the Bulletin

BROOKHAVEN NATIONAL LABORATORY

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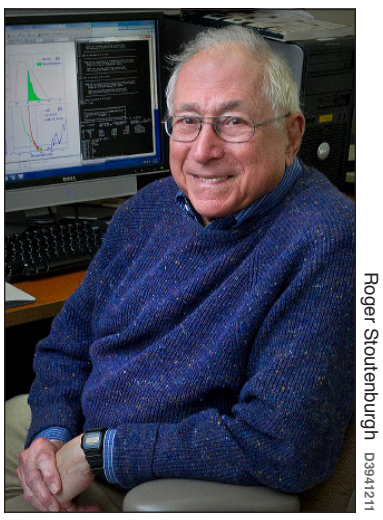
James Cumming Named Senior Scientist Emeritus



Roger Stoutenburgh D3941211

James Cumming, who joined BNL's Chemistry Department in 1954 and retired in 1998, has been named Senior Scientist Emeritus, an honorary designation for scientists who have made particularly noteworthy contributions to BNL's reputation as a world-class scientific institution. Cumming is being recognized for his long and distinguished career at the Laboratory in which he used accelerators to explore and understand high-energy nuclear reactions. He also developed important innovations in methods and instrumentation to study such processes.

"During my 60-year association with BNL — from visits as a graduate student to use unique counting equipment in the Chemistry Department to my work here in 'retirement' — I have seen enormous changes in the scale of science," Cumming said. "Compare, for example, the Cosmotron to the Relativistic Heavy Ion Collider. High-speed computers have replaced the slide rule, and graph paper has become an antique. New instrumentation and radiation detection devices have made difficult measurements routine.

"I do have some nostalgia for the older times of more intimate connection among an experiment, the data, and the scientist, but it has always been fun to work at the Lab. I've been able to work in a broad range of areas, and I am grateful for this recognition."

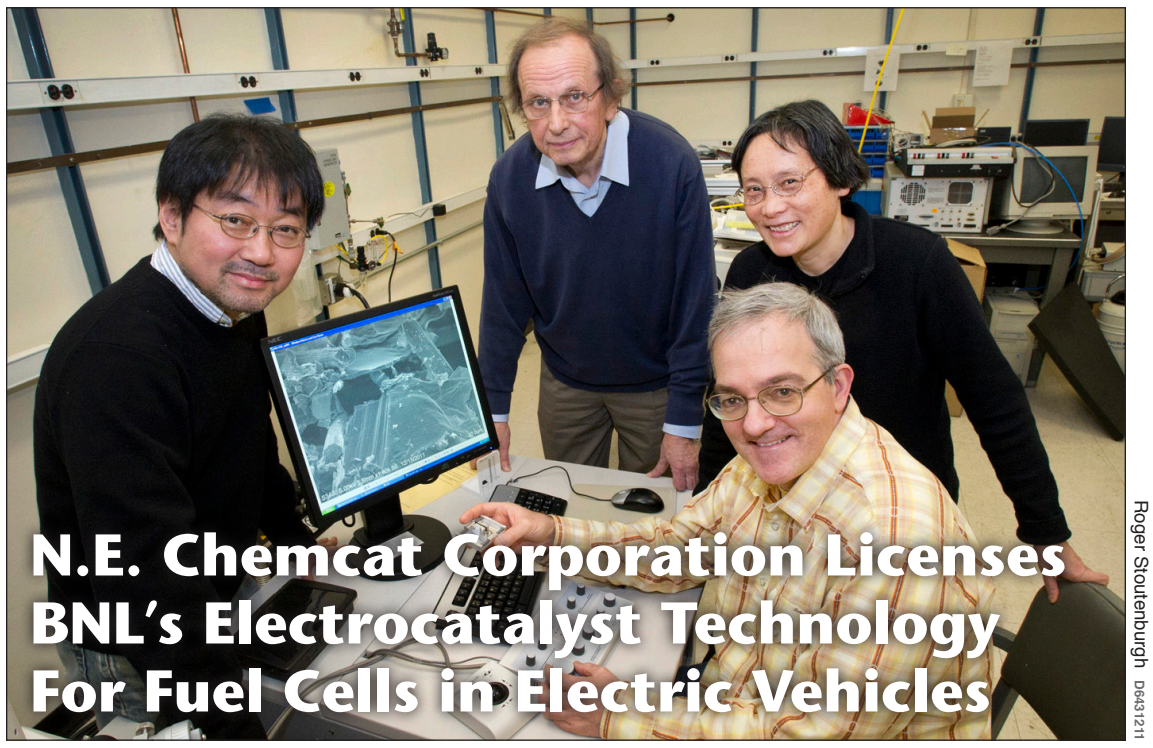
Probing Nuclear Reactions

When Cumming arrived at BNL in early 1954, he joined chemists who, led by Gerhardt Friedlander, were surveying nuclear reaction cross sections at the recently commissioned Cosmotron. A cross section is a measure of the probability that an encounter between a projectile and a target will result in a particular reaction product — crucial information for evaluating reaction mechanisms and of considerable practical value for determining beam intensities and profiles for other accelerator experiments.

When a high-energy projectile interacts with a heavy element, the excited target may break up into multiple small fragments. This "multifragmentation" process was first observed at BNL. Cumming realized that detailed measurements of the energy and angular distributions of these fragments would better identify reaction mechanisms. From these first basic measurements at the Cosmotron to studies of heavy-ion interactions at the Alternating Gradient Synchrotron (AGS), this would be a major thread in Cumming's research.

In the 1980s, Cumming joined online heavy-ion experiments at the AGS. He led the downstream calorimeter group and developed the hardware and software to optimize the performance of ZCAL, the Zero-degree CALorimeter. This detector measures the energy remaining in projectile-like fragments that emerge from an interaction. The ZCAL energy enables...

*See **James Cumming** on p. 2*



Roger Stoutenburgh D6431211

N.E. Chemcat Corporation Licenses BNL's Electrocatalyst Technology For Fuel Cells in Electric Vehicles

Photo above, from left: BNL chemists Kotaro Sasaki, Radoslav Adzic, Miomir Vukmirovic, and Jia Wang work on the recently licensed electrocatalysts using a new electron microscope in their laboratory.

N.E. Chemcat Corporation, Japan's leading catalyst and precious metal compound manufacturer, has licensed electrocatalysts developed by scientists at BNL that can reduce the use of costly platinum and increase the effectiveness of fuel cells for use in electric vehicles. In addition, the license includes innovative methods for making the catalysts and an apparatus design used in manufacturing them.

Platinum is the most efficient electrocatalyst for fuel cells, but platinum-based catalysts are expensive, unstable, and have low durability. The newly licensed electrocatalysts have high activity, stability, and durability, while containing only about one tenth the platinum of conventional catalysts used in fuel cells, reducing overall costs.

