

Nicholas Samios Is Awarded JINR's Pontecorvo Prize

BNL Distinguished Senior Physicist and former Laboratory Director Nicholas Samios has been named the 2001 recipient of the Bruno Pontecorvo Prize of the Joint Institute for Nuclear Research (JINR) in Dubna, Russia.

The prize, awarded annually since 1995, recognizes "the most significant investigations in elementary particle physics," as acknowledged by the international scientific community.

The award honors Samios for his contributions both as a researcher in elementary particle physics, particularly neutrino physics, and as a scientific administrator. It will be presented at the 91st session of the JINR Scientific Council in Dubna on January 18, when Samios will deliver a talk on his work.

"I am honored to be a recipient of this award and am especially pleased that it recognizes the important contributions to neutrino physics," Samios said.

As a researcher, Samios has made many of the particle discoveries that have helped define and lead to the acceptance of the "Standard Model" of particle physics, the currently accepted theory that explains all known particle interactions. In particular, he is noted for the discovery of the phi meson and the omega minus hyperon, crucial elements delineating the symmetry of

hadrons, which ultimately led to the quark model of elementary particles, now a pillar of the Standard Model.

Samios has also made significant contributions through a decade-long study of neutrino interactions, both at BNL and the Fermi National Accelerator Laboratory. These studies included the discovery of the charmed lambda — the first charmed baryon observed — and early measurements of neutrino electron elastic scattering and limits on neutrino oscillations.

As BNL Director from 1982 through 1997, Samios led the effort to build the Relativistic Heavy Ion Collider (RHIC), the world's newest, highest energy facility for nuclear physics.

Under Samios's direction, BNL built RHIC to produce a new state of matter known as quark-gluon plasma. In this state, the constituent quarks that



Nicholas Samios

Roger Stoulenburgh D0040102

make up protons and neutrons — and the gluons that hold the quarks together — would, for the first time since the dawn of the universe, exist in an unconfined state amenable to study. The collider became operational in 2000 and is already producing interesting physics results (see <http://www.bnl.gov/rhic>).

Nicholas Samios received his B.A. and Ph.D. degrees in physics from Columbia University in 1953 and 1957, respectively. He

first came to BNL as a summer student in 1952 and joined the Lab as an assistant physicist in 1959.

Samios advanced to senior physicist in 1968, served as Physics Department Chair, 1975-81; Deputy Director for High-Energy & Nuclear Physics, 1981-82; and Director, 1982-97. A Distinguished Senior Scientist since 1997, he became Deputy Director in 1998 of the RIKEN/BNL Research Center, a research

center at BNL funded primarily by the Japanese RIKEN Laboratory to explore both the theoretical and experimental physics potential of RHIC. Since 1970, Samios has also been an adjunct professor in the Physics Department at Columbia University.

Samios' many other honors include: the 1980 E.O. Lawrence Memorial Award, the 1980 New York Academy of Sciences Award (continued on page 2)

Two New 'Speed' Studies Reveal Damage, Some Recovery From Drug

In a continuing effort to understand neurological changes associated with drug abuse, members of BNL's neuroimaging group recently published results from two new studies on the effects of methamphetamine, also known as "speed" or "crank."

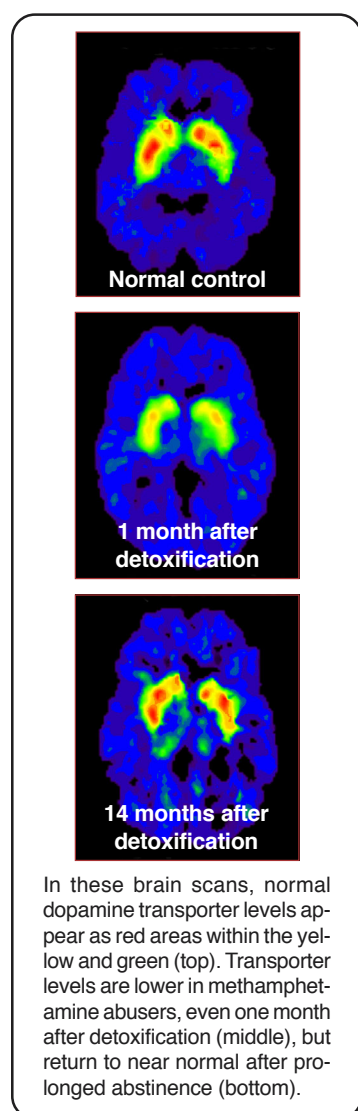
Abuse of methamphetamine has risen dramatically over the past decade in the United States and around the world. "It has become a significant public health problem," said Nora Volkow, Associate Laboratory Director for Life Sciences, lead author of both papers.

The first study, published in the December issue of the *American Journal of Psychiatry*, revealed that, compared with people who do not use drugs, people who abuse methamphetamine have fewer receptors for dopamine, a brain chemical associated with feelings of reward and pleasure.

Furthermore, in the drug abusers, low dopamine receptor levels were linked with reduced metabolic activity in a brain region that regulates motivation and "drive."

The blunted activity in this part of the brain "reduces the ability of all other stimuli to trigger a reward response," said Volkow. "Ordinary stimuli are not strong enough to activate the circuits."

Taking methamphetamine, however, releases such an enormous amount of dopamine that all available dopamine receptors are activated, no matter how few there are. This very strong (continued on page 2)



369th Brookhaven Lecture

Materials Science of the Ultra Small

Many researchers around the world are investigating the science and technology of the ultra-small, focusing on structures and devices as minute as a nanometer, one-billionth of a meter. Understanding the properties of materials at the nanoscale is expected to lead to a wide range of practical applications.

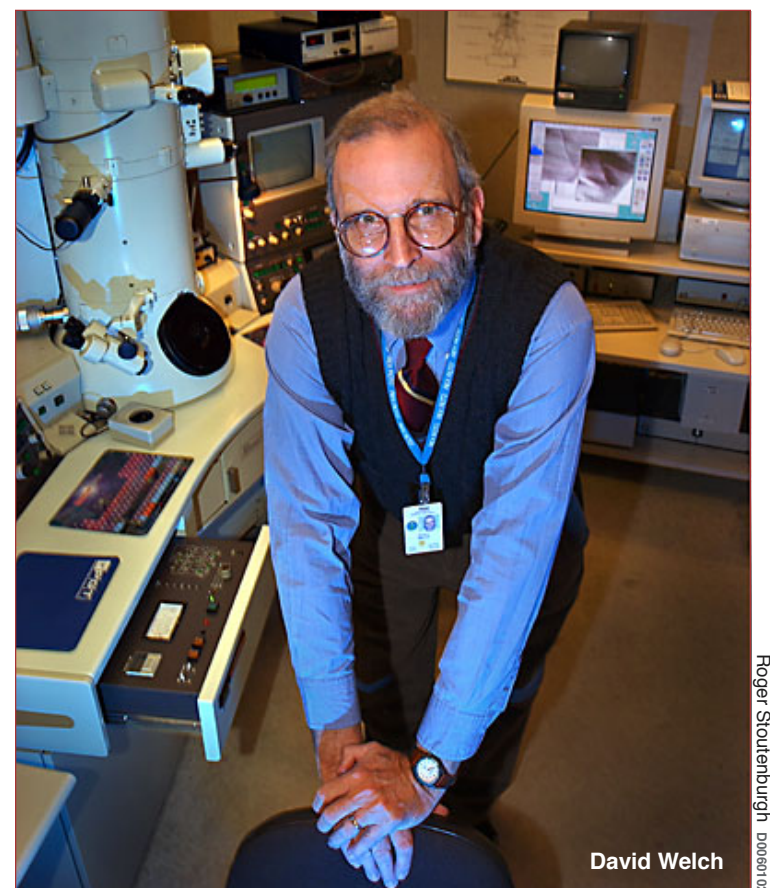
For example, nanoscale properties contribute to the electrical and magnetic properties of functional materials, such as the electrical conductivity of semiconductors and the strength of permanent magnets. Also, new properties arise in materials with nanoscale dimensions.

To describe BNL's involvement in this field, David Welch, Interim Chair of the Materials Sciences Department, will give the 369th Brookhaven Lecture, "Materials Science at the Nanoscale." His talk will be held in Berkner Hall on Wednesday, January 16, at 4 p.m. He will be introduced by Associate Laboratory Director for Basic Energy Sciences Richard Osgood.

Both the nanoscale properties and the means of fabricating nanoscale devices are often found in unexplored territory. Welch will describe how BNL researchers are investigating the potential of this new area.

Welch will also discuss how the arrangement of atoms as well as defects of the atomic architecture at nanometer scales control the larger, macroscopic properties of the material. Understanding these properties allows scientists to tailor materials to their needs.

Welch, a senior materials scientist, received his Ph.D. in



David Welch

Roger Stoulenburgh D0060102

physical metallurgy from the University of Pennsylvania. He came to BNL in 1972 and now works in the Materials Sciences Department, where he specializes in theoretical materials science with a particular interest in the physics of defects

and the statistical physics of materials.

Refreshments will be offered before and after the lecture. To accompany the lecturer to dinner after the talk, contact Alexandra Lopez, Ext. 2590. — John Galvin

Calendar of Laboratory Events

- The BERA Sales Office is located in Berkner Hall and is open weekdays from 9 a.m. to 3 p.m. For more information on BERA events, contact Andrea Dehler, Ext. 3347; or M. Kay Dellimore, Ext. 2873.
- Additional information for Hospitality Committee events can be found at the Lollipop House and the laundry in the apartment area.
- The Recreation Building (Rec. Bldg.) is located in the apartment area.
- Contact names are provided for most events for more information.
- Calendar events flagged with an asterisk (*) have an accompanying story in this week's Bulletin.

— EACH WEEK —

Mondays: BNL Gospel Choir

5:15-7 p.m. Rehearsals in Berkner auditorium. Seeking new members, all faiths. Frances Ligon, ligon@bnl.gov, Ext. 3700; Sydell Lamb, lamb@bnl.gov, Ext. 3389; www.bnl.gov/bera/activities/choir/

Mon., Tues., & Thurs.: Aqua Aerobics

5:15-6:15 p.m. \$2 pool fee per class or use pool pass. Mary Wood, Ext 5923.

Mon., Tues., & Thurs.: Cardio Kickboxing

\$5 per class. Mon. & Thurs. noon-1 p.m. in the gym; Tues., 5:15-6:15 p.m. in the gym; Thurs., 5:15-6:15 p.m. in Brookhaven Ctr. Registration is required. Mary Wood, Ext. 5923, or wood2@bnl.gov.

Mon., Tues., & Fri.: Tai Chi

12:15 - 12:45 p.m., Rec. Bldg. Scott Bradley, Ext. 5745, bradley@bnl.gov.

Tuesdays: Welcome Coffee

10-11:30 a.m. Rec. Bldg. Hospitality event. Come and meet friends. The first Tuesday of every month is special for Lab newcomers and leaving guests. Hospitality Chair Mimi Lucio, 821-1435.

Tuesdays: Toastmasters

Meetings are 1st and 3rd Tuesday of each month, 5:30 p.m.; 4th Tuesday at 12:05 p.m. in Bldg. 463. Guests, visitors always welcome. www.bnl.gov/bera/activities/toastmstrs/default.htm.

Wednesdays: Weight Watchers

noon-1 p.m., Brookhaven Center South Room. Mary Wood, Ext. 5923.

Wednesdays: Yoga Practice

noon-1 p.m., Rec. Bldg. Free. Ila Campbell, Ext. 2206.

Wednesdays: Stretch

5:15-6:15 p.m., \$4 per class. Rec. Bldg. Pat Flood, Ext 7886.

Wednesdays: BNL Ballroom, Latin & Swing Dance Club

6-9 p.m. North Ballroom, Brookhaven Center. Marsha Belford, belford@bnl.gov or Ext. 5053.

Thursdays: Falun Dafa Class

noon-1 p.m., Free. Rec. Bldg. Falun Dafa refines the body and mind through exercises, meditation. www.falundafa.org.

Tuesdays & Thursdays: Aerobics

5:15-6:30 p.m., \$4 per class. Rec. Bldg. Pat Flood, Ext 7886.

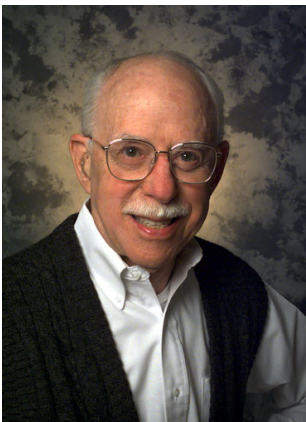
— THIS WEEKEND —

Friday, 1/11

Globe Club Meeting

The Gay, Lesbian, and Bisexual Employee Club at BNL will hold its monthly meeting where a discussion of legal issues that affect the GLBT community will be held. For more information, see www.bnl.gov/bera/activities/globe. For the meeting's time and location, contact Debbie Bauer, Ext. 5664, or Mike Loftus, Ext. 2960.

Richard Setlow Honored by 2001 Festschrift



Richard Setlow

In October 2001, the journal of the Environmental Mutagen Society, *Environmental and Molecular Mutagenesis*, honored BNL's Richard Setlow with its publication of "A Richard B. Setlow Festschrift," dedicated to the "Father of DNA Repair," in the year of his 80th birthday.

A 1988 Enrico Fermi Award Winner, Senior Biophysicist Setlow has, over his nearly 30 years at BNL, served as Biology Department Chair, 1974-86, and Associate Director for Life Sciences, 1986-99.

The Festschrift — which is a volume of articles contributed by many authors to honor a colleague or teacher — is edited by Tom Cebula, Phil Hanawalt, Larry Thompson, and Jack von Borstel. They note: "This special issue attests to the ongoing gratitude of many scientists for the scientific and personal impact of Dick Setlow upon their lives."

As the editors wrote in the foreword, "The tribute follows up on the major international conference on 'Cellular Responses to Environmental DNA Damage' held in 1991 in Alberta, Canada, to celebrate Setlow's 70th birthday. The remarkable advances presented at that meeting were merely a hint of things to come in this ever-expanding field that now intersects with each of the other essential DNA transactions: transcription, replication, recombination, and control of the cell cycle. It all began with the paradigm shift introduced by Dick Setlow's seminal discovery, that damage and imperfections in DNA can be reversed by cutting out and replacing the defective section of a DNA strand."

Papers in the special issue also comment on Setlow's earlier research, which, for example, is "of fundamental importance to understanding how viruses are chemically affected by UV light, as well as contributing to other biochemical aspects of radiation biology in the early 1950s."

— Liz Seubert

The table of contents and abstracts for the special issue honoring Setlow are at <http://www3.interscience.wiley.com/cgi-bin/issue/toc?ID=86511335>.

‘Speed’ Studies (cont’d.)

dopamine signal then becomes the only stimulus capable of activating the reward circuits, Volkow explained.

"These findings mirror those from a similar BNL study on cocaine abusers and may help explain why drug addicts lose control and take drugs compulsively," Volkow said.

In the second study, published in the December 1, 2001, issue of *The Journal of Neuroscience*, the researchers found that some of the damage caused by methamphetamine can be reversed by prolonged abstinence from the drug.

"These findings have implications for the treatment of methamphetamine abusers," Volkow said.

In this case, the researchers were interested in dopamine transporters, proteins that recycle dopamine. These transporter proteins have also been shown to be depleted in methamphetamine abusers.

In the current study, methamphetamine abusers who were able to stay drug-free for at least nine months showed significant improvement — with dopamine transporter levels approaching the level observed in control subjects.

The scientists, however, did not also see improvements in cognitive and motor function, which are impaired by the loss of transporters. Further studies will be necessary to assess these effects, Volkow said.

Both studies are coauthored by: Linda Chang, Gene-Jack Wang, Dinko Franceschi, and John Gatley of the BNL Medical Department; Joanna Fowler, Jean Logan, and Yu-Shin Ding of the Chemistry Department; and Mark Sedler and Robert Hitzemann of Stony Brook University.

In addition, Andrew Gifford, Christopher Wong, and Naomi Pappas of Medical are coauthors of the first study. Eric Miller of the University of California at Los Angeles is a coauthor of the second study.

— Karen McNulty Walsh

Longer reports on both studies can be found on the web at: <http://www.bnl.gov/bnlweb/pubaf/pr/2001/bnlpr120101a.htm> and <http://www.bnl.gov/bnlweb/pubaf/pr/2001/bnlpr120101b.htm>.

Arrivals & Departures

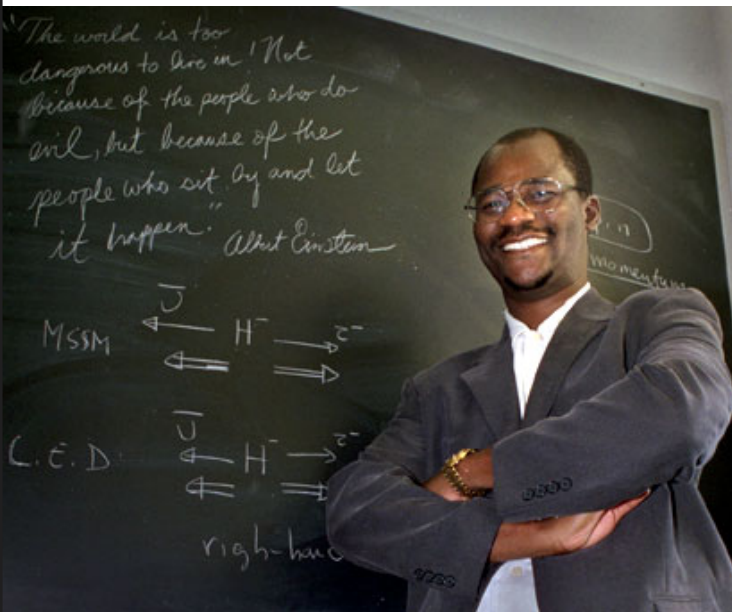
Arrivals

Brendan Brelsford C-A
Othniel Denis Fiscal
Jawaid Mansury Biology
Barbara Moebes Env. Rest.
Robert Porfert Jr. Reactor
Gregory Smith NSLS
Haitao Wu Medical

Departures

Patricia Durcan Budget
Thomas Dickinson C-A
Antoinette Insolia Budget
Bruce King Physics
Robert Kinsey ES&T
Mike Morrow Magnet
Norman Nilsson Plant Eng.
Elinor Norton Chemistry
Hiroaki Onishi Physics
Frank Perez Material Sciences
David Rahm Physics
Sharon Reeve Physics
Raymond Savino Physics
Richard Scott C-A
Judith Thompson NSLS
Thomas Wild Material Sciences
Vishnu Zutshi Physics

Physicist, Philosopher



Joseph Rubino CNI0-9-01

Ketevi Assamagan

BNL physicist Ketevi Assamagan has a quote from Albert Einstein — about the danger of being passive in the face of evil — scribbled on his office blackboard. "Einstein is one of my heroes, as a physicist and as a humanist," Assamagan says. "He speaks to the truth, that one should be proactive instead of not taking an interest."

Right now, Assamagan's interest is focused on his work: He is helping to design and build a muon spectrometer for ATLAS, one of two large, multipurpose detectors for the Large Hadron Collider (LHC), now under construction at CERN.

The LHC has several goals, including probing for new physics beyond currently accepted theories. Assamagan is most intrigued by the search for the elusive Higgs particle, a particle predicted by theory that should help explain the origin of matter, or how particles get their mass.

"If it does exist, it will basically legitimate our current understanding of electro-weak symmetry breaking."

Assamagan grew up in the West African nation of Togo. In high school, he chose to major in modern physics because he was good in math. He earned a bachelor's degree in Togo, then came to the United States as an exchange student, sponsored by the U.S. Agency for International Development.

Assamagan earned masters' and doctorate degrees from Ball State University and the University of Virginia, respectively. After doing post-doc work at Hampton University and Jefferson Lab, he went to CERN for a three-year appointment to begin his work on ATLAS and came to BNL last July to continue that work.

"I find this a very exciting field," he said, remarking on the opportunity to work with experienced people on fundamental research. "Plus, there is room for independent research and independent thinking and growth."

— Karen McNulty Walsh

Samios Is Awarded Pontecorvo Prize (cont’d.)

in Physical & Mathematical Sciences, and the 1993 W.K.H. Panofsky Prize. He was elected to the National Academy of Sciences in 1982 and is a Fellow of the American Physical Society and the American Academy of Arts and Sciences.

JINR established the Bruno Pontecorvo Prize to commemorate prominent scientist and academician B.M. Pontecorvo. Widely considered the father of experimental neutrino physics, Pontecorvo was born in Italy in 1914 and participated in many ground-breaking physics experiments there, as well as in the U.S., Canada, the U.K., and Russia. He died in Dubna, Russia, in 1993.

— Karen McNulty Walsh

Call for Nominations 2002 Gertrude S. Goldhaber Prize

Brookhaven Women in Science (BWIS) is now accepting nominations for the Gertrude S. Goldhaber Prize, which honors the late Gertrude Scharff-Goldhaber, the renowned nuclear physicist who, in 1950, became the first woman Ph.D. appointed to BNL's staff.

The winner of the \$1,000 award will be a female graduate student in physics, who will be recognized for her substantial promise and accomplishment. She will be expected to give a seminar on her work at the award ceremony in the spring.

To be eligible, the nominee must be an enrolled physics graduate student who is a candidate for a doctoral degree, but not to be graduated with that degree before spring 2002. She must either be enrolled at Stony Brook University (USB) or performing her thesis research at BNL.

BNL staff members and the USB Physics Department faculty may nominate candidates by the March 1 deadline. For more information or to make a contribution to the prize fund, contact BWIS Goldhaber Prize, P.O. Box 183, Upton, NY 11973-5000, or call Pam Mansfield, Ext. 7286.

BNL Adds \$24 Million-Plus To L.I.'s Economy in 2001

BNL purchased more than \$24 million worth of supplies and services from Long Island businesses in fiscal year 2001, a period from October 1, 2000, to September 30, 2001.

In addition to BNL's buying goods and services from Long Island vendors, the Lab has about 3,000 employees, most of whom live in Suffolk County and shop on Long Island. All told, employee salaries, wages, and fringe benefits accounted for almost 57 percent, or \$258 million, of the Lab's total budget of \$456 million.

In fiscal year 2001, BNL made 4,316 individual purchases on Long Island. Of those, 3,640 totaling over \$21.8 million were made in Suffolk County, and 676 amounting to almost \$2.7 million were made in Nassau County.

Mary-Faith Healey, Manager of the Procurement & Property Management Division, which handles the Lab's purchasing, said, "In this time of recession, Brookhaven, now more than

ever, seeks to be supportive of the Long Island business community."

Environmental cleanup and repair of BNL's aging infrastructure accounted for a large part of the local expenditures in fiscal year 2001.

For example, Bensin Contracting, Inc., of Holtsville was awarded almost \$2.5 million to install groundwater treatment systems to clean up chemicals at the southern boundary of the Lab.

Bancker Construction Corporation of Islandia was awarded a contract of more than \$1.6 million to implement improvements in BNL's wastewater treatment plant.

Bove Industries of East Setauket was paid over \$1.5 million to install sewers around the Lab's newest accelerator, the Relativistic Heavy Ion Collider, and to replace or install liners in three miles of existing sewers to prevent leaks or infiltration. The sewers are connected to BNL's wastewater treatment plant.

— Diane Greenberg

Green Seminar Quit Smoking or Lose Weight

A "Green Seminar" will be offered to BNLers who wish to quit smoking or lose weight, on Tuesday, January 29, 4-6 p.m., in Berkner Hall, at \$10/person.

The seminar combines the power of hypnosis with standard behavior modification techniques to help individuals quit smoking or lose weight after just one session. Tape and written material will be supplied, and free reinforcement will be provided as necessary.

For reservations, contact Mary Wood, Ext. 5923, or wood2@bnl.gov.

Toy, Clothing Donations Asked For Benefit Sale

The Upton Nursery School will hold a toy and clothing sale fundraiser on Tuesday, February 12, from 11 a.m. to 1 p.m., in the Rec. Bldg. in the apartment area.

Clothing and toy donations can be made on Tuesdays and Thursdays from 10 to 11 a.m. at the Recreation Bldg. Individuals may also sell their own items at the sale provided that 20 percent of profits are donated to the school. For table reservations, contact Lisa Fugelberg, 205-5128, or Simone Oppenheimer, 929-0043.

2002 New York City Train Trips

Discounted group trips to New York City on Wednesdays via the Long Island Railroad (LIRR) are arranged by the Brookhaven Tour Group and Patchogue-Medford Library.

The train trips are usually on the first, third, and fifth Wednesdays of each month, leaving from Patchogue at 7:56 a.m. Group members travel to the city together and return separately at any time that day. The round-trip cost is \$8 per person; \$9 or \$10 for fewer than 30 people. Children under five ride free. Times and fares may change.

To reserve for Wednesdays, mail a check payable to cash, to be received by the Monday before the trip, to Diane Weid, 645 Old Medford Ave., Patchogue, NY 11772. Include your name, phone number, and date of the trip. Or, call 475-2394 and leave your name, phone number, number of tickets needed, date of trip, and where you will board the train if not at Patchogue. Phone reservations must be paid in cash on the morning of the trip. Cancellations must be made before 9 p.m. the evening before. Emergