... *See **Paul Sorenson** on p. 2*



Roger Stoutenburgh D2440112

Physicist Bo Yu, Instrumentation Division, was granted tenure for his outstanding, creative research on gas and noble liquid detectors. His pioneering work on position sensitive detector concepts resulted in many advanced detectors for charged particles, thermal neutrons, and X-rays, finding application in major research facilities in the U.S., Europe, and Australia.

Yu's key contributions include developing the cathode-strip particle position readout adopted as the basis of the muon chambers of the ATLAS detector at the Large Hadron Collider at CERN, Switzerland. He also contributed significantly to the design of high multiplicity detectors for heavy-ion research, from early experiments at the Alternating Gradient Synchrotron to high-accuracy position readout of gas-filled detectors in the PHENIX experiment at BNL's Relativistic Heavy Ion Collider. *See **Bo Yu** on p. 2*

Coming Up: Talk on Clouds, Waves, Supernovas

Sponsored by Brookhaven Women in Science, Katherine Prestridge, Los Alamos National Laboratory (LANL), will talk on "Clouds, Waves and Supernovas: Understanding Fluid Mixing in Extreme Conditions,"on March 15, 4 p.m., Berkner Hall.

In Memoriam

John Markott, who joined the Architectural Planning and Plant Maintenance Division on June 24, 1947, as a sheetmetal worker B, became a master metalworker, and retired from the Alternating Gradient Synchrotron Department on September 30, 1986, as a senior technical specialist, died on January 9, 2009. He was 84.

Frederick Paffreth, who joined the Physics Department as a staff shop technician II on November 18, 1957, and retired as a senior technical associate on April 28, 1989, died on December 25, 2011. He was 93.

John Downey, who came to the Medical Department as an industrial physician on November 17, 1969, and retired on June 30, 1980, died on January 7, 2012. He was 86.

William Sims, who joined the Physics Department as a technician on January 23, 1961, and moved to the Alternating Gradient Synchrotron Department in 1971 as a technical supervisor II, died at 74 on January 13, 2012. He had retired as a senior research engineer on May 31, 2000.

Thomas Reisig, who joined the Plant Maintenance Division on June 17, 1968, as a janitor, and retired from the Supply & Material Division on May 1, 1998, as a storeskeeper, died at 75 on January 24, 2012.

Bo Yu *from p. 1*

Also, Yu's work on liquid argon time projection chambers was a key factor in BNL's emergence as a leading institution in the present and future development of neutrino detectors based on liquid argon technology.

"Bo has made significant, original contributions to the state-of-the-art of detectors and, in particular, to the art and science of position sensing of charged particles, neutrons, and photons. In developing detector techniques, it is rare for one person to originate an idea, then perform simulation, experimental verification, and integration into the final instrument," said Veljko Radeka, Instrumentation Division head. "Bo has a unique combination of all these capabilities, which he has applied to the benefit of critical BNL programs in particle physics, neutron and synchrotron physics, medical imaging, and homeland security."

Bo Yu came to BNL as a graduate student in 1986, earned his Ph.D. in physics from the University of Pittsburgh in 1991, and joined BNL staff in 1991. He was honored with the BNL Science and Technology Award in 2003. — Natalie Crnosija

Allen Orville *from p. 1*

…structure of enzymes and how their structure affects their functions.

"Allen's expertise and drive is an invaluable resource for the NSLS and for realizing the potential of NSLS-II going forward," said Creighton Wirick, Biology Department Interim Chair.

Orville is the spokesperson for a future beamline at NSLS-II, the "Single-Crystal Spectroscopy & Macromolecular Crystallography at a Three Pole Wiggler Beamline (SM3)." It will extend the X26C beamline's current capabilities, enabling multidisciplinary, nearly simultaneous studies of single crystals.

In addition to developing X26C, which is recognized internationally as one of the leading beamlines for simultaneous x-ray diffraction and spectroscopic experiments, Orville worked on more than 120 publications and was invited to speak at 55 talks around the world. He also contributed 41 crystal structures to the Protein Data Bank, an international storehouse of three-dimensional structural information about proteins, nucleic acids, and other biological macromolecules.

Orville's career began at the University of Minnesota, where he earned a bachelor's degree in biology in 1983 and a Ph.D. in biochemistry in 1997. He joined BNL in 2006. — Joe Gettler

Paul Sorenson *from p. 1*

…Ph.D. from the University of California, Los Angeles, in 2003. He came to BNL in 2005 as a Goldhaber Fellow, joining the STAR detector group.

An expert in the use of heavy ion data to clarify bulk properties of quark gluon plasma and its expansion dynamics, Sorensen has been a leader of the Solenoidal Tracker at the RHIC STAR experiment's analysis of the quark gluon plasma's flow data.