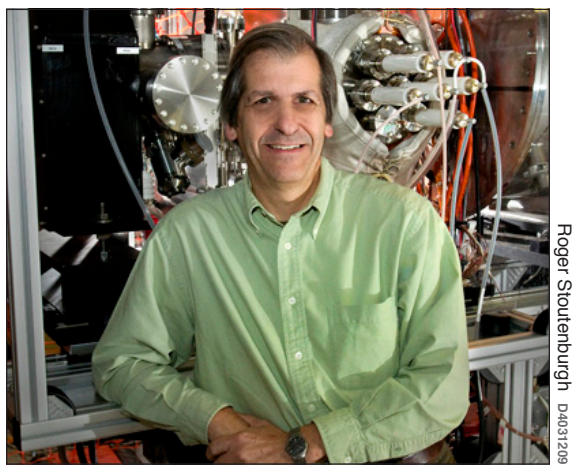
The electrocatalysts consist of a palladium or a palladium alloy nanoparticle core covered...

*See **Electrocatalysts** on p. 2*

Ten BNL Scientists Granted Tenure

Brookhaven Science Associates (BSA) granted tenure to ten 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 and National Security Department; Qiang Li, Condensed Matter Physics and 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 will be featured in alphabetical order, or as photographs become available. The contributions of James Alessi and Hooman Davoudiasl are summarized below.



Roger Stoutenburgh D4031209

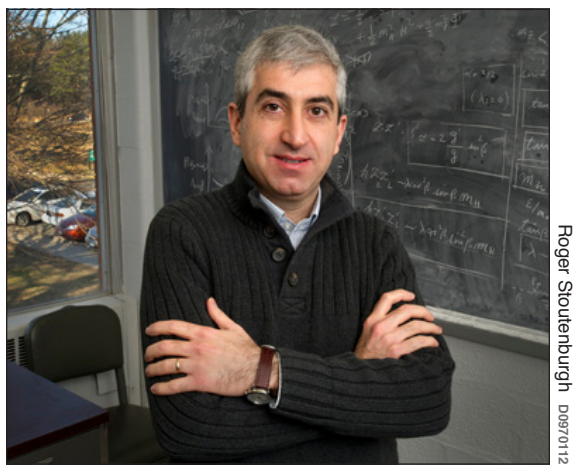
Physicist James Alessi of the Collider-Accelerator Department was granted tenure for his significant contributions to BNL's Alternating Gradient Synchrotron (AGS) and the development of the world's largest and most powerful Electron Beam Ion Source (EBIS), which will soon provide all of the heavy ions for the Relativistic Heavy Ion Collider (RHIC).

Now an internationally known expert in ion sources and linear accelerators and leader of the C-AD Preinjector Group, Alessi came to BNL as an assistant physicist at the AGS in 1979.

His AGS work, specifically his modification of the cathode in its Magnetron H-source that allowed for the production of high beam intensity, made the AGS the world's most intense proton synchrotron for many years. Alessi's continuous work in beam injector developments was essential for the enduring success of the AGS accelerator.

More recently, Alessi led the development of EBIS, which will provide RHIC with the bright, high charge-state ions needed for research. The advancing.....

*See **James Alessi** on p. 2*



Roger Stoutenburgh D0970112

Physicist Hooman Davoudiasl of the Physics Department was granted tenure for his significant and influential contributions to concepts that extend beyond the theoretical framework known as the Standard Model of elementary particles and forces by introducing extra dimensions in space-time and their connections to collider experiments. He plays a crucial role in clarifying the effects of warped extra-dimensional models of space-time.

Within the Standard Model, there is a theoretical wrinkle. Subatomic forces, mediated by the postulated mass-giving Higgs boson, are too strong compared with known gravity effects. Called the hierarchy problem, this conundrum may find more answers in warped, extra-dimensional so-called Randall-Sundrum models and through future findings at the Large Hadron Collider (LHC) at CERN, Switzerland.

Since arriving at BNL in 2006, Davoudiasl has co-authored two important papers relating to the special signatures of warped models that could be discovered at the LHC. With colleagues, Davoudiasl .....

*See **Hooman Davoudiasl** on p. 2*

Joe Libertelli: Lab's New Labor Relations Business Partner

Roger Stoutenburgh D3111011

In a sense, Joe Libertelli has been preparing for his new job as the Lab's Labor Relations Business Partner since the start of his career.

He has been on both the management side and union side. He's been a beat cop, emergency medical technician, statistician, secretary-treasurer for a Teamsters local in New York City and Long Island, and most recently, manager of human resources and labor relations for the Suffolk County Water Authority.

"My work background gives me a different perspective," Libertelli said. "This will help me in my job here, I'm certain. The commonality for all these jobs is they've required consistency, fairness, and honesty."

Libertelli reports to Labor Relations Manager Dave Allshouse and his day-to-day responsibility is to provide Labor Relations support to Lab Protection (Police & Fire Groups), Custodial Services, Staff Services, Building & Grounds, Environmental Protection, and Photography & Production Services. As such, he is responsible for administering labor contracts for all three unions at BNL — the International Brotherhood of Electrical Workers, the Suffolk County Security Police Association, and the United Steelworkers.

"But what's going to help me be successful in this job over the long term will be my ability to earn the trust of the people on both sides of the labor relations equation," he said.

*See **Joe Libertelli** on p. 3*

Controlled Area Postings at RHIC Complex Since Thursday, 1/19

The Collider-Accelerator Department is currently preparing to run the Relativistic Heavy Ion Collider (RHIC), which is expected to operate from mid-January until early June 2012.

Starting on Thursday, January 19, the RHIC complex has been posted as a Controlled Area. This posting includes the north portion of Renaissance Road, Renaissance Circle, the Collider Center (Bldg. 1005S), and its adjacent parking lot.

All personnel must meet the following requirements before entering the posted Controlled Areas. Failure to comply could lead to a Reportable Occurrence and a Price Anderson Amendment Act (PAAA) violation.

1. UNESCORTED ACCESS: requires up-to-date General Employee Radiation Training (GERT) or Radiation Worker (RW-1) and facility specific training.

- Experimenters: Contact the RHIC & AGS Users' Center, Ext. 3333.
- BNL Employees: Contact Ann-Marie Luhrs, Ext. 7007.

2. ESCORTED ACCESS: may be granted by contacting Ann-Marie Luhrs, Ext. 7007. Escorts must complete a Training Waiver Form and the escorted entry must be approved by the Collider-Accelerator Department. Please call at least one day prior to the escorted access. Escorted access must be preapproved for all visitors and deliveries.

As always, all personnel are expected to adhere to the posted requirement.

Attention Mentors:
Request Summer Students Starting Tuesday, 1/31

Beginning January 31, the Laboratory's Office of Educational Programs (OEP) will start accepting mentors' requests for summer students. Funding and departmental capacity to host students is expected to go fast, so submit requests as early as possible.

For more information, visit *http://www.bnl.gov/education* and follow the links for mentors.

