

Roger Stoutenburgh D1408911

BNL's Suresh Babu Honored With Gas Technology Institute's 2011 Don Klass Award

Suresh Babu, a Manager in BNL's Global & Regional Solutions Directorate, has received the Gas Technology Institute's (GTI) Don Klass Award for Excellence in Thermochemical Conversion Science. He was honored at the organization's conference dinner at the Art Institute of Chicago on September 28.

GTI is a nonprofit research and development organization that develops, demonstrates, and licenses new energy technologies, with particular focus on the natural gas industry. Thermochemical conversion science refers to the conversion of biomass to fuel, chemicals, and power.

With 38 years of research and development experience in advanced coal and biomass energy conversion, Babu joined the Lab in 2010 as a senior program and business development manager. He is currently developing a biomass thermochemical conversion research program at the Lab to explore innovations in efficient and economical conversion of biomass to fuels, chemicals, and power in the northeastern U.S.

"I chose to join Brookhaven Lab because of its excellent facilities, including the Center for Functional Nanomaterials and the National Synchrotron Light Source, and its expertise...

See *Suresh Babu* on p. 2



Roger Stoutenburgh D2580711

Medal of Science Winner Joanna Fowler To Speak on PET, Addiction, 10/27

Joanna Fowler, a senior chemist and Director of Radiotracer Chemistry, Instrumentation, and Biological Imaging at BNL, will give a talk titled "Positron Emission Tomography and Diseases of Addiction" on Thursday, October 27, at 4 p.m. in the Hamilton Seminar Room, Bldg. 555. Sponsored by Brookhaven Women in Science, the public talk is free, and no registration is required. All visitors to the Lab age 16 and over must bring a photo ID.

Fowler has made significant contributions to brain research and the understanding of diseases such as addiction, which she studies using positron emission tomography (PET),

an imaging technique that measures the concentration and movement of a positron-emitting radioisotope in living tissue. When the radioisotope is incorporated into a molecule that is targeted to a specific element in a cell, such as an enzyme, or incorporated into a drug molecule, PET can provide information on biochemical changes or the movement of drugs in the living human body — including the brain, which is important for investigating addiction.

In 1976, Fowler and colleagues synthesized 18F-fluorodeoxyglucose (FDG), a PET radiotracer. Today, FDG is widely...

See *Joanna Fowler* on p. 2



Roger Stoutenburgh D2851011

SCIENCE, SAFETY, BLUEPRINT & BUDGET

Notes From the All-Employee Meeting With Lab Director Sam Aronson, 10/10

Watch video from the meeting, download presentation slides, and more:

http://www.bnl.gov/today/story.asp?ITEM_NO=2646

Brookhaven Lab's strategic plan, safety, Blueprint, and budget were the main topics of discussion at the all-employee meeting with Laboratory Director Sam Aronson on Monday, October 10. Hundreds of BNLeers gathered in Berkner Hall or streamed live video online for the Director's look back at fiscal year 2011 (FY11) — which began on October 1, 2010, and ended on September 30, 2011 — as well as his views for Brookhaven's future.

Safety Performance Update

"Fixing our processes, our way of doing business, our attention on what we do to reduce the number of people who get hurt has to be at the top of mind for all of us," Aronson said as he began the meeting.

There were more injuries in FY11 than FY10, he explained. A leading cause of injuries in FY11 was the heavy winter weather. No one was hurt during the cleanup, but some injuries resulted from slips, trips, and falls, as well as lifting bags of ice melt. However, the bad winter alone does not explain the increase over 2010.

Aronson next discussed a recent incident involving the transport of radiological materials on site. No health or environmental impacts resulted from it, but it was a serious event that could have produced such impacts and the Laboratory is implementing a number of Lab-wide stand-downs to review policies, procedures, and training for how this work is carried out. Read more about the incident in the Monday Memo of October 10: <http://intranet.bnl.gov/memo/mm.asp?IssueId=203&StoryId=2>.

Aronson also spoke about the need for members of the Lab community to provide continuous feedback during all steps of a work process.

"That should lead to more conversations among workers, engineers, managers, and planners — which should result in continuous improvement in the Lab's safety performance," he said.

Blueprint Update

"The Blueprint is a very broad menu of improvement activities aimed at making the Lab's operations more effective, more efficient, and able to accommodate a growing menu of work," Aronson said.

During FY11, the Laboratory instituted the Integrated Facility Management program (IFM); leadership development and training; succession planning; and new field-deployed business models for safety, business operations, and human resources

through the Blueprint. Several competitiveness improvement projects were also successful in improving our processes and preventing unnecessary work, Aronson said.

Aronson also explained that a number of Blueprint projects were evaluated for effectiveness in FY11. He focused on the IFM program, which was reviewed by both a peer group and the Lab community in a customer service survey.

Aronson said that this is a long-term effort and that over time, the successes already being seen will continue as start-up problems are overcome.

Aronson added that he wants Blueprint projects not only to get finished, but make a change in the Laboratory, so we know how to carry on into the future.

The Strategic Plan

Aronson began his discussion of the Laboratory's 10-Year Strategic Plan by highlighting BNL's progress in continually advancing its capabilities, which can be seen in the development of the National Synchrotron Light Source II, Interdisciplinary Science Building, Electron Beam Ion Source, and Long Island Solar Farm.

"Our vision is what we want to be, our mission is what we want to do, and strategy is how we're going to do it," Aronson explained. "We want to be the best laboratory in the DOE system, the provider of choice for the science that supports the Office of Science's mission."

The Laboratory's mission is made up of several components. It includes advancing photon sciences, energy, and environmental-related research to contribute to solutions to the nation's critical problems of the 21st century. The mission also includes advancing fundamental research in nuclear and particle physics to gain a deeper understanding of matter, energy, space, and time.