Recently, Sorensen has focused on characterizing the plasma through fluctuations in the flow patterns observed in heavy ion collisions at RHIC. He recognized that the "lumpiness" of the collision's initial geometry should be transmitted to fluctuations in the final-state flow patterns and into the correlation structure of the final-state particles. He is also among the leaders in developing studies of heavy ion collisions over a range of energies, which may reveal a predicted critical endpoint of quark gluon plasma's phase boundary and is of extreme interest to the nuclear physics community.

— Natalie Crnosija

LIANS Dinner Meeting, 3/7

At the next dinner meeting of the Long Island Chapter of the American Nuclear Society (LIANS), on Wednesday, March 7, Edward J. O'Connell, Radiation Safety and Laser Safety Officer, Stony Brook University, will talk on "Radiation Safety at an Academic Medical Center."

The meeting will be held at Brickhouse Brewery & Restaurant, 67 W. Main St., Patchogue, (631) 447-2337. Complimentary appetizers/cash bar will start at 6 p.m., dinner at 7 p.m., and O'Connell's talk at 8 p.m. The cost is $25/person, which has been in part defrayed by LIANS. To reserve, leave a message with Arnie Aronson, Ext. 2606, by Tuesday, March 6.

Sustainable Safety and Operational Excellence

…continued from p. 1

Too many safety and operational incidents: A series of injuries and incidents — some extremely serious — has revealed major gaps in our safety and operational performance.

During the past year, we've had four life-threatening events — the fall from the scissor lift, the tree-felling injury, a fall from scaffolding, and a 480-volt shock. In addition, we've had other serious events over the past three years — a broken leg from a rebar fall, a rigger injury in Bldg. 1005, a cable strike in the North Complex, a piranha etch explosion, and the sealed source contamination. The number of significant events continues to trend upward.

All of these were preventable. We have the right systems, procedures, and requirements — but, intentionally or not, we don't always follow them. And we're not learning from our mistakes — we've had multiple incidents associated with the same type of hazard or activity. In a recent safety survey, many in the Lab community identified this failure to learn as a major weakness in our safety culture.

Begin Now

- Be engaged
- Hold yourself and others accountable
- Be a role model for safe behavior

Financial and non-financial costs

Besides the human toll, these events were costly through lost productivity associated with investigations and corrective actions. This diverts money from our science mission and undermines the trust-based relationships built with DOE and other funding agencies.

Our customer's mandate

The DOE Office of Science (SC) is our customer and expects us to do better. Its directive is clear. We received a grade of 'B-minus' for Environment, Safety, and Health in the FY 2011 "report card" from the DOE. 'B-minus' was the lowest grade for any category among the SC labs. Our DOE-approved FY 2012 Annual Laboratory Plan (see the February 6 Monday Memo) highlights the need for significantly improved safety performance and its connection to how we manage the Lab to achieve operational excellence.

Engagement is a common theme

As we investigated the incidents, three common characteristics became clear — supervisors and managers are (1) not fully engaged, (2) not acting in an accountable manner and holding others accountable for their actions, and (3) not modeling the types of behavior we expect from others. In communications from staff members since my message to you on February 16, the theme of "walking the talk" has emerged several times. Our staff deserves a fully engaged management team.

We all have a stake

We must have an unrelenting commitment to safety and operational excellence. If we're to succeed, especially in these fiscally challenging times, every member of the Lab community must take personal responsibility to improve our performance and support each other. Begin now — be engaged, hold yourself and others accountable, and serve as a role model for safe behavior.

A Première Woman in Brookhaven Science

Distinguished Physicist Gertrude Scharff-Goldhaber

Gertrude Scharff-Goldhaber — the first woman Ph.D. hired at BNL and one of the founding members of Brookhaven Women in Science — was born July 14, 1911, in Germany. Excelling in science, she pursued a university education and, eventually, a Ph.D. in physics. After some time in England, in 1939, she married physicist Maurice Goldhaber and joined him at the University of Illinois in Urbana, where she focused her research on nuclear physics.

Scharff-Goldhaber discovered that neutrons were emitted in spontaneous fission. Then, together, the Goldhabers collaborated on an experiment that revealed that electrons in an atom and beta particles emitted from an atomic nucleus are identical.

Mort Rosen 3-544-84

In 1950, the Goldhabers moved to BNL, where both had research positions. Scharff-Goldhaber's work in the excitation of nuclei set the groundwork for the theory of nuclear motion. In 1995, in celebration of its 100th year, the American Institute of Physics and the American Physical Society published the *The Physical Review, the First Hundred Years*, which included two of Scharff-Goldhaber's papers for their significance to 20th century science.