***Hooman Davoudiasl** from p. 1*

…proposed, based on a warped extra dimension, models that imply cleaner signatures at the LHC than the original Randall-Sundrum model would achieve.

"Whether or not such models are confirmed by the LHC, from this past work we fully expect that Hooman will be one of the people constructing the models that will define whatever high energy theory becomes, as unequivocal signals of physics beyond the Standard Model emerge experimentally," said Tom Ludlam, Physics Chair.

Davoudiasl, who earned his Ph.D. from the California Institute of Technology in 1998, received a Presidential Early Career Award for Science and Engineering in 2007. His theoretical work is a key element in BNL's 21st Century scientific initiative to make breakthroughs in understanding the mechanics of the universe through particle collisions at the high energy frontier. — Natalie Crnosija

***Electrocatalysts** from p. 1*

…with a monolayer — one-atom thick — platinum shell. This palladium-platinum combination notably improves oxygen reduction at the cathode of a hydrogen/oxygen fuel cell. This type of fuel cell produces electricity using hydrogen as fuel, and forms water as the only byproduct.

Radoslav Adzic of the Chemistry Department, who led the team that developed the catalysts, said, "We are delighted that N.E. Chemcat Corporation has licensed our platinum monolayer electrocatalyst technology. We hope that it will facilitate the development of affordable and reliable fuel cell electric vehicles, which would be very beneficial for the environment since they produce no harmful emissions. Also, the use of nonrenewable fossil fuels for transportation that contribute to global warming would be greatly reduced, prolonging their availability for other uses in the future."

DOE's Office of Science and its Office of Energy Efficiency and Renewable Energy funded research that contributed to these licensed technologies. In addition to Adzic, those who contributed to the research include BNL chemists Jia Wang, Kotaro Sasaki, and Miomir Vukmirovic, and postdoctoral fellows Junliang Zhang and Yibo Mo. — Diane Greenberg

***James Alessi** from p. 1*

…performance of RHIC will enable the study of interactions between elementary particles that could clarify the development of the universe — one of BNL's fundamental scientific initiatives. EBIS is more compact and efficient than BNL's Tandem Van de Graaff injector. It will also be able to produce ion beams, which cannot be produced by the Tandem.

"Over the last three decades, Jim has advanced the state of the art of ion sources and pre-injectors, culminating with the world's most intense Electron Beam Ion Source injector development, thus allowing Brookhaven to stay at the forefront of accelerator technology," said Thomas Roser, C-AD Chair.

Alessi earned his Ph.D. in physics from the University of Pittsburgh in 1979. — Natalie Crnosija

BNL Hosts Two Semifinalists In 2012 Intel Science Contest

Each year, 300 high school students are recognized as semifinalists in the Intel Science Talent Search for their outstanding scientific research. This year, through the Office of Educational Programs' (OEP) High School Research Program, two of the recently announced semifinalists completed their projects with help from BNL mentors Bill Morse and Alistair Rogers.

"Long Island has a long history of producing high school students who are exceptional in the science, technology, engineering, and mathematics (STEM) fields. BNL is proud to partner with the regional schools to produce the next generation of scientists," said Scott Bronson, who manages OEP's programs for students in kindergarten through grade 12.

"This past year, 41 students participated in BNL's High School Research Program, and several projects were recognized for excellence by Intel and Siemens," Bronson added.

Bill Morse's Student David Wu

The Physics Department's Bill Morse mentored David Wu of Port Jefferson Station, a senior at Comsewogue High School, during the summer of 2011. Wu was chosen as a semifinalist in the Intel contest for his project, "A Novel Detector Geometry to Measure the Muon Anomalous Magnetic Moment." Wu worked with a computer simulation program to test the size, shape, and placement for detectors that could be used in future experiments to study unstable, negatively charged, subatomic particles called muons.

"David came up with insights into the problem that I don't think I would have. I could be wrong, but I don't think so," Morse said.

Wu plans to attend college this fall and study computer science or physics.

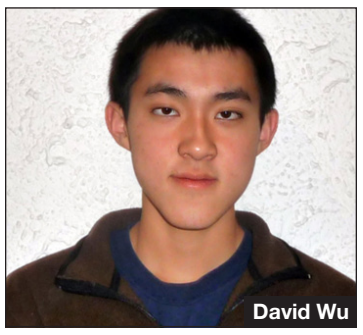
Alistair Rogers' Student Ross Shulman

In the Environmental Sciences Department, mentor Alistair Rogers is now two for two with high school students and Intel semifinalists. Ross Shulman, a senior at John F. Kennedy High School and resident of Bellmore, worked with Rogers during the summers of 2010 and 2011 and was selected for his work, titled "The Impact of Elevated Carbon Dioxide Concentration and Drought on Leaf Nitrogen Content in Soybean." Shulman studied how increasing levels of carbon dioxide in the atmosphere — in combination with projected increased drought — may affect plants and the natural process by which they convert nitrogen from the air into other essential life-sustaining compounds.

"Ross's understanding of the overarching science question and his appreciation of scientific methods showed great maturity," Rogers said.

Shulman plans to study chemistry, environmental science, and political science at college this fall.


Ross Shulman


David Wu

OEP's High School Research Program

Many high school students come to BNL through OEP's High School Research Program. The program gives 11th and 12th grade students an opportunity to work with BNL scientists and participate in ongoing, important research and development programs. Mentors typically host students for six weeks during the summer, but if both mentors and students are able, a project can begin any time.

Mentors consistently note the valuable contributions made by these young researchers. While being an Intel finalist or semifinalist is not the focus for the program, it does happen frequently for these high-caliber students.

Those interested in mentoring high school students, and students interested in participating in BNL's High School Research Program, should contact Scott Bronson, (631) 344-4385, *sbronson@bnl.gov*.

Long Island, New York: Some Place for Science!

Long Island and New York State typically fare well in the national Intel science contest. This year, 61 of the 300 semifinalists were from Long Island schools and 105 were from the state. In comparison, California had the second largest number of semifinalists with 40.

Long Island has a unique community of scientific institutions committed to providing students with a solid education in STEM fields. Brookhaven, Cold Spring Harbor Laboratory, the North Shore-Long Island Jewish health system, and Stony Brook University are all members of the Long Island STEM Hub, an initiative to prepare students to become the high-tech workforce of the future and thereby support economic growth in the region. As a member of Long Island STEM Hub, BNL, with its OEP, is also striving to develop the next generation of scientists and researchers.

What's Next?

Of the 1,839 Intel Science Talent Search entrants, each of the 300 semifinalists receives $1,000, and every school is awarded $1,000 for each of its semifinalists. On Wednesday, January 25, 40 finalists were named to compete this March for the top award of $100,000. Shulman and Wu were not among those selected to continue.

Congratulations to these two semifinalists and their mentors!

— Joe Gettler

***James Cumming** from p. 1*

…subsequent analysis of events on the basis of impact parameter. For example, a low residual energy indicates a violent central collision, and a high energy, a peripheral one.