Aronson then detailed the Laboratory's five major activities: Photon Sciences; Quantum Chromodynamics (QCD) Matter; 21st Century Energy Security; Physics of the Universe; and Climate, Environment, and BioSciences. He also told the audience how BNL is collaborating with institutions on Long Island and across New York State

to connect entrepreneurs with new technologies that are ready for market. In FY11, the Lab had 34 records of invention and Brookhaven has worked with the DOE to create more flexible partnership arrangements with industry in order to accelerate the deployment of the national laboratories' discoveries.

Before moving on to discuss the budget, Aronson congratulated the more-than-30 Brookhaven scientists who had received prestigious awards in FY11.

More information about the Laboratory's strategic plan and major activities that will enable the Lab to reach its mission is available on the 10-year Strategic Plan website: <http://www.bnl.gov/10yr-plan/>.

Budget

The Laboratory is operating under a continuing resolution with the federal funding at last year's levels until November 18, Aronson said as he discussed the Lab's budget.

"Flat is the new sign of success in the world. We have to be looking at contingency plans in the case of less-than-flat funding," he explained. "There have been instructions to all federal agencies in the last month to look at significant decreases in funding...we have to be ready for that."

Aronson then noted that as the DOE makes its own preparations for flat or less funding, other projects such as a second interdisciplinary science building may be pushed further out into the future, which could also hinder growth of the Lab's programs.

Even if funding stays flat, things tend to cost more as time goes on, Aronson said. This may lead to reductions in operations, he said, but he considered that there is a reasonably good prospect for BNL, as best he can tell now.

"We still expect and plan for growth of our mission in the future," he said.

Aronson concluded the meeting by answering several questions asked by the audience. An entire replay, as well as video excerpts, presentation slides, and more are available online: http://www.bnl.gov/today/story.asp?ITEM_NO=2646.

— Joe Gettler

In Memoriam

James McBreen, who joined the Department of Applied Science as an associate chemist on June 1, 1977, and was named a chemist in 1979, with a continuing appointment in 1982, died on August 19, 2011, at the age of 72. He had moved to the Energy Sciences & Technology Department in 2001 where he and colleagues invented and patented a new metal alloy to use in rechargeable batteries. He retired on December 31, 2003, returning as a consultant from March 2004 to 2006.

Theodore Rimler, who became a machinist in the Central Shops Division on March 29, 1965, and retired as a tool and instrument maker on June 30, 1980, died on June 15, 2011. He was 95.

Michael Tesla, BNL Life No. 715, who joined the Lab's Architectural Planning & Plant Maintenance Division as a laborer on April 11, 1947, and retired from Plant Engineering as a heat and maintenance engineer A on July 28, 1989, died at 89 on June 16, 2011. During his 42 years at the Lab, he had also been a rigger, firefighter, and stationary engineer.

Patricia Gassaway, who joined BNL as a clerk B on January 3, 1961, and moved first to the Alternating Gradient Synchrotron Department in March 1965, and then to the Director's Office in September 1986, died at 84 on July 28, 2011. She retired as a senior administrative services assistant on January 31, 1994.

Victoria McLane, who joined the Department of Nuclear Energy as a physics associate IV on February 12, 1962, left in November 1963, returned in May, 1964, and retired as a senior physics associate on January 3, 2005, died at 71 on August 13, 2011. A founding member of Brookhaven Women in Science, she contributed significantly to its organization and success.

Families and colleagues may send memories of life experiences and achievements of BNLeers who have died, to appear on the BNL Obituary webpage at www.bnl.gov/bnlweb/pubaf/bulletin/obit/. Please email the article and photo, if you have one, to bulletin@bnl.gov, with "Obituary" in the subject head. If you do not have email, contact Liz Seubert, (631) 344-2346.

Suresh Babu from p. 1

...in energy-related research," Babu said. "These capabilities will help researchers overcome the remaining technical and economic barriers to biomass conversion to fuel, chemicals, and power. This accomplishment would eliminate the nation's dependence on nonrenewable fossil fuels."

Babu earned a B.S. in chemical engineering from Osmania University in India, an M.S. in chemical engineering, fuels, and combustion from the Indian Institute of Technology, and a Ph.D. in gas technology from the Illinois Institute of Technology. He has won numerous awards for his work, including the 2004 David Hall World Prize for Bio-Energy.

After earning his doctoral degree, Babu began his career at the School of Mines at West Virginia University in 1971. Two years later, he joined the Institute of Gas

BNL History: Still Present

Sharing the Story of Technetium-99m

The most commonly used isotope in medical imaging got its start at BNL

Every day, about 110,000 medical imaging procedures worldwide (with more than 40,000 in the U.S. alone) rely on the element technetium in its unstable radioactive form — as the isotope, technetium-99m (Tc-99m) — to create images from inside the human body.

Medical professionals administer isotopes like Tc-99m to a patient, and these isotopes bind to specific areas of the body. Scanners, including SPECT (single photon emission computerized tomography) machines then detect these isotopes as they decay, producing an image of what is going on inside the patient's body. Tc-99m is the most commonly used medical isotope in the world and its birthplace is BNL.

"This isotope has changed the face of nuclear medicine and saved millions of lives," said BNL's Suresh Srivastava, head of the Radionuclide & Radiopharmaceutical Research Division. Srivastava was among BNL scientists who contributed to improving the Tc-99m generator and developing multiple Tc-99m-based imaging agents.

"Historically, BNL has been — and still is — a unique place to accomplish this kind of research," said Srivastava. "We have had what it takes from a to z."

Though the element technetium had been studied and isolated in the 1930s, it was not until 1957 that Walter Tucker and Margaret Greene developed the first Tc-99m generator at Brookhaven. Shortly thereafter, Powell "Jim" Richards, who oversaw BNL's radioisotope production, became convinced that Tc-99m could be a valuable tool for medical imaging.