Scharff-Goldhaber died in 1998, but her influence endures at BNL. Notably, the $1,000 Gertrude Scharff-Goldhaber Prize (see below), is available for female physics graduate students at Stony Brook University or who perform thesis research at BNL; and the combined Gertrude and Maurice Goldhaber Postdoctoral Fellowships for science research at BNL.

— Natalie Crnosija

Call for Nominations

2012 Gertrude Scharff-Goldhaber Prize

Brookhaven Women in Science (BWIS) is now accepting nominations for the 2012 Gertrude S. Goldhaber Prize. This award honors the late Gertrude Scharff-Goldhaber, the renowned nuclear physicist who, in 1950, became the first woman Ph.D. appointed to BNL's staff (see above). She was also a founding member of BWIS.

The $1,000 award is granted to a female graduate student in physics, who is recognized for her substantial promise and accomplishments. She will be expected to give a seminar on her work at the award ceremony in the spring. To be eligible, she must be an enrolled physics graduate student who is a candidate for a doctoral degree, but she should not be graduating with that degree before spring 2012. She must either be enrolled at Stony Brook University (SBU), or be performing her thesis research at BNL.

BNL staff and members of the faculty of SBU's Department of Physics and Astronomy can make nominations before March 31, 2012. For more information, or to obtain copies of the nomination form, contact Linda Bowerman, Ext. 4265, or *lindan@bnl.gov*.

ACT for Industry *from p. 1*

…step forward on Brookhaven's path toward increasing the impact of our research, as it will open doors for new types of collaborations and expedite the translation of our discoveries into tomorrow's market applications."

The participating labs are: Ames Laboratory, BNL, Idaho National Laboratory, Lawrence Livermore National Laboratory, National Renewable Energy Laboratory, Oak Ridge National Laboratory, Pacific Northwest National Laboratory, and Savannah River National Laboratory.

DOE's laboratories have a long tradition of working with businesses and academia on scientific research and technology development efforts that have generated many advances, spawned new businesses and supported the creation of new industries and jobs.

ACT complements the goals of the Obama Administration's "Startup America" initiative and is part of DOE's broader efforts to support startups and small businesses, including the "America's Next Top Energy Innovator" Challenge, which gives startup companies access to the Energy Department's thousands of unlicensed patents at a greatly reduced cost and less paperwork.

To view the FAQ on Agreements for Commercializing Technology (ACT), visit *http://technologytransfer.energy.gov/ACTpilotFAQ.html*.

BERA African American Affinity Group Looks Forward

During February, BERA's African American Affinity Group (AAAG) sponsored several events to celebrate Black History Month. Among these was the Art Display, which exhibited striking and imaginative photographs from BNLer Ripp Bowman, who serves as AAAG Art Committee Chair; a compelling painting by AAAG member Leroy Smalls; as well as art and artifacts from Ghana, Tanzania, and Egypt, and paintings by the late Michael Newton of Long Island, and silk screen artist Daw'u of Atlanta.

Other events organized during February by the AAAG were: a talk by The Massachusetts Institute of Technology's Sekazi K. Mtingwa on influential Afro-Russians Alexander Sergeyevich Pushkin and Pushkin's great-grandfather Abram Petrovich Gannibal; a video presentation of a NOVA program, *The Forgotten Genius*, on the life of elected National Academy of Sciences member and brilliant chemist Percy Julian; and a video documentary, *No Short Climb*, by Robert Johnson, Jr., which focuses on the contributions of African Americans to America's defense technology.

Joseph Rubino D1610212

At the Art Display organized by the BERA African American Affinity Group are members: (front row, from left) Barbara Simpson; Gloria Bennett; Janine Truitt, Member-at-large; Yvette Hayes, Corresponding Secretary; Ripp Bowman; Patrice Greenwood, Recording Secretary; Joy Haskins; (back row, from left) Noel Blackburn, President; Patrick Bynum, Vice-President; Omar Gould, Member-at-large; Leroy Smalls; Gretchen Cisco, Treasurer; and Juanita McKinney, Chairperson Outreach and Public Affairs.

Said Noel Blackburn, who leads the group, "The AAAG is focused on empowering the quality of life for its members and the BNL community by adding value through cultural, social, academic and scientific activities. One such activity is a scholarship program that will benefit high school seniors and college graduates, and we gladly accept contributions to support this new initiative. Through my work in the Office of Educational Programs, I know how valuable the encouragement of a scholarship can be to a student who is starting out on her or his career, and we want to promote that kind of encouragement to as many young people as possible."