Going Digital

Cumming also was noted for applying digital computation for the analysis of experimental data. Generations of nuclear chemists had used graphical procedures to resolve complex radioactive decay curves. These were time-consuming and not always reliable. In work starting at New York University's large-scale digital computer, UNIVAC, and continued at BNL, Cumming developed a computer program, dubbed CLSQ, which became a standard tool for nuclear chemists worldwide. It is used in multiple areas, from studies in art and archeology using neutron activation techniques, to assessing drug uptake and clearance, and even in oil-well logging.

A New Facility

In another research area, Cumming, along with BNL's Seymour Katcoff, developed BNL's Chemistry Linac Irradiation Facility (CLIF) to exploit the high current capabilities of the new linac injector to the AGS, which began operations in 1960. Proton and neutron beams in CLIF were used to produce a wide range of new radioisotopes that were studied and characterized. While CLIF has been decommissioned, the Brookhaven Linac Isotope Producer has taken its place, providing commercially unavailable radioisotopes to the nuclear medicine community, industry, and researchers.

An Active Retirement

In his 'retirement,' Cumming works three days a week. Recently, he has collaborated with the Solar Neutrino Group in developing new scintillators for large neutrino detectors such as those that are currently being used at the Daya Bay project in China and in other experiments. He has been a major contributor to several papers from this group and continues to provide data analysis and modeling software.

During the past several years, Cumming has provided valuable service to the Chemistry Department by cataloging, consolidating, and, in some cases, preparing legacy radioactive materials for disposal. These materials remained in the Chemistry Department from the days when nuclear research was a major effort. Many of these were poorly characterized, posing problems for disposal. Based on his extensive "process knowledge," and using an in-house gamma-ray detector, Cumming, working with Joe Vignola, Radiological Control Division, systematically worked through this legacy material. Much of it was prepared for disposal, while some samples were characterized and retained for future use. A complete inventory of the retained samples was prepared.

Cumming earned a B.S. in chemistry from Yale University in 1949, and an A.M. and Ph.D. in chemistry from Columbia University in 1950 and 1954, respectively. He joined BNL as a research associate in 1954, and worked his way through the ranks to become a senior chemist with tenure in 1969. He has been retired since June 1998.

— Diane Greenberg

'Partners in Science' High School Students Partner With BNL Research Library Staff

During the next few months, up to 34 high school students could be visiting BNL's Research Library to use its resources and services in completing their scientific projects. It's all part of the Partners in Science program that the Research Library co-sponsors with the Eastern Suffolk BOCES School Library System — to further students' interest and scholarship in science through using reference and research materials that often are unavailable in schools or public libraries.

This academic year marked the 22nd Partners In Science program held at BNL. On December 8, Research Library staff hosted the 34 students, as well as 12 librarians and teachers, from seven local high schools — Bay Shore, Islip, Longwood, Riverhead, Shoreham-Wading River, South Country, and Southampton. Every year, BNL scientists come to spend part of their day talking with the students and discussing their research interests.

The morning session began with a Library orientation, followed by a lecture by Ryan Tappero, an environmental chemist from the Photon Sciences Directorate. He discussed research using x-ray and electron microscopes to study the molecular speciation of heavy metals in hyperaccumulator plants used for remediation of contaminated soil and sediment. Afterwards, Andrew Ackerman of Photon Sciences and Elaine Lowenstein of Community, Education, Government & Public Affairs hosted tours of the National Synchrotron Light Source experimental floor.

During lunch, BNL scientists Michiko Miura of the Medical Department; Jake Schneider, Chemistry Department; Robert Sweet, Biology Department; Michael Blaskiewicz and Derek Lowenstein, Collider-Accelerator Department; Paul Kalb, Environmental Sciences Department; Peter Johnson, Condensed Matter Physics & Materials Science Department; Robert Palmer, Physics Department; and Mark Sakitt and Peter Yamin of the Director's Office chatted with the students about their own research and research methods.

After lunch the students searched databases and retrieved articles for their own scientific projects with advice from Research Library staff, knowing that they are invited to return for more help at any time. — Liz Seubert

Time to Update '11' Vehicle Stickers

All BNL employees, guests, and retirees who have a blue vehicle sticker beginning with the numbers "11" or under are reminded to update their stickers. If your sticker begins with "12, or 13", you do not have to do anything. To update your sticker, bring your BNL ID badge, driver's license, and vehicle registration to the Badge Office, Bldg. 400, Monday to Thursday, 8:30 a.m. to 4 p.m., and Friday, 8:30 a.m. to 1 p.m. For more information, call Ext. 5690, 2596, 4656, or 5524.

BSA Noon Recital, 2/1

Pianist Nadejda Vlaeva to Perform

Nadejda Vlaeva, an international performer who has given solo recitals and concerto performances throughout Europe and North America, will give a recital on Wednesday, February 1, 2012, at noon in Berkner Hall. Sponsored by Brookhaven Science Associates, the company that manages the Lab, the concert is free and open to the public. All visitors to the Lab 16 and older must bring a photo I.D.

Vlaeva's playing has been acclaimed wherever she has appeared. Her program for BNL includes works by Bach/Saint-Saéns, Liszt, and von Bulow.

Vlaeva's major awards include first prize at the Liszt Competition in Lucca, Italy, and third prize at the International Liszt Competition in Budapest. Her second CD, piano music by Liszt, was released on the MSR Classics label and won the International Grand Prix 'Liszt' du Disque. In 2002, Vlaeva recorded the soundtrack for the documentary film *In Search of Cezanne,* produced by Academy Award-winner Allan Miller. Her recording of Chopin works for piano and orchestra on Gega New was praised for

Photo: Christian Steiner

its extraordinary beauty in *International Record Review*, while a disc titled "A Treasury of Russian Romantic Piano" with works by Bortkiewicz, Medtner, Liadov, Scriabin, Rebikov, Rachmaninov and Lyapunov, has garnered rave reviews in *Gramophone, International Record Review, BBC Music Magazine, American Record Guide* and *Pianist*. Last November, her new CD of Bach transcriptions by Saint-Saéns received five stars and a glowing review, and was chosen as record of the month by *BBC Music Magazine*.

Vlaeva currently resides in New York, where she has performed in the Rose Hall at Lincoln Center, Merkin Recital Hall, and the Weill Recital Hall in Carnegie Hall.

— Jane Koropsak

In Memoriam

Walter Jahnig, who arrived at the Instrumentation Division on December 20, 1965, as a weather technician II, and retired on September 30, 1995, as a technical specialist from what had become the Safety & Environmental Protection Division, died on April 20, 2009. He was 71.

Edward Andersen, who became a metal worker in the Plant Engineering Division on February 7, 1983, and retired on March 31, 1989, died on September 24, 2010. He was 83.

Albert Pinto, who joined the Central Shops Division as an experimental machinist on January 9, 1978, and six months later became a tool & instrument maker, died on June 13, 2011, at the age of 88. He had retired on April 30, 1991.

Samuel Strelecki, who joined the Plant Maintenance Division as a carpenter on February 21, 1966, and retired with the same title on July 31, 1987, died on August 13, 2011. He was 87.

David Barge, who joined the Lab for two years as a junior research associate, starting on July 1, 1954, then worked at the Alternating Gradient Synchrotron (AGS) from September 17, 1962, to August 1969 as an associate physicist, then returned to the AGS on October 12, 1977, as a physics associate I, died at 82 on September 15, 2011. He had retired on September 30, 1984.

Gaylord Wall, who joined the Instrumentation & Health Physics Division on March 21, 1960, as a design engineer II, and retired on June 30, 1986, as a project engineer II, died on September 16, 2011. He was 89.

Mary Iarocci, who joined the Medical Department as a medical services assistant II on January 7, 1963, and retired as a research services associate II on December 5, 1971, died at age 90 on November 11, 2011.

Pierre Mercier, who joined the then Plant Maintenance Division on November 30, 1964, as a facilities engineer II and retired as a design engineer on May 8, 1981, died on November 17, 2011, at the age of 92.

Arrivals & Departures

— Arrivals —

Thomas Anderson	NS&T
Justin Eure	CEGPA
Xiang Leng	CMPMS
Mingzhao Liu	CFN
Victor Smalyuk	Photon Scis

— Departures —

Elinor Adams	Int Audit
Leif Ahrens	C-AD
Raymond Atkins	C-AD
Robert Barone	Busin. Ops
Marsha Belford	CEGPA
Aramentis Brown	PPM
Roy Butler	Mod Proj.
Albert Casper	C-AD
Shu Cheung	Photon Scis
Vanette DeJesus	PPM
Russell Dietz	Env Scis
Linda DiPierro	HR/OMC
Mary Durham	Busin. Ops
Robert Eich	C-AD
Cora Feliciano	Physics
Thomas Gilbert	Lab Protec
Joseph Glenn	C-AD
Diane Greenberg	CEGPA
Kathleen Gurski	CEGPA
Marion Heimerle	C-AD
Myron Henderson	PPM
Nanci Hoey	HR/OMC
Nicholas Houvener	F&O
Linwood Johnson	Staff Servs
Keith Jones	Env Scis
Kenneth Krasner	Photon Scis
Claire Lamberti	Comp Sci
John Lee	Sust En Techs
Anthony Lenhard	Photon Scis
Beth Yu Lin	Biology
Ronald Longacre	Physics
Alfredo Luccio	C-AD
Fredrick Maier	Site Res
Breffni Medcalf	Physics
Richard Melucci	Busin Ops
Swapna Mukherji	Mod Proj
George Murdock	C-AD
Brent Nelson	C-AD
Charles Nielson	Photon Scis
Charlotte Nielson	Photon Scis
Peter Palamidis	F&O
Peter Popken	C-AD
Indhira Ramirez	Busin Ops
Kathleen Ratto	Photon Scis
Richard Reciniello	Rad Contr
Lydia Rogers	Photon Scis
Lowell Ross	En&Utils
John Strahmann	Waste Mngemt
Frank Terrano	Photon Scis
Jacqueline Timko	Physics
Thomas Timko	Mod Proj
Phyllis Tinsley-Smith	Biology
Alanson Warren	En&Utils
Sebastian White	Physics
Joseph Zebuda	C-AD

Joe Libertelli from p. 1

Libertelli has a bachelor's degree in business and economics from the State University of New York Empire State Long Island Campus as well as a master's degree in labor and policy from the State University of New York Empire State Saratoga Springs Campus. He also has an MBA in management and leadership from Dowling College, and several advanced human resources and labor certificates, including a Senior Professional in Human Resources (SPHR) designation from the Society for Human Resource Management.

But the credentials and resume don't tell the full story.

"When I was still a police officer, I had the opportunity to work as a community affairs officer, which put me right into the heart of some of the most contentious issues for the department and members of the community," he said. "At first I was uncertain how I would do in that job but I learned I had a real interest in how people relate to each other. Above all, I believe in fairness. People knew me for my fairness then and I expect that's how they will know me here, too."

Libertelli feels he has come full circle with his work at the Lab in many ways. While he is originally from Whitestone, Queens, he and his wife have been living in Suffolk County for many years, first in Southold and now in Bayport. Also, his grandfather and namesake Joseph Libertelli trained at Camp Upton in 1917 and deployed with the 77th Division, fighting in the Argonne Forest with the "Lost Battalion."

"So for many reasons, I'm very happy to be here, and I look forward to working closely with the unions and everyone else here at the Lab," he said.

— Will Safer

Calendar

— WEEK OF 1/30 —

Wednesday, 2/1

***BSA Noon Recital**

Noon. Berkner Hall. Pianist Nadejda Vlaeva, will play Bach, Liszt, and more. (See below.)

— WEEK OF 2/6 —

Wednesday, 2/8

Employee Assistance Program Talk

Noon. Berkner Room B. Nancy Losinno will speak on children's sleeping problems. Seating is limited, so register in advance: *nlosinno@bnl.gov*.

— WEEK OF 2/13 —

Tuesday, 2/14

Information Session for Weight Loss Program

Noon. Large conference room in Bldg. 490. Learn about this intensive structured 12-week weight management program. Focus on lifestyle, exercise, attitudes, relationships and nutrition. This program is open to eligible employees. Register in advance: call Michael Thorn, Ext. 8612.

Wednesday, 2/15

Blood Drive

9:30 a.m. until 3 p.m. Brookhaven Center (Bldg. 30). Details and registration form online: *http://www.bnl.gov/hr/blooddrive/*.

BSA Noon Recital

Noon. Berkner Hall. Opera from Stony Brook. Peter Brook's adaptation of *La Tragédie de Carmen*, with conductor Tim Long. Free and open to the public. Visitors to the Lab of 16 and older must carry photo ID.

475th Brookhaven Lecture

4 p.m. Berkner Hall. Tom Watson of the Environmental Sciences Department will speak on "A Really Good Hammer: Quantification of Mass Transfer Using Perfluorocarbon Tracers." All are welcome to this free lecture, open to the public. Refreshments will be served before and after the talk. Visitors to the Lab of 16 and older must carry photo ID.

— WEEK OF 2/20 —

Monday, 2/20

President's Day: Lab Closed

No Bulletin on February 24.

— WEEK OF 2/27 —

Monday, 2/27

IBEW Meeting

6 p.m. Centereach Knights of Columbus Hall, 41 Horseblock Rd., Centereach. A meeting for shift workers will be held at 3 p.m. in the union office. The agenda includes regular business, committee reports, and the president's report.

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

2011 United Way Campaign Update

By Bob Lincoln, United Way Campaign Chair and Chief Human Resources Officer

You may have seen the sign near the main gate announcing that we raised 100 percent of our goal for the 2011 United Way campaign. As great as it is to meet our $145,000 goal, I'm even more proud to announce we far exceeded it — for a total of $193,132.98. That's a lot of money that'll do a lot of good for Long Islanders in need. I want to thank every person who made a pledge or participated in a fundraising activity to make this happen.

Send a Love Note to Your Valentine — by 2/6

Is there a special message you'd like to send to your valentine? Are you looking for a valentine? You can have your Valentine's Day message printed in *The Bulletin* on Friday, February 10.

E-mail your 15 – 20 word "love note" to *bulletin@bnl.gov* with "For Valentine's Day" in the subject line by Monday, February 6. If you use interoffice mail, send your note to Liz Seubert at Mail Stop 400C. You must include your name, life number, and extension or home phone number, but your name will not be printed unless it is clearly part of the message. Copy must be deemed tasteful. All "love notes" will be accepted at *The Bulletin's* discretion.

Classified Advertisements

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

08 HONDA CIVIC – 44K mi. 4cyl, 4dr, a/t, a/c, p/s, p/w, p/l, am/fm, MP3, CD, tilt wheel, eng, ABS brakes in excel cond, v/gd tires. $14,334 neg. 339-3444.

04 NISSAN SENTRA 1.8 S – 85K mi. 4cyl, 4dr, a/t, a/c, p/s, p/w, p/l, am/fm, MP3, tilt wheel, eng, brakes excel, v/gd tires. $6,300 neg. Sumanta, Ext. 4126.

03 TOYOTA HIGHLANDER – 69.5K mi. v/clean, well maintd, orig owner, V6, awd, s/roof, new tires, brakes, batt, excel in snow, rem start. $11,000 neg. 697-6383.

01 CHRYSLER SEBRING CONVERTABLE – 105K mi. gar since I have owned it. $2,600 neg. Madeline, 744-5069.

00 VW PASSAT GLS – 167K mi. lthr, 5 spd man, s/roof, heatd seats, CD chngr, ext grt shpe, needs reprs: w/shield/ABS module/fr whl beargs. NYS insp. $3,000 neg. 484-9888.

00 ISUZU RODEO 4X4 – 102K mi. blk w/tan int, v/clean, competely rebuilt eng, <1000 mi, new tires/exhaust. $3,750 neg. 681-9800.

98 VOLVO V70 – 104K mi. station wagon, 2.4L 5cyl DOHC, 5spd man, a/c, p/s, 4wheel ABS, new exh syst, v/gd cond. $2,000 neg. Ext. 2215, 689-0415.

95 BUICK LESABRE – 91K mi. Runs/lks grt, new parts: batt, brake lines, eng mounts, water pump, struts, a/c, new usb/mp3 am/fm CD player, excel int, $2,900 neg. Ext. 3932.

88 CHEVY K5 BLAZER – 146.739K mi. full sz K5 4x4 gry/blk, new brakes, rec. tune-up, coolnt flush, runs well, new trans, transfer case, 33" Mt tires. $1,400 neg. 484-9888.

74 VOLKSWAGEN BEETLE – fully restored w/new paint, interior and eng, excel cond, photos avail, great gas mi. $5,750. Ext. 2913 or guida@bnl.gov.

47 STINSON 108-1 – Fully metalized, Scott T/W, vert. card compass, 4 plce intrcm, more, Franklin 150, 2522 TTAF/1182 SMOH. $20,000 neg. Justine, Ext. 2114.

CUSTOM RIMS – w/Sumitomo Tires; 205/402R17; 80W, 4 lugs, fair cond, $150/obo for set of 4. Ext. 7961, gunther@bnl.gov.

Boats

14' ROGUE RIVER CANOE – hard durable plastic, 3 seats, built-in cooler, drink holders, paddles, life vests, new was $430. Pics. $250 neg. Ext. 5588, howe@bnl.gov.

Furnishings & Appliances

CABINETS – Approx 10, Oak wall, v/gd cond, ideal for bsmt/gar/shed storage/$100. 909-7080, lilady007@optonline.net.

COUCH – Sealy, 3'x 8' Loveseat w/Scotchgard, barely used, 9 pillows, excel cond, $475. Barbara, 742-3239.

DRESSER – tall 5 drawer oak/$25. Linda, Ext. 2383 or lsatalino@bnl.gov.

FIREPLACE – elect corner unit brick facade w/brass drs, v/gd cond, $125/both, must sell. Ext. 2198, 909-7080 or lilady007@optonline.net.

KITCHEN TABLE, 4 CHAIRS – Oval Oak Veneer kitch table, has insert to comfortably seat 6, $100/obo, u-pic-up. Bill, Ext. 7961 or gunther@bnl.gov.

PLATFORM BED & MATTRESS – Full unpainted wooden bed, Serta Galloway mattress, both grt cond. $100 OBO for both. Can text picture to yr cell. 645-7707.

SOFA – 84" fold-out sleeper sofa w/flower print/$100/neg. Ext. 2897.

TWIN BED BOXSPRING & FRAME – excellent cond. You pick up $50 for both or will sell separately. Lloyd, Ext. 5225.

Audio, Video & Computers

CD RACKS – I have 3 CD racks for sale. 2 are single and hold approx 50 CDS the other is adjustible & holds 150. All oak colored. Lloyd, Ext. 5225.

HP INKJET CARTRIDGES – 2 black: 56 (C6658A); 2/color: 28 (C8728A), and 57(C6657A), $10/ea, orig, unopened pkgs. 566-8261.

KINDLE TOUCH 3G – new in unopened box/$120. Frank, Ext. 4991 or frankt@bnl.gov.

MONITOR, PRINTER, WIRELESS – Dell E172FPb 17" LCD Monitor/$40, HP Photosmart C3180 printer/scanner/copier/$40, Linksys WMP110 wireless PCI adapter/$20, Linksys WPC54G Wireless-G Notebook Adapter/$20. giordano@bnl.gov.

TOSHIBA TV – 27" CRT flat screen CRT tv, conponent and S-video inputs, works very well/$60. Jim, Ext. 7460.

Sports, Hobbies & Pets

BICYCLE – Trek Mountain Track 220 (for boys), 18 gears, 24" tires, vg cond, bought new for $270. Pics. $125 neg. Bob, Ext. 5588 or howe@bnl.gov.

BICYCLE – Huffy 26" Ladies mountain bicycle - granite color - brand new. $100. Mary, Ext. 6344 or phraner@bnl.gov.

FLY ROD – new G. Loomis Shorestalker, 7wt 8'6", 4 pc, great for sm/lg/mouth striped bass, bluefish, incls rod tube for travel, ask/$225. sbronson@bnl.gov.

HOCKEY SKATES – 3/prs, CCM Champion 90 size 4, excel cond/$20; CCM Ultra 100 size 1, excel cond/$20; Bauer size 5 fair cond/$5. Ext. 5588 or howe@bnl.gov.

JAYCO 2011 TRAVEL TRAILER 29' – loaded; upgrdd A/C, under bdy insulatn, mag whls, 7 yr ext. transferable warr, sat TV, AM/FM/CD stereo, $18,490. 872-5074.

POOL TABLE & ACCESSORIES – Sears, Mizerack, 4'x7', excel cond, $200. 766-6682.

XC SKIS & BOOTS – skis/190cm long, boots sz 6, $25/all. Robert, Ext. 4637 or lockey@bnl.gov.

Tools, House & Garden

ARTIFICIAL CHRISTMAS TREE – Harrow's, excel quality, branches 3/4 way to grd, blue spruce blue/green color, 7.5', pics avail/$75. Ext. 5290.

HONDA MOWER – v/gd cond/$39; pwr washer/$10. 882-0840.

SNOW BLOWER – Craftsman single-stage, 21", 3.8 hp Tecumseh, $75. Jay, jadams@bnl.gov.

Miscellaneous

BACKPACK CHILD CARRIER – unused Snugli Cross Terrain model, for 6 mos + & 16 to 40 lbs, ask/$50. sbronson@bnl.gov.

BASSINET – w/one matching sheet plus 6 beige sheets, all like new/excel cond/$40. Ext. 7007 or luhrs@bnl.gov.

DVD – *Eat Pray Love*, $5, new/unopened. Ext. 5322.

SUITCASE – 28"h x 18"w lg rolling w/retractable handle, 10.5"d expandable to 14.5", $15, pics avail. Michell, Ext. 2541.

Car Pool

PLAINVIEW LIBRARY – Established carpool needs 4th, 8 am- 4:30 pm, leave Plainview Old Bethpage library @7:15 Elliott Ext 2495, Pat, Ext 6195. Leon, Ext. 2682.

Community Involvement

DONATIONS FOR ANIMAL SHELTER – Seeking donations for Brookhaven Animal Shelter. Blankets/ sheets/ towels/ stainless bowls/new nyla bones/cans of dog or cat food. Will p/u @ your bldg. Thanks. Jane, Ext. 4909 or jane@bnl.gov.

EARLY MUSIC ENSEMBLE – Come play Renaissance music once weekly during lunch hour. Guitarists (or lutenists), percussionists, and winds wanted. All skill levels. Violinists & violists need not apply. Justine, Ext. 2114.

Lost & Found

ITOUCH IPOD – lost, was in black velcro armband workout pouch w/pink breast cancer awareness ribbon decal. Headphones usually plugged in and wrapped around case, black/silver back. Thomas, Ext. 5740.

Wanted

ADOPT-A-PLATOON – Monetary donations gratefully accepted towards mailing shipments to our platoon overseas and to send goodie packages to BNL family members. Thank you. Joanne, jrula@bnl.gov.

BNL FAMILY MEMBERS IN MILITARY – If you have a family member that has been deployed overseas, please contact Adopt-a-Platoon so we may send them a goodie package. Joanne, jrula@bnl.gov.

QUEEN HEADBOARD – & if you have a queen mattress that would be great! Thank you. Rick, Ext. 3005, rbuono@bnl.gov.

USED BAR STOOLS – looking for 5-6 matching bar height stools &/or 3 bar height backless stools, reasonable. Ext. 5218.

For Rent

KISSIMMEE, FL – 1/bdrm unit, sleeps 4, avail Easter wk - Apr 8-15, Sheraton Vistana Villages. $350/wk. 813-0497.

ORLANDO, FL – Spend a week in a Marriott Timeshare near all Orlando attractions, 2 bdrms, 2 baths, full kitch, sleeps 8, You can choose the week you want!. $1,500/wk. 873-8959.

SPRING HILL, FL – part furn if desired, short term possible, lg lot on cul-de sac, no smkg/pets. $850/mo. 352-688-9136.

SPRING HILL, FL – priv ranch on Gulf, 70m Orlando, 45m Tampa, fly Islip direct, nr beach/tennis/park, 3/bdrm, 2/bath, d/r, f/p, 2gar, igp, fruit trees, see review.oktane.net/HouseTour. $950/mo. 344-5537.

BELLPORT – Two story classical Colonial, 3 Bdrm, one bath, centl air, 2-car garage. Available March 2012, fully furnished, incl. all utils, TV & internet. nonsmoker/no pets. $1,750/mo. 917-892-1170.

BROOKHAVEN HAMLET – rm in 3 br hse, looking for professional, non-smkr/drinker, 10 mins to BNL, leave msg. $600/mo. incl utils. Danny, 294-7505.

CALVERTON – 1 bdrm bsmt w/lg glass dr entry, l/r kit w/pantry lots of cabinets, full bath, f/p, lg storage closet incl util. $1,000/mo. 764-8001.

CALVERTON – single fam home, 2b/r, 2ba kitch, d/r, lrg l/r w/vaulted ceilings, shed, no smkg/pets, refs & cc reqd, 2mos at signing, +util, avail 2/1. $1,800/mo. Ext. 3438.

CORAM – 2 bdrm, eik, l/r, grd level, priv ent, fenced yd, util incl, no smkg/pets, 10-15 min to Lab. $950/mo neg. 902-0602.

MIDDLE ISLAND – ArtistLake Dr, 7 min to BNL, 1 lg bdrm, upper flr, 900sq ft, no pets. $1,100/mo. Lei, 516-225-3306.

MORICHES – female to share my condogated, furnd b/r, pv bath, w/d, kit share, incls util, no smkg/pets, avail now, 1 mo sec. $950/mo. Ext. 2746 or scrick@bnl.gov.

RIDGE – 1 bdrm, l/r, kitchenette, full bath, sep ent/prkg, util incl, quiet neighborhd, mins to Lab. $975/mo. Lynne, 924-0002.

RIVERHEAD – 3bdrm 1.5/bath Western Ranch, kit w/dw, l/r,d/r, w/d & gar, new windows & furnace, quiet, nr shops, no smkg/pets, refs & cc reqd, 2mos at signing, +util, avail 2/1. $2,250/mo. 512-6470.

ROCKY POINT – Unique bi-level, newly renov home nr beach, 2 bdrm/2 ba, lg l/r w/fp & waterview, granite kit, office, w/d, no smkg/pet, 1.5 mo sec +util. $1,900/mo. 744-1206.

SHOREHAM – 1 bdrm, furnd, new garden apt, grnd flr, indep. entr/drwy/prkg, full ba, kit, l/r, cac, no smkg/pets, 1 mo sec, all util incl, single only, avail Feb 22. $1,150/mo. 566-8261.

SOUND BEACH – spotless, quiet, 2/3 bdrm, 2 ba, fam rm, huge eik, 1 car gar, lg corner lot in MPSD, all appl, new bath/paint/windows/heat sys, owner pays lawn main. $1,800/mo. 516-650-3852.

SOUND BEACH – 3 bdrm hse, l/r, d/r, 1.5 baths, lg yd, gar, Miller Place SD, utils sep. $1,600/mo. Jim or Liz, 744-7798.