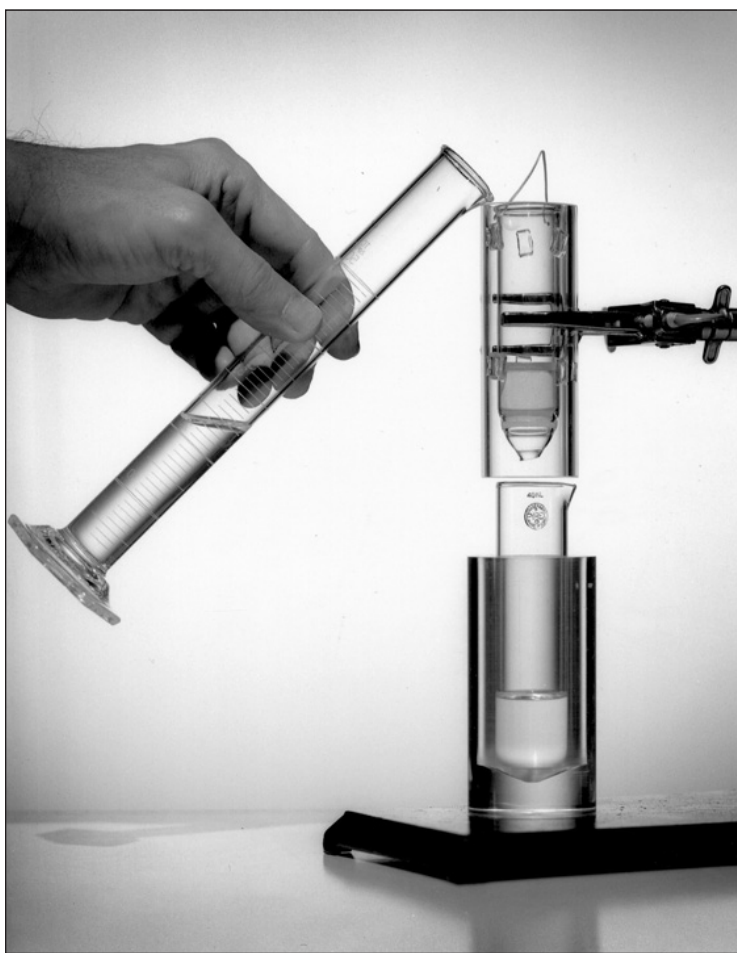
Largely through Richards' championing of this isotope, others in the medical and scientific community began to take notice. Despite an initially tepid reception—efforts to patent the isotope failed as most offices deemed Tc-99m as an isotope purely for research and laboratory purposes — in 1961, BNL met the first order for a Tc-99m generator sent to Argonne Cancer Research Hospital for use in blood flow measurements.

There, the hospital's Paul

Technology (IGT), as a chemical engineer and moved through the ranks to become assistant vice president, research and deployment. Babu played a key role in IGT's merging with the Gas Research Institute to form GTI. He worked for IGT/GTI until 2006, leading the development of coal and biomass gasification technologies and technology transfer efforts, among other leadership roles.

In 2006, Babu returned to India to become the CEO and director of technology development for TERI Technologies, Ltd., a not-for-profit research and development organization in Delhi, and in 2009, he joined the Battelle Science and Technology Division in Bangi, and Kuala Lumpur, Malaysia, working as senior lead, thermochemical technologies, until he assumed his current position at BNL.

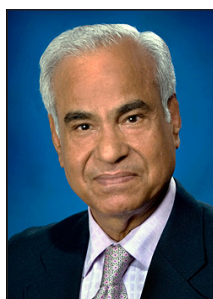
— Diane Greenberg



Mort Rosen 11-12243

Medical Isotopes at BNL

Technetium-99m is just one of many medical isotopes developed at BNL. Currently, Suresh Srivastava is studying the isotope tin-117m that has emissions that allow pre-therapy, low-dose imaging plus higher-dose therapy in the same patient. Certain tin-117m labeled compounds not only image coronary artery plaques, but can also be used to treat these plaques in the cardiovascular system. Tin-117m is also effective in treating symptoms such as bone pain in cancer patients, as well as potentially effective in the treatment of metastatic bone disease. This combination of molecular imaging and therapy, referred to by Srivastava as



Suresh Srivastava

the 'theragnostic' use of radioisotopes, may very well empower personalized medicine and mark the future of the field of nuclear medicine. At present, two start-up companies are engaged in this research to eventually enable

commercialization of the BNL-developed tin-117m technology.

Other "BNL" isotopes in very wide use include the most sensitive and widely used isotope in PET (positron emission tomography) imaging, fluoro-deoxy glucose (F-18 FDG), which was developed by Joanna Fowler and colleagues in the 1970s, and thallium-201, which is still considered the "gold standard" for heart stress tests." — D.Y.

Harper observed Tc-99m's application to imaging thyroid gland and brain tumors, sparking a

new wave of interest. Within six years, the demand for BNL's generator became so high that

Joanna Fowler from p. 1

...used in hospitals and research centers throughout the world to diagnose and study neurological and psychiatric diseases and diagnose cancer. In her talk, Fowler will highlight examples of the development and applications of radiotracers to measure drug action in the human brain. She will also discuss new radiotracer methods to serve as scientific tools for advancing molecular imaging and knowledge of the human brain.

After earning a B.A. in chemistry from the University of South Florida in 1964 and a Ph.D. in chemistry from the University of Colorado in 1967, Fowler performed postdoctoral research at the University of East Anglia, in Norwich, England, and at Brookhaven Lab. She joined Brookhaven Lab in 1969, and has spent her entire career there.

A member of the National Academy of Sciences (NAS),

Fowler has won numerous awards for her research, including the American Chemical Society's Distinguished Women in Chemistry/Chemical Engineering Award in 2011; the National Medal of Science, the NAS Award in Chemical Sciences, the New York State Distinguished Woman Award, and induction into the Long Island Technology Hall of Fame, all in 2009; the Glen T. Seaborg Award for Nuclear and Radiochemistry in 2002; the Francis P. Garvan-John M. Olin Medal in 1998; the Society for Nuclear Medicine's Paul C. Aebersold Award and DOE's E.O. Lawrence Award in 1997; and the Esselen Award for Chemistry in the Public Interest in 1988.

A faculty member of the Mount Sinai School of Medicine and Stony Brook University, Fowler has mentored dozens of chemists and other imaging scientists. She is also a member of numerous

the Lab had to pass production to commercial generator companies. Today, Tc-99m is administered worldwide into more than 40 million patients annually.

Present Day Recognition

In recognition of BNL's role in the development of Tc-99m, the commercial Tc-99m generator producer Covidien (formerly Mallinckrodt) created an exhibit, "We are the Generators," that was presented at the last Annual Congress of the European Association of Nuclear Medicine in Vienna, Austria, in October, 2010. Covidien asked Srivastava to represent BNL at the exhibit, which recounted Tc-99m's history.

In addition, at this year's Annual Meeting of the Society of Nuclear Medicine (SNM) in San Antonio, TX in June 2011, Covidien put together and donated a framed display describing the story of the development of the Tc-99m generator at BNL that was auctioned at the SNM Annual Meeting silent auction to benefit the Society of Nuclear Medicine. At this meeting, a "Breakfast with Covidien" meeting on "Global Mo-99/Tc-99m Supply: A Look Forward" was heavily attended.

Indeed, as attested by sources such as a House of Representatives Bill, 7/21/09, and an article in *Nature*, 12/12/09, the global supply of Tc-99m has dramatically decreased, creating a crisis situation. Considerable effort is being made by various countries, including the U.S., to develop technology to replenish the availability. Certain options being considered include developing high-current electron accelerators that use x-ray technology to produce molybdenum-99, from which Tc-99m is made.

"Speaking for the Lab, we feel proud to have contributed so much to this field," Srivastava said. "BNL has been the birthplace of many medical isotopes, and the research done here has improved millions of lives, and enabled early stage diagnoses, the key to saving patients. This research has immensely benefited humanity."

— Daisy Yuhas

advisory boards and editorial boards. Fowler has published approximately 350 peer-reviewed articles and holds eight patents for radiolabeling procedures.

— Diane Greenberg

Inside Info

Per Dahl, who joined the staff of the Accelerator Department on August 29, 1963, died at the age of 79 on October 1, 2011. Dahl worked on superconducting magnet development and design. He left BNL on July 1, 1989, to work on the Superconducting Super Collider, then joined Lawrence Berkley National Laboratory, keeping contact at BNL as a visiting scientist, and consulting in the early days of the Relativistic Heavy Ion Collider magnet program. Dahl's obituary is available at www.bnl.gov/bnlweb/pubaf/bulletin/obit/.

Joint Photon Science Institute Inaugural Seminar, 11/8

‘Materials Analysis at Large Scale Facilities’

The Joint Photon Science Institute will hold its inaugural seminar on Tuesday, November 8, at 2 p.m. in the Physics Seminar Room S240, Stony Brook University. All are welcome. Ian Robinson of the London Centre for Nanotechnology, UCL and Research Complex at Harwell will talk on “Materials Analysis at Large Scale Facilities.”

As Robinson will discuss, large scale facilities, such as the new National Synchrotron Light Source II under construction at Brookhaven, open up opportunities for probing deeper into the physical properties of materials.

Robinson will explain the work of his group in developing the method of coherent x-ray diffraction, which is an effective way of imaging crystalline nanoparticles and nanostructures in three dimensions. Results observed from the methods they used explain why nanocrystals have a different “equation of state” from bulk condensed matter.

Arrivals & Departures

— Arrivals —

Mark Breitfeller Photon Scis

William Licciardi Photon Scis

Robyn Rock OTC&P

— Departures —

Mark Baker Physics

Zhe Wang Physics



BSA Noon Recital, 11/9

Weiss, Polonsky

Pianists Orion Weiss and Anna Polonsky will perform duets by Schubert, Schumann, and Ravel in a concert on Wednesday, November 9, 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.

Orion Weiss was named the 2010 Classical Recording Foundation’s Young Artist of the Year. He is one of the most sought-after soloists in his generation of American musicians. In 1999, he stepped in to replace André Watts for a performance with the Baltimore Symphony Orchestra.

Anna Polonsky is widely in demand as a soloist and chamber musician and has performed at venues such as the Amsterdam Concertgebouw, the Vienna Konzerthaus, Alice Tully Hall, and Carnegie Hall’s Stern, Weill and Zankel Halls.

Please remember — bring canned goods for the BNL Food Drive.



SBU Student Zhixun Dou Wins Dr. Mow Shiah Lin Scholarship

Zhixun Dou, a graduate student in Stony Brook University (SBU), has won the seventh annual Dr. Mow Shiah Lin Scholarship sponsored by the Asian Pacific American Association at BNL. Dou recently made a groundbreaking discovery that illuminates how autophagy, a cell metabolic process, is regulated.

Established to honor the distinguished late BNL scientist for whom it was named, the scholarship consists of \$1,000 and a plaque. Dou received the award at a ceremony held at BNL on October 6. At that time, he gave a talk on his work on autophagy that was very well received by a scientific and general audience.

Using appealing graphics to illustrate his points, Dou explained that, activated in response to various cellular stresses, autophagy is a normal process in which cells break down their own components.

The balanced functioning of autophagy is essential in preventing several human diseases, including cancer and Parkinson’s disease. Dou found that a class of enzyme known as lipid kinase plays a critical role in regulating autophagy.

Photo above: At the 2011 Dr. Mow Shiah Lin Award Ceremony, Beth Y. Lin, (fifth from left), presented the scholarship to recipient Zhixun Dou (fourth from left) of Stony Brook University (SBU). Attendees also included Dou’s advisor, Professor Wei-Xing Zong (right) of SBU; Lin’s grandson, Lee Alvarado (left); daughter, Samantha Lin-Alvarado (second from left); granddaughter, Josephine Alvarado (second from right); and Susan Wong (third from left), Asian Pacific American Association Lin Scholarship Chair.

This finding was published in the November 15, 2010 edition of the *Journal of Cell Biology*, and Dou received the 2010 Abrahams Award for Outstanding Achievement by a Graduate Student for the discovery.