For more information, or to join the AAAG, contact Yvette Hayes, *yhayes@bnl.gov*, Ext. 2833; or Janine Truitt, *jtruitt@bnl.gov*, Ext. 2431. — Liz Seubert

BNL Completes Major Science Lab Renovation

BNL has concluded the first phase of an ongoing effort to modernize existing research facilities through the complete renovation of materials science research and fuel-testing laboratories. The new facilities, in the Condensed Matter Physics & Materials Science Department (Bldg. 480) and the Global and Regional Solutions Directorate's Applied Physical and Chemical Sciences building (Bldg. 815), will support cutting-edge investigations into some of the most important questions facing DOE today.

"In building 480 laboratories, research is focused on characterizing new materials," said Peter Johnson, Condensed Matter Physics & Materials Science Department Chair. "We look at superconducting materials with a view on potential energy technology application."

In Building 815 laboratories, materials science researchers are investigating ultra-sensitive tracer technologies for use in portable, durable instrumentation that can detect hazardous and potentially dangerous materials.

The facilities in both buildings dated back to the 1960s, said the Modernization Project Office's Richard Scheidet, who served as project manager for this renovation phase. Scheidet described the work, which began in October 2009 and was completed in November 2011, as a total rehab. Improvements include the replacement of cabinetry, ceilings, walls, floors, all lab furniture, ventilation systems, electrical systems, fire protection and sprinkler systems, water and gas pipes, and fume hoods. The new lighting, heating, ventilation, and air conditioning systems will cut down on the buildings' energy use.

Joseph Rubino D0830212

A newly renovated laboratory space in Bldg. 815.

"We did everything necessary to make the lab appealing to new scientists and to support world-class research," Scheidet said.

Flad Architects was retained to design the existing spaces into modern, efficient laboratories, and E.W. Howell completed the general contracting work.

In all, the project updated 27,500 square feet of laboratory, office, and common space.

In keeping with BNL's green goals, Scheidet said, "We went through the checklist and we looked at items like energy-saving lights, energy-saving water systems, and making sure that the materials were recycled in a proper manner. We also used environmentally friendly paints and sealants."

The architecture team of Bergmann Associates with EYP Architecture & Engineering is handling the second phase of the renovation, which is ongoing and includes the buildings that house the Chemistry and Physics Departments (Bldgs. 555 and 510). These renovations are scheduled for completion in May 2013. — Natalie Crnosija

Calendar

— WEEK OF 3/5 —

Wednesday, 3/7

***BSA Noon Recital: String Quartet**
Noon. Berkner Hall. The Linden String Quartet, a winner of the 2010 Concert Artists Guild Victor Elmaleh Competition, will perform. All are welcome to this free concert, sponsored by Brookhaven Science Associates and open to the public. Visitors to the Lab or 16 and older must carry photo I.D. See below.

Thursday, 3/8

Summer Camp Expo
11 a.m.-1:30 p.m. Berkner Hall lobby. More than a dozen camp directors and staff — including BNL summer camp organizers — will give information on their summer programs. See p.4.

— WEEK OF 3/12 —

Thursday, 3/15

Talk on Clouds, Waves, Supernovas
4 p.m. Berkner Hall. Katherine Prestridge of Los Alamos National Laboratory will speak on "Clouds, Waves and Supernovas: Understanding Fluid Mixing in Extreme Conditions," as part of a colloquia series sponsored by Brookhaven Women in Science. All are welcome to this free event, open to the public. Visitors to the Lab of 16 and older must carry photo I.D.

— WEEK OF 3/19 —

Wednesday, 3/21

476th Brookhaven Lecture
4 p.m. Berkner Hall. Gianluigi DeGeronimo of the Instrumentation Division will talk on a topic to be announced. All are welcome to this free event, open to the public. Visitors to the Lab of 16 and older must carry photo I.D. Refreshments will be offered before and after the talk.

Arrivals & Departures

— Arrivals —

Katherine Jungjohann ..... CFN
Hui Liu ..... Biology
Alexandra Pulecio ..... CEGPA
Diktys Stratakis..... Physics
Mary Ellen Weilbrenner ... Medical
Yi Zhu ..... Photon Scis

— Departures —

Yun Cai .....Chemistry
Shayn Coffey ..... Site Resources
Xiao-Liang Wang ..... CFN
Jon Stalhut.....ITD

BERA Trips Ahead

For more information about upcoming trips, see the listings on the BERA website: *www.bnl.gov/bera/recreation/events.asp*
Sat. 4/7, NY International Auto Show, NYC, $20
Sat. 4/14, Foods of NY Walk in NYC, then free time, $65
Sat. 4/21, Tour Grand Central Station, then free time, $25
Buy tickets at the BERA Store in Berkner Hall, 9 a.m-3:30 p.m.