ASCUTNEY, VT – 1/wk at ASCUTNEY Mountain Resort, check in Feb 17, Presidents wk, 2/bdrm Timeshare w/kitch . $950/wk. 513-1619 or muller2@bnl.gov.

For Sale

ORLANDO, FL – Beautiful Time Share at Westgate Vacation Villas. One mi to Walt Disney World. Week No. 7 (Presidents' week). Sleeps 10 people w/ loft. $4,900 neg. Charles, 516-521-3733.

SPRING HILL, FL – priv ranch on Gulf, 70m Orlando, 45m Tampa, fly Islip direct, near beach/tennis/park, SW architecture, 3/bdrm, 2/bath, d/r, f/p, 2gar, igp in lanai, fruit trees, see review.oktane.net/HouseTour. $125,000 neg. 344-5537.

CALVERTON – Move in, single family cape has 2bdrm, 2bth, kitch, d/r, lrg l/r w/vaulted ceilings, shed, quiet, yet just mins away from all. $271,000. 831-0152.

RIDGE – Colonial, 4 Br, 2.5 Ba, New Roof, Windows, Siding, Kitchen Cabs, Updated Ba, Crown Moldings, Wood Fl, Fp in Den, Beaut Grounds, Lg Bdrms, 1 acre - Potential Horse Prop. $379,990. Ray, 344-3541.

WEST BABYLON – 3 bdrm inline ranch, attchd 1 car gar, full fin bsmt w/wet-bar, renov kitch w/granite countertops, new appli, central vacuum and igs. $339,000. 539-6687.

In Appreciation

Our sincere thanks to all our BNL friends for your expression of sympathy during the recent loss of our father. We are forever grateful for your kindness and support. — Darlene & Mark Peragine, Dawn Schick & John Lara.

Many thanks to everyone for your good wishes and thoughtful retirement gift. My 13 years at BNL will never be forgotten. All my best. — Kathy Gurski

To my BNL colleagues: Thank you for the warmhearted sendoff and thoughtful gifts. I'm enjoying retirement, but I miss all of you. — Diane Greenberg

Thanks to all my friends and colleagues for the wonderful sendoff and gifts upon my retirement. It has been a great 21 years. Good luck to all of you. — Ken Krasner

Environmental and Safety Audits, 2/6-17

By Bob Lee, Ed Nowak, and John Selva

Simultaneous excellence in science and operations is crucial to our continued success. As part of this effort, the Lab will conduct three concurrent audits from February 6 to 17. We'll conduct a self-assessment audit of our Environmental Management System (EMS) and Occupational Safety and Health Management System (OSH), and also complete a Multi-topic Environment, Safety, and Health Compliance Assessment. Chemical and electrical safety, as well as hazardous material storage and environmental emissions management, are among the audits' focus areas this year.

What is your role and responsibility during these audits?

- You may be randomly approached and interviewed by an audit team member.
- You should be prepared to answer an auditor's questions about the Lab's ESSH Policy. Take a moment now to review it.
- You must know the ESSH aspects and hazards associated with your specific job as well as the consequences that could result from performing work outside established controls.
- You should have a questioning attitude about the ESSH aspects of your job and they should be part of your ongoing dialogue and work planning activities with supervisors, peers, and staff.

How can I learn more?

For more information about these programs or the audits, 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; Safety & Health Representative.

You can find contact information for your EMS Representative, ECR, OSH Representative, and Safety & Health Representative in SBMS under "Contact List."

- Bob Lee, EMS Management Representative, *blee@bnl.gov*
- Ed Nowak, OHSAS Management Representative, *enowak@bnl.gov*
- John Selva, EMS/OHSAS Program Manager, *selva@bnl.gov*

Safety makes science possible at Brookhaven National Laboratory
http://intranet.bnl.gov/safety

BERA News, Upcoming Trips

Tickets and arrangements are for the benefit of BNL/BSA employees, users, guests and their families. To make reservations, register and pay at the BERA Store in Berkner Hall, Monday through Friday from 9 a.m. to 3 p.m. Tickets are non-refundable, and those younger than 21 must be accompanied by BNL employee/parent. Buses depart from the Brookhaven Center (Bldg. 30), unless noted otherwise.

- **Knicks vs. New Jersey Nets:** Sunday, 2/20, at Madison Square Garden. Leave BNL at 4 p.m. and leave to return after game at about 10:30 p.m. Seats in Section 300 and game time is 7:30 p.m. $85 includes ticket, bus, and driver tip.
- **Mohegan Sun With New England Tours:** Saturday, 3/3, in Connecticut. Cost is $43 per person, includes bus, driver tip, $15 buffet voucher, and three $5 slot plays. Must be at least 21 years of age for this trip. Leave BNL at 7:45 a.m. for 9 a.m. ferry in Port Jefferson. No exit 63 pick up, all others must meet at the ferry parking lot and be on bus before it boards ferry by 8:30 a.m. Depart Mohegan Sun at 6:30 p.m. for the 8 p.m. ferry.
- **Knicks vs. Detroit Pistons:** Saturday, 3/24, at Madison Square Garden. $85 includes ticket, bus, and driver tip. Seats in Section 300 and game time is 7:30 p.m. Leave BNL at 4 p.m. and leave to return after game at about 10:30 p.m.
- **Ringling Brothers and Barnum & Bailey Circus:** Sunday, 3/25, at Nassau Coliseum. $40 per person, adult or child. Children under age two who sit on a lap are free. Leave BNL at 9:30 a.m. and leave after the show at about 1 p.m.

Pool/Gym Hours

The Pool will be closed for maintenance all day and night on Friday, February 17. The gym will be open as usual that day, but all facilities will be closed from Saturday, February 18, through Monday, February 20, in observance of President's Day.

BERA Board Seeks Nominees

All employees of Brookhaven Science Associates wishing to be considered as a candidate for one of the four available positions for the 2012 BERA Board election must contact one of the board members listed below no later than Friday, February 10. All interested nominees must notify and seek approval from their immediate supervisor prior to seeking candidacy in order to participate in the monthly meeting obligations. Need more information about what being a BERA Board member entails? Call one of the current members to discuss this.

Current BERA Board Members

- Linda Barrett: Ext. 5165, *lbarrett@bnl.gov*
- Phyllis D'Avanzo: Ext. 2986, *domenech@bnl.gov*
- Ruth Comas: Ext. 3545, *comas@bnl.gov*
- Pat Flood: Ext. 7886, *flood@bnl.gov*
- Augie Hoffman: Ext. 3884, *ahoff@bnl.gov*
- Helen Savage: Ext. 2531, *hsavage@bnl.gov*
- Rick Wagener: Ext. 5886, *wagener@bnl.gov*
- Susan Wells: Ext. 7427, *swells@bnl.gov*

the Bulletin

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Liz Seubert, editor
Joe Gettler, assistant editor
Roger Stoutenburgh, photographer

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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