“I am grateful to receive this scholarship,” Dou said. “After I receive my Ph.D., I plan to continue training as a post-doctorate fellow in an academic laboratory. I would like to establish my own laboratory to study human diseases, such as cancer and diabetes, and I hope my research on cell metabolism will contribute to novel therapies in preventing and curing diseases.”

Mow Shiah Lin began his career at BNL in 1975 as a post-doctoral fellow and advanced to co-lead a research team working with an environmental remediation company to use selected bacteria to convert toxic oil wastes, such as used motor oils, into useful products. In 2001, Lin shared an R&D 100 Award, given

by *R&D Magazine* for the top 100 technological achievements of the year, for a technology to recover silica from geothermal brine. Lin died suddenly due to a brain aneurysm at the height of his career in 2003, and his coworkers, friends and family contributed funds to establish the scholarship.

In remembrance of the manner in which Lin began his career, the scholarship is granted annually to an Asian immigrant with a student visa who is matriculated at an accredited institution of higher education on Long Island (including Brooklyn and Queens) working toward a graduate degree in environmental & energy technology, biology, or chemistry.

With a B.S. in biological sciences from Nankai University in Tianjin, China, Dou enrolled in SBU’s graduate program in molecular and cellular biology in 2007. He expects to receive his Ph.D. in 2012.

— Diane Greenberg

APS Report on Women in Science: Next Steps

By Shirley Kendall, Manager, Diversity Office

Last year, Laboratory Director Sam Aronson asked the American Physical Society’s Committee on the Status of Women in Physics to conduct a climate assessment on how the Lab attracts and retains female scientists. The goal was to identify problems commonly experienced by women researchers so we can intervene, strive to solve them, and improve the climate for women students, research associates, and scientific staff at Brookhaven.

We received the committee’s final report this summer and shared it with the Lab’s Policy Council. Director Aronson recently formed a task force with

broad representation across the Lab community and asked the group to review the report’s findings and determine a path forward. The task force has now met twice, and its first recommendation was that the report be shared with the Lab community. You can find it on the Diversity Office website at www.bnl.gov/diversity/.

The task force is very interested in getting feedback from the Lab community on any of the recommendations made in the report and how they might be addressed. Please feel free to give your suggestions to any of the task force members via phone or email; be sure to ref-

erence the recommendation on which you’re providing feedback. If you’d like to remain anonymous, you can send your suggestions via interoffice mail.

The task force members include: Mei Bai, Steve Dierker, Peter Genzer, Rita Goldstein, John Hill, Erik Johnson, Carol Kessler, David Morrison, Thomas Roser, Maggie Sullivan, Vivian Stojanoff and Eli Sutter. Lab Director Sam Aronson, Deputy Director for Science & Technology Doon Gibbs, and I are serving as *ex-officio* members of the task force. The group will meet again later this month, so please send any suggestions by Friday, October 21.

BREA Tour of RHIC 11/9

On Wednesday, November 9th at 9:30 a.m. the retired employees association is sponsoring a tour of the RHIC tunnel and the PHE-NIX detector. After the tour there will be a luncheon. Retirees and their guests can make reservations by emailing Ken Mohring (kenwadingriver@gmail.com) or by sending a note to BREA at Bldg. 421. The cost of the luncheon (hero, salad, soda and dessert) is \$8. The schedule for the day is at the BREA website: <http://www.bnl.gov/bera/activities/brea/default.asp>.

TIAA-CREF One-on-One Counseling

A TIAA-CREF consultant will visit BNL on November 2, 17, and 28; and December 8, 14, and 21, to answer employees’ questions about financial matters. For an appointment, call 1-800-732-8353 or go to www.tiaa-cref.org/bnl and select “set up a meeting.”

Art, Crafts, Photos For BNL Fall Show

BNL artists, craftspeople, and photographers: your best, most creative work is needed for the annual BNL Fall Art and Crafts Show to be held Monday to Wednesday, November 21 to 23, 11:45 a.m. to 1:30 p.m. daily with an opening reception with refreshments on Monday 21, 5-6:30 p.m. Please contact Liz Seubert, lseubert@bnl.gov or Ext. 2346, or Joe Gettler, jgettler@bnl.gov or Ext. 3584.

CALENDAR

Friday, 10/21

Healthfest Mountain Bike Ride
Noon-1. Gazebo by ballfield. 5 or 8 mile routes. Helmets, mountain bikes required. Register at <http://intranet.bnl.gov/healthfest/>

— WEEK OF 10/24 —

Mon-Fri, 10/24-28

***Healthfest Free-Trial BERA Classes**
This week, several BERA clubs are offering a free trial of their activities. Go to www.bnl.gov/bera/ for more information and see p.4.

Monday, 10/24

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.

Thursday, 10/27

***Joanna Fowler on PET, Addiction**
4 p.m. Hamilton Seminar Room, Bldg. 555. All are welcome as BNL’s Medal of Science Winner Joanna Fowler, Medical Department, talks on “Positron Emission Tomography and Diseases of Addiction,” Sponsored by Brookhaven Women in Science, the talk is free and open to the public. Visitors to the Lab of 16 and older must carry a photo ID. See p.1.

— WEEK OF 10/31 —

Saturday, 11/5

***Benefit Conference on Nikola Tesla**
Hilton Garden Inn, Riverhead. All-day exhibits, talks, including by BNL scientists, focusing on Nikola Tesla, ham radio, more. See notice on this page.

— WEEK OF 11/7 —

Tuesday, 11/8

***Joint Photon Science Institute Inaugural Seminar**
2 p.m. Stony Brook University Physics Seminar Room S240. Ian Robinson, London Centre for Nanotechnology, UCL and Research Complex at Harwell will talk on “Materials Analysis at Large Scale Facilities.” All are welcome. See notice, left.

Wednesday, 11/9

***BSA Noon Recital**
Noon. Berkner Hall. Pianists Orion Weiss and Anna Polonsky will perform duets by Schubert, Schumann, and Ravel. Sponsored by Brookhaven Science Associates, the concert is free and open to the public. All visitors to the Lab of 16 and older must carry a photo ID.

Tesla Event, 11/5

Learn about Nikola Tesla’s technology, ham-radio news, support Tesla’s last lab as future museum

On Saturday, November 5, BNL scientists will be among the speakers at a day-long conference held by the Tesla Science Center on Nikola Tesla, father of wireless technology, at the Hilton Garden Inn, 2038 Old Country Road, Riverhead.

Enjoy exhibits, ham radio news, and other talks from Tesla researchers and filmmakers. To register, go to www.TeslaScienceCenter.org.

The cost includes lunch and refreshment breaks: \$40 for adults (after Nov. 1, the cost is \$50); students with ID, \$30; children 3-14, \$15. Proceeds will help purchase and restore Tesla’s last laboratory, which is nine miles from BNL.

BERA News, Events, Trips

Buy tickets at the BERA Store, Berkner Hall. Coaches leave BNL from the Brookhaven Center. Trip participants under 21 must be accompanied by a BNL employee or parent. A few tickets remain for:

- **GHOST walking tour** in Greenwich Village, Sun., Oct. 30.
- **New York City “Do as You Please.”** Bryant Park/Rockefeller Center area, Sat., Dec. 10. Dep. BNL 10 a.m., NYC, 7 p.m. \$15.
- Next week, **October 24-28, celebrate Healthfest** by taking a **Free Trial of a BERA Fitness Class**. To register, see www.bnl.gov/bera/linkable_files/2011Nov-DecFITNESS.pdf. You may try one free class — choose from Yoga-Lates, Aerobic Fitness, Pilates, Zumba, Jiu Jitsu, Kick Boxing, Ballroom Dance, or Aqua Aerobics. Always free of charge are: Tai Chi, Yoga, and Reiki!
- **Christmas Show, Radio City Music Hall:** Sun., Dec. 11. Dep. BNL 7 a.m.; NYC 3:30 p.m. 90-min show starts 9 a.m. \$70 each.

Tickets will go on sale on Oct. 28 for:

- The **annual BERA Holiday Party** to be held at the Crowne Plaza Hotel on Fri. Dec. 16. \$60/person includes: Hors d’oeuvres, open bar, DJ dancing, dinner buffet, raffle prizes, and more at the newly renovated hotel at Exit 63 in Holtsville. You can even add on \$79+ tax per couple to “Take The Elevator Home,” i.e, take a room for the night, including breakfast.
- **Nutcracker Ballet** performed by Seiskaya Ballet at the Staller Center at Stony Brook University on Sat., Dec. 17, 2 p.m. \$28 for adult or child. No transportation/bus provided.

New Series of Ballroom Dance Classes
Rumba, Cha-Cha, Waltz

The BNL Ballroom Dance Club will start a new series of five lessons on Wednesday, Nov. 2, in the North Ballroom at the Brookhaven Center.

- 5:30 p.m. Beginner Rumba
- 6:30 p.m. Intermediate Cha-Cha
- 7:30 p.m. Intermediate Waltz

The cost is \$40 per person for the five-week series. Classes are on November 2, 9, 16, 30, and December 7. No class on the Wednesday, November 23, which is before Thanksgiving. There will be a Dance Social on December 14 — no teacher, music will be provided.

Pre-registration is required for the Beginner Rumba class. If fewer than 10 people sign up we will not hold a beginner class. Please let Vinita Ghosh (see below) know by Oct 26 if you wish to join the class.

For registration information contact Vinita Ghosh, Ext. 6226, ghoshvj@bnl.gov; Arup Ghosh, Ext. 3974, agghosh@bnl.gov; Mike Hanson, Ext. 2947, hanson@bnl.gov; or John Millener, Ext. 3853, millener@bnl.gov or go to www.bnl.gov/bera/activities/dance/default.asp.

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

02 BUICK LESABRE – 93K mi. a/t, am/fm/xm/cd, a/c, c/c, ABS, fwd, cust. Sedan, blue, looks, drives like new, lthr, alarm. \$5,200 neg. 816-0723 or ymiao@bnl.gov.
02 FORD MUSTANG, GT – 15.46K mi. Immac convertibl, low mi, 5cd, 4.6l 2V SOHC V8 eng, 5-spd m/tranny, 17” alloy rims, completely maintd. \$12,500. Ext. 4929.
01 PONTIAC GRAND PRIX – 36K mi. 4dr, V6, a/t, a/c, pw, pl, many options, v/clean, well maintd, 3 xtra low mi tires. \$4,000 neg. Jim, 772-8251.
01 SAAB 9-3 SE – cnvrtible, 2D, 127K mi, a/t, fwd, abs, trctn cont, a/c, cd, dual air bags, anti-theft, dual p/s, heatd lthr, on-star. kbb: \$5,700, \$4,900 neg. 344-2420.
95 MAZDA 626 – 150K mi. 4D,4-Cyl, 2.0 Liter, a/t, v/gd cond, v/ gd starter car. \$1,200 neg. 605-5413.

Boats

9’ AVON INFLATABLE – gd shape, 4 hp Mercury eng, ft pump, oars, seat, in gd running cond. \$400. 734-2567.
18’ PARKER 2002 – w/115 hp Yamaha outbrd w/low hrs, Loadrite trailer, suntop, mooring covers, winter cover, like new, in water. \$14,000. 286-8582.

Furnishings & Appliances

AIR CONDITIONER – Frigidaire 15,000 Btu window unit w/remote, 110volt, approx 5yrs old, excel cond, \$75. Pete, Ext. 4028.
BOXSPRING – brand new, Raymore & Flannigan q/size boxspring, was part of \$2,800 set; ask/ \$250. Ext. 2852, 603-5200.
BREADMAN BREADMAKER – simple to use, elec, slightly used, comes w/bread cookbook, \$20. 516-241-4598.
CONSOLE – 43”w 46”h 14 3/4”d, tv shlf, 4 add’l shelves/\$20, Ridge. =744-4077.
ENTERTAINMENT CNTR/WALL UNIT – 5-pc. Rymr & Flgn. Under 3 yrs old, mahog w/lighted glass cabs, DVD storge w/42” T.V. Console. Pd \$2,000, ask \$600. 521-4403.
FURNITURE – Mid-Cen, 3pc sectional, turquoise, wood, gd cond/\$500; cust coffee table w/boomerang shape/\$40, 744-4077.

KITCHEN TABLE SET – Oval table w/4 chairs, almond color, excel cond/\$100. Tony, 275-0694.
SOFA & LOVESEAT – Clayton Markus, -v/ gd/cond, pic on reqst, \$600/neg. Rich, Ext. 7013, 698-5294 or derocher@bnl.gov.
SOY MILK MAKER- JOYOUNG – fully a/t home kitch appli, heating sys, incl 5 cereals, full bean, & dry beans milk. 2/yrs new, \$45. Yuchen, ymiao@bnl.gov.
SWIFFER WETJET SYSTEM – ready to use, pwr mop, cleaning pads & solution; \$10. 516-241-4598.
TV CABINETS – 2/avail, 1/med oak, 54”h x43”L x21”d, 1/ cherry veneer, 64”h x60”L x19”d, both excel cond, \$100/ea. Donna, Ext. 2716, 878-2425 or storan@bnl.gov.
WASHER-HAIER HLP21E – top load, drum size:1 cu ft, wght capac 6.6 lb, wght 50.7 lbs, slightly used, \$60, u pic up. 816-0723.

Audio, Video & Computers

26 – 2/avail, both RCA, 1/has built-in VCR player, \$40/ea. Donna, Ext. 2716, 878-2425 or storan@bnl.gov.
CD/DVD PLAYER-SONY – DVP-SR200P, \$20. Logitech S120 2.0 Multimedia Speakers, \$5. 816-0723 or ymiao@bnl.gov.
KODAK EASYSHARE SYSTEM – Kodak C340 digital camera w/Kodak EasyShare 6000 printer dock, all software/hardware, \$150. Chris, Ext. 7365 or stelmach@bnl.gov.
LAPTOP RAM – Samsung PC3-8500 (DDR3 1066) 1GB, 4/ avail. \$10/ea. Mark, Ext. 3970 or mwahlert@bnl.gov.
TV – 26” SANYO, 720P, 60Hz LCD HDTV, DP26649, USB, S-video, HDMI, component, antenna conn, 2/yrs new/remote, \$130. Yuchen, ymiao@bnl.gov.
VIDEO GAMES – for Wii, Xbox and GameCube, \$10/ea. Donna, Ext. 2716, 878-2425 or storan@bnl.gov.
WINDOWS XP HOME – genuine media and COA/\$30. Mark, Ext. 3970 or mwahlert@bnl.gov.

Sports, Hobbies & Pets

4 STRING ACOUSTIC BASS GUITAR – dean, active pickups, tuner -eq - w hard-shell case played less than 10 hrs, like new, 275. caufield@bnl.gov.
AQUA BLOKS FOR POOL COVER – instead of water bags for securing in grd pool cover, 3’l x 6”w x 4”d, about 90 linear ft, \$50. Brian, Ext. 6399.
BASS GUITAR – ibanez-6 string elect bass sound gear pro series-mahogany-active pic-ups, \$500. caufield@bnl.gov.
VIOLIN – full size Romania Verona Stradivarius Mdl #892414, Mathios Thoma, MTS Products, 23”L x 8”W, Menc Specs, case, Glasser Bow, never used, \$299. 395-6784.



Joseph Rubino D2951011



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Tools, House & Garden

BROADCAST SPREADER – Earthway 2100P, unused, new/\$140, sell\$75/obo, see <http://tinyurl.com/42hjjaas>. Donald, Ext. 7237, 929-6571 or sievers@bnl.gov.
OXY-ACETYLENE TORCH – full size tanks, regulators, hoses, cutting & brazing tips plus cart, \$300. James, Ext. 7079 or rose@bnl.gov.
Miscellaneous
BABY’S ITEMS/KID TOYS – strollers, toddler car booster, Butterscotch Fureal pony, girl’s Vtech, more. mmccabe@bnl.gov.
DANCE REVOLUTION – Two pads and one DVD for Xbox, \$50. Donna, Ext. 2716, 878-2425 or storan@bnl.gov.
GYM EQUIPMENT – 1 Nordictack, 1 Nordic Gold, 1 Tuntury bike, like new, b/o. 275-0866.
GYM EQUIPMENT – 1 Nordictack, 1 Nordic Gold, 1 Tunturi Bike, like new, b/o. 275-0866.
HOUSEHOLD – Pfaltzgraff dinner/flatware sets, cream w/blue/green, ping pong table, 9’ x-mas tree, huge x-mas wreath, cd player, spkrs, candle holders. mmccabe@bnl.gov.
JACKET – Brown tweed sport jacket size 52 reg new never worn still has tags on jacket \$100. 516-779-3116.
POWER/CHILL – Thermoelectric cooler, hot/cold, 40qt, \$50, Exersaucer car/\$20, Roocase, exec e-Book case, red leather/\$25. Donna, Ext. 2716, 878-2425.
QUEEN SOFABED-COUCH & LOVESEAT – Jennifer, taupe microfiber: Under 3 yrs old. Paid \$1300 asking \$400. 521-4403.

Wanted

ARTWORK, CRAFTS, PHOTOS - Created by BNLers or family 15 & over, for BNL show, Nov. 21-23. Please contact Liz Seubert, lseubert@bnl.gov, Ext. 2346; Joe Gettler, jgettler@bnl.gov, Ext. 3584.
2-BDRM APT/HOUSE – Prof. non-smkr female seeking nice, v/clean 2 bdrm apt in nice, quiet, peaceful area, no pets, preferably within 10 mi from BNL. 445-4027.
ADOPT-A-PLATOON – Monetary donations gratefully accepted towards mailing shipments to our platoon stationed overseas and to send goodie packages to BNL family members. Thank you. Joanne, Ext. 8481.
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, Ext. 8481.
CALCULATOR – Texas instruments TI-83 or TI-84 school graphing calculator. Richard, Ext. 7129 or rlagattolla@bnl.gov.

DOG/CAT HOUSE – igloo shaped. Charles, 875-9426.
DONATIONS OF DOG/CAT FOOD – For pets of struggling families/elderly and or Kent Animal Shelter. Collection bins are in Bldgs 134, 400, 510 (X5864), 725, 901, 902. Kathleen, Ext. 3161 or kratto@bnl.gov.
HOUSING IN KOLN – Looking for housing or a contact for same for a student from LI attending the University of Koln. He is currently staying on a couch! A room, or an apt., thanks! Kelly, Ext. 8938.
SAFETY CHILD FENCE – To block off an area in l/r, for an 8 mo old baby who needs space to roam! pls email, thank you. Dorothy, Ext. 2585 or dorothyd@bnl.gov.

Community Involvement

HOLIDAY GIVING – Keeping things simple! Gift cards for \$10 or ANY AMOUNT to a grocery store or general merchandise store like Target for Brookhaven Inteface. Ext. 5090 or carter@bnl.gov.
FUNDRAISER – Save \$\$ Purchase Entertainment Book \$30 w/a value of \$17,300 in savings (save \$60 at A&P, Pathmk, SuperFresh & Waldbaums. Nina, Ext. 5894.

Free

HEARING AID BATTERIES – Type 312, 21 pieces. Steve, Ext. 2897.

Lost & Found

LOST – keys (4) on one key ring. Maybe by Berkner Hall. Margherita, Ext. 5168.

For Rent or Sale

AQUEBOGUE – 3 level condo, 3.5 ba, cac, cent-vac, car gar, hot tub, walk on priv beach, 3 zn heat/pool/tennis/all applis/upper deck/lower patio for sale or rent/\$2400/mo. \$699,000. Carmine, Ext. 5101.
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, igrp in lanai, fruit trees, see review.oktane.net/House-Tour. \$400/wk. \$125,000 neg. 344-5537.

For Rent

MEDFORD – 3 bdrm, 1 bath, fen in backyd, pets ok, 15 min to Lab, utils not incl. \$1,800/mo. Ext. 5776 or ruga@bnl.gov.
MIDDLE ISLAND – 1 bdrm cond, up flr, Artistlake Dr, 2.5 mi to Lab, 900sq ft, S/N windows, new decoration, no pets. \$1,150/mo. art1668@yahoo.com.
MIDDLE ISLAND – lg l/r, 1 b/r, full kit & bath bsmt apt, int/phone/prv ent/drwy, incl all, 10 min to BNL, quiet, no smkg/pet, BNL employee only, 1/mo sec. \$850/mo. 672-2451.

MILLER PLACE– share lg furn Col. hse, prof resid area, 8 mi to BNL, wire & wireless int, ac/heat, TV cable, own furn, bdrm, all incl, responsib non-smkr. \$700/mo. 275-0866.
MILLER PLACE – new 2 bdrm lg furn apt, priv ent, 2 full bth, l/r, new eik & appls, hdwd flrs, incl utils + cable+ 1 mo sec, no smkg/pets, 7 mi to BNL. \$1,300/mo. 598-9928.
RIDGE – 1 bdrm, full bath, LR, kitchenette, sep entr&parking, mins to Lab, no smkg/pets in apt, incl all. \$975/mo. 924-0002.
ROCKY POINT – 1 bdrm Co-Op Apt, w/ priv backyd, lg ba, eik w/side wndw, lg l/v, new cac/heat, no smkg/pets, util incl wtr/ gas/htg/cac, \$1,000/mo neg. 593-4403.
ROCKY POINT – 2-3 bdrm, 2 ba, storage shed, 10 mi to BNL, 14 mi to SBU, nr beach, stores, fen’d in backyd, incl water & gas. \$1,300/mo. 525-6648.
RONKONKOMA – 1 bdrm, 1 bath, all incl, no pets of any kind/smkg. \$950/mo. dmcarthur@bnl.gov.
SHOREHAM – share hse w/professional, lg/ furnd bdrm, cable TV, intnet, no smkg/pets, 8 mi to BNL, cell/578-0108. \$625/mo. 744-3543.
WADING RIVER – 3 bdrm, 2 1/2 ba, jacuzzi, kit, laundry, l/r, d/r, bsmt, deck, 1 acre, SWRSD. Sec. dep., income verif., crd. chk. req. Pets ok w/ sep. dep. Utils. not incl. \$2,900/mo. 943-9107.
YAPHANK – Fully furn spacious studio apt for one. Hi speed Int./all utils incl. Quiet area 5 min to BNL. No smoking, no pets. \$850/mo. Irene Pratka, 516-205-6712.

For Sale

CALVERTON – Move right in, charming cape, 2 bdrms, 2ba, kitch, d/r, lrg l/r w/ vaulted ceilings, quiet neighborhd mins away from all. \$289,000 neg. 831-0152.
RONKONKOMA – 4 bdrm, 2.5 ba Col., on quiet dead end st in Connetquot SD, orig owner, many ammenities, must see, 15 mins to Lab. \$384,000 neg. Kathy, Ext. 4503.
SHOREHAM – 3 bdrm 1.5 bath Col. on cul de sac, updated kit w/stnlss applis/ updated ba, new w/d, den w/fpl, bsmt, deck, gar, lg, wood shed, low taxes, SWRSD, \$359,000. Andrea, Ext. 3347.
WADING RIVER – 2 bdrm ranch, walk to beach/park/deli, 15 mins to BNL, immaculate, ready to move in, all new paint/ carpets. \$215,000. 473-6550.

On-Site Services: Cafeteria

Daily at the Cafeteria, Berkner Hall, try the “American Grill,” grilled salmon burger with tartar sauce, lemon wedge, lettuce & tomato, or grilled chicken burger with lettuce & tomato, French Fries & 16 oz fountain drink, \$5.95 + tax (w/spicy waffle fries or crisp onion rings add \$.55).