BSA Noon Recital: The Linden String Quartet, 3/7

The Linden String Quartet, a winner of the 2010 Concert Artists Guild (CAG) Victor Elmaleh Competition, will perform with CAG award-winning pianist Michael Brown in a concert on Wednesday, March 7, at noon in Berkner Hall. Sponsored by Brookhaven Science Associates, the concert is free and open to the public. All visitors to the Lab 16 and older must bring a photo I.D.

Founded in the spring of 2008, the Quartet won the Gold Medal and Grand Prize of the 2009 Fischoff National Chamber Music Competition, the Coleman-Barstow Prize at the 2009 Coleman National Chamber Ensemble Competition, First Prize at the 2010 Hugo Kauder Competition, and, most recently, the ProQuartet Prize at the 9th Borciani International String Quartet Competition.

Michael Brown is the First Prize Winner of the 2010 CAG Victor Elmaleh Competition. An accomplished composer, he was awarded the 2009 Palmer-Dixon Prize from Juilliard and his works have been performed internationally.

At the BNL performance, the Quartet will perform Bartok's remarkable Quartet No. 3, Brown will play short solo works by Ravel, followed by Quartet with Robert Schumann's Piano Quintet Op. 44.

— Jane Koropsak

Classified Advertisements

PHYSICAL REVIEW LETTERS SEEKS AN ASSISTANT EDITOR - The editors of *Physical Review Letters* seek a dynamic and personable colleague for the position of Assistant Editor at the editorial offices in Ridge, New York, on Long Island near Brookhaven National Laboratory and Stony Brook University. The primary job of an editor is to decide, aided by anonymous peer review, which papers merit publication according to the journal's criteria. A recent Ph.D. in physics or a closely related field is required, as well as some postdoctoral research experience. Familiarity with the research publication process and an excellent command of written and spoken English are essential. We will train the new editor to develop needed editorial skills. Although a person with a strong physics interest would be well qualified, we have some preference for someone with experience in contemporary atomic, molecular, and optical physics, or with soft condensed matter physics. In addition, we would welcome an interest in contributing to ongoing efforts by the APS journals to reach out to nonspecialist and general readers. We offer career stability, a competitive salary, and an outstanding benefits package to a qualified individual ready to start a nontraditional career in physics. For general information about the American Physical Society and its journals, see www.aps.org. To apply, please 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, Ridge, NY 11961, *edresumes@aps.org*, Fax: 631-591-4155. EOE M/F/D/V.

Current job openings and a statement of job placement policy at BNL are available on the homepage at *www.bnl.gov/HR/careers/*. To apply for a position, go to *www.bnl.gov* and select "Search Job List." For more information, call Ext. 2882.

Motor Vehicles

09 BUICK LACROSSE, CXL – 54.8K mi. lthr int, am/fm/cd, pw/pl, back-up sensors, 100K ext warr, price for quick sale, orig owner. $12,000 neg. 689-6933.

08 HANDA CIVIC – 45K mi. (end of 2008) 45K mi. 4cyl, 4dr, a/t, a/c, p/s, p/w, p/l, am/fm, MP3, CD, tilt wheel, eng, ABS brakes, tires v/gd. $12,800 neg. 339-3444.

03 TOYOTA HIGHLANDER – 69.5K mi. v/clean/well maintd by orig owner, new tires, brakes, batt, V6, awd, sunroof & a/t start, must see. $11,000 neg. 697-6383.

02 KAWIASKI VULCAN CLASSIC 1500 – 16K mi. mint two-tone, new pipes, luggage rack, more. $5,800 neg. 942-9284.

01 HARELY DAVIDSON SOFT TAIL DUECE – 5K mi. mint cond. $9,000. George, Ext. 5793, 375-4400.

98 JEEP GRAND CHEROKEE V8 – 162K mi. runs v/well, clean, new tires, lthr, tints, after market radio and spkrs, req pics. $3,500 neg. Brendon, Ext. 8325.

95 FORD EXPLORER – low mi, great cond. $3,200 neg. John, 563-6596.

Boats

25' SEARAY SUNDANCER – '98, excel cond, 5.0 Bravo III Mercruiser Eng, new in '03, Bimini Top/Camper Canvas/Cockpit Cover, pic avail. $19,500 neg. 495-1184.

Furnishings & Appliances

BABY'S DRESSER – excel cond, wooden dresser/$220/obo pic at: http://tinyurl.com/zidki-dresser. Tomer, Ext. 4330 or zidkit@bnl.gov.

BR CABINET + MED CHEST – chest w/ shelf over commode, 23"w x 9¼"d x 62"h; $50 oak med chest w/mirror 51w x 33.5h x 6.25d, $50/obo, pics. 909-7080.

DISHWASHER – Whirlpool, white, 6 yrs old, used only for 2 yrs/$125; Kenmore upright freezer/b/o, will deliver. Karen, Ext. 4432.

DRESSERS – 2 med oak, 1/high chest, 1/low double, gd cond, ask/$500. Donna, Ext. 2716, 878-2425 or storan@bnl.gov.

FURNITURE – sely couch 3'x8', Love seat,3'x6', Scotchgard w/9 pillows, barely used, $475; Russ, 742-3239.

MOVING SALE – best offer for: Toddler bed + mattress, dining, coffee and side tables, wall and side lamps, bookcase, vacuum cleaner, hand mixer and kid's CD player. Pics at: http://tinyurl.com/zidki-sale. Tomer, Ext. 4330, 637-398-8468.

WASHER & DRYER – both Whirlpool, gas dryer, front load, duet, v/gd cond, commerical washer, heavy duty, gd cond, call for more info, both $200. Ext. 3849.

Audio, Video & Computers

DELL DIMENSION XPS – Tower, P4 3.2GHz, 3GB RAM, new 250GB HD, Windows XP Pro, runs well, $100. Mark, Ext. 3970 or mwahlert@bnl.gov.

KINDLE – brand new in box, pd $79+ship, will sacrifice $70. Ben, 921-9133 or brmastrocola@yahoo.com.

SMC WIRELESS G ROUTER – SMC2804W-BRP-G has built in USB print server/$15. Mark, Ext. 3970 or mwahlert@bnl.gov.

YAMAHA KEYBOARD – PSR-75 + stand, gd cond, $19. Kwinten, Ext. 5649.

Sports, Hobbies & Pets

CLUB-TEK WEIGHT BENCH – used adjustable bench for incline/ decline or flat dumbbell work, some upholstery damage, $20/obo. Lori, Ext. 5366 or stiegler@bnl.gov.

FENDER STRATOCASTER – 1984-87 Japan, red, excel, rosewd fret brd, 3 sgle coil pickups, lockg nut, Fender Schaller type 1 tremolo, fine tuning knbs, case, $600. Ext. 7999.

HOT TUB SPA – lounge seat, rotating back massage jet, seats 4, 6'x7', cedar outside fair, runs well, insul top, will deliver in area, $190. Ed, Ext. 7251, 516-924-4299.

HOT WHEELS TRACKS – 9-10 different sets w/instructions/$50. 678-3299 or dgordon@bnl.gov.

JAYCO TRAVEL TRAILER 29' RLS – upgraded a/underbody insul/Mag wheels/sat TV, a/t awning, 7 yr ext/trnsferbl war, more, ask/$19k. Richard, Ext. 5684, 872-5074.

LINE 6 SPIDER 3 GUITAR AMP – 15 Watts, 4 amp models, sounds great/$75, details http://tinyurl.com/88w7rrl . Jesse, Ext. 2122 or jmontalto@bnl.gov.

POCKET BILLIARDS – calling all pocket billiard players for games of 14.1, 8 ball, 9 ball, one pocket, etc, at a local pool hall. Eddie, Ext. 4080 or esierra@bnl.gov.

SURFBOARD – Roxy, 7.5', light blue w/ pink details, cushioned, non-slip, surface, leash incld, excel cond, $400. 219-7196.

TREADMILL – Pro From 570 Crosswalk Treadmill, about 5 yrs old, excel cond, u-pic-up, email for pics or add'l detail, $300. Debbie, Ext. 5664 or bauer@bnl.gov.

Tools, House & Garden

2 NON VENTING SKYLIGHTS – used in gd cond/$200. 404-8109.

KITCHEN UTENSILS – IKEA kitch set, used 1.5 yr, 4 plates, cups, bowls, pan, cooking pots/$25. Kwinten, Ext. 5649.

TORO RECYCLER MOWER – personal pace, 190cc/$275; Homelite Weed Trimmer, 26 cc, both used 1 season/$40; both/$300. Tony, 294-2133.

WOOD STOVE – case iron, lg, Vogelzang Box, 94btu, model #2421, holds 27"logs, new/$350,ask/$150. Russ, 742-3239.

Miscellaneous

CHILD BOOSTER CAR SEAT – Cosco high back,for +/- 2yr old, $15, hardly used. Kwinten, Ext. 5649 or kvweverberg@bnl.gov.

DANCE DANCE REVOLUTION – 2/pads for xbox/$40, Silicone covers for Blackberry, 10 colors, never used, $20. Donna, Ext. 2716, 878-2425 or storan@bnl.gov.

KHLOE AND LAMAR UNBREAKABLE – gift set/$50. dmcarthur@bnl.gov.

KINDLE $60 – Kindle Wireless Reading Device, 3G, 6" Display, white, 2nd Generation. dmcarthur@bnl.gov.

NEW GOWN – never worn, Cameron Blake by Mon Cheri long black jersey w/3/4 sleeves, hand-beaded appliqué on side, half orig price/$150. 331-3785.

PICTURE FRAME – god-daughter, pink and white w/short poem, brand new in packaging, overall 7" x 9", for 4x6 photo, orig/$20, sell/$10. Kathleen, Ext. 7114.

WEDDING GOWN – white sweetheart style-chapel train w/bow at back, sz4-6, top beaded by well known designer,wore only for church cerem-$700/neg, pic. Ext. 8330.

Community Involvement

4K FOR CANCER – This summer I will be making a trek, by bike, across the country from Balt to San Fran to raise money for cancer research. FYI, find a brochure in the PO. Thanks for any help. Kevin, 988-9541 or barnett.kevin.m@gmail.com.

Free

2012 SHEN YUN BOOKLET – classical Chinese dance booklet, please contact me to have one. George, Ext. 4033.

KEROSENE TANK & STAND – 55 gal, empty, excel cond. 924-4097.

Wanted

CAR – want to buy Toyota Camry 97-99 or a Honda Accord 98-02. Femi, Ext. 5740, 516-761-2236 or obamgbose@bnl.gov.

GAS OVEN – Propane, 30" or less. Karen, Ext. 4432.

TRICYCLE – or 10-12" toddler bike. Ext. 7761.

WEIGHT EQUIPMENT – used weights, dumbells, bench, squat rack. Steve, steve191418@gmail.com.

For Rent

BROOKHAVEN HAMLET – rm in 3 bdrm hse, looking for quiet, professional, non-smkr/drkr, 10 mins to BNL, incl util, leave msg. $700/mo. 294-7505.

MIDDLE ISLAND – ArtistLake Dr, 1 big bdrm, upper flr, 900sq ft, 7 min to BNL, new appliances, decoration, no pets. $1,100/mo neg. Lei, 516-225-3848.

MILLER PLACE – 2 bdrm, 2 bath, l/r-d/r kitch, carport, bsmt, a/c, 3 zn heat, deck, w/d, priv ent, priv beach rights, no smkg/pets, util extra, avail 3/15. $1,500/mo. 738-1189.

MOUNT SINAI (CEDAR BEACH) – 1 bdrm waterfront cottage w/sm yd, full bath, beaut location, priv beach rights, no pets, util not incl. $1,200/mo. jpereiro@bnl.gov.

PORT JEFFERSON STATION – brand new apt w/1 bdrm, l/r, kit, incls all util, use of w/d, nice area. $1,100/mo. Brian, 707-2881.

RIDGE – 1 bdrm/full bth, l/r/kitchenette, sep ent & prkg, mins to Lab, incls all. $975/mo. Lynne, Ext. 5165.

RIVERHEAD – renovtd 2 bdrm, 1 bath apt, new appli, eik, l/r, quiet, nr shops, unfurn, no smkg, refs & cc reqd. $1,200/mo. Laura, 885-1839.

RIVERHEAD – 3bdrm Ranch, 2 full b/r, kit w/dw, l/r,d/r, w/d & gar, new wndws & furn, quiet, nr shops, no smkg/pets, refs & cc reqd, 1/mo sec+util. $2,250/mo. 512-6470.

SOUTHAMPTON – 2.5 bdrm, 2 full bathnewly renov, eik, all updated, hdwd flrs, new light…fixtures, appli, paint, huge priv yrd, photos. $2,200/mo. Ext. 8715 or tbuck@bnl.gov.

WADING RIVER – spacious new 1 bdrm apt, part furn,quiet n'borhd, cable,int, utils incl, no smkg/pets. $950/mo. 838-5879.

For Sale

MIDDLE ISLAND – 4 bdrm ranch, 2 bath, eik, f/p, cac, pool, deck, fin bsmt, 2 car, sprinklers, shed, 600sq ft shop. $279,900 neg. Frank, 775-6636.

SHOREHAM – Robert Ct, 3brm 1.5 bath Col, cul de sac, updated kitch/bath, stainless appl, new w/d, den w/fp, deck, wood shed, gar, 10 min to Lab. $349,000. 744-8793.

Joseph Rubino D1560212

Leaders of Brookhaven Lab's United Way campaign with a check for $193,552.98 — the total amount BNL raised during the 2011 campaign. BNL is the third largest contributor to the United Way on Long Island.

BNL Gives a Big Check to the United Way of Long Island

"I have a check here," said Bob Lincoln, Chair of BNL's 2011 United Way Campaign. "You can take this and start using it to help the community and residents of Long Island."

With that, and applause from approximately 35 BNL captains and volunteers from departments across the site, Lincoln handed the check to United Way Account Executive Dawn Neilson during a ceremony held in the Recreation Hall on February 16.

Brookhaven raised a total of $193,552.98 during its 2011 campaign. According to Neilson, that makes the Laboratory the third largest contributor to the United Way on Long Island, behind only the National Grid and Geico.

"This was a terrifically successful campaign," said Doon Gibbs, Deputy Laboratory Director for Science & Technology. "Congratulations and thank you to all of us."

Gibbs also noted that many of the employees' pledges, which accounted for more than 75 percent of the Laboratory's total contributions, were made through the Lab's Pillar Campaign. Gerry Stokes, Associate Laboratory Director for Global and Regional Solutions, led this effort.

The other 25 percent of the campaign's success was collected at bake sales, breakfasts, luncheons, and holiday fairs held on site during November and December 2011. Brookhaven Science Associates, the company that manages Brookhaven National Laboratory for the Department of Energy, also contributed $10,000: $20 for every hour that BNLers gave of their own time in their own neighborhoods — volunteering at hospitals, nursing homes, and soup kitchens; or as scout leaders, firefighters, and emergency medical technicians, for example.

The 2011 United Way Campaign was several weeks shorter than in previous years. In that shorter amount of time, however, BNLers contributed $18,000 more than in 2010.

— Joe Gettler

Summer Camp EXPO on Site, 3/8

On Thursday, March 8, from 11 a.m. to 1:30 p.m., BNL will hold the annual Summer Camp EXPO in Berkner Hall lobby. Parents and grandparents can get a good idea of the opportunities offered by the Long Island summer camps, which will describe their programs and also give information on Counselor-in-Training opportunities for teens. Camp directors and staff will give out camp information and registration forms. Below is a list of some of the summer camps that will be at the EXPO.

Questions? Contact Liz Gilbert, Ext. 2315, *gilbert@bnl.gov.*

Baiting Hollow Camp, Baiting Hollow
BERA Summer Program
Brookhaven Country Day Camp, Yaphank
Brookhaven YMCA, Holtsville
Camp Paquatuck, Center Moriches
Girls Scouts of Suffolk County, Bayport
Harbor Country Day School, St. James
Hidden Pond Day Camp, Hauppauge
Hofstra Summer Camps, Hempstead
Ivy League Day Camp, Smithtown
Peconic Dunes Camp, Riverhead
Raynor Country Day School, Westhampton
St. Joseph's Children's Programs
Stony Brook Summer Camp, SBU
Summer Fun Days, Yaphank

New BERA Fitness Class Schedules, March-April

BERA fitness classes make staying in shape easy. Here are some choices:

- **Aqua Aerobics**: Eight-week session, Tuesdays and Thursdays from 5:30 to 6:30 p.m. at the pool (Bldg. 478). Tuesdays: March 6-27, April 3-24; Thursdays, March 8-29m April 5-26. $32/once per week, $60/twice per week.
- **Pilates**: Seven-week session, Tuesdays, noon-1 p.m. at the Rec Hall (Bldg. 317). March 6-27, April 3, (no 11), 17, 24; $35.
- **Yogalates:** Ten-week session, Mondays, noon-1 p.m. at the Rec Hall (Bldg. 317). April 2, 16, 23, 30; May 7, 14, 21; June 4, 11, 18; $50.
- **Zumba**: Seven-week session, Tuesdays, noon -1 p.m. at the gym (Bldg. 461): March 6, 13, 20, 27; April 3, 17, 24. Wednesdays, 5:15-6:15 p.m. at the Rec Hall (Bldg. 317): March 7, 14, 21, 28; April 4, 18, 25. $35/once per week, $70/twice per week.
- **Senior Aqua Aerobic**s: 16-week session, Wednesdays, 9-10 a.m. at the pool (Bldg. 478). March 7-June 20. $80. Advanced registration necessary and cannot be pro-rated.

Participation in BERA events is limited to employees, their adult children, and parents of employees and retirees. Participants should check with their physician before starting any exercise program. Register for a class by sending your name, email address, BNL life/guest number, home phone number, emergency contact name and phone number, and a check for the amount of the class made out to BERA, and mail them to the Recreation Office, Bldg. 400A.

the Bulletin

Published weekly by the Media & Communications Office for the employees, facility users, and retirees of Brookhaven National Laboratory.

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On the Web, the Bulletin is located at *www.bnl.gov/bnlweb/pubaf/bulletin.asp*. A calendar listing scientific and technical seminars and lectures is found at *www.bnl.gov/bnlweb/pubaf/calendar.asp*.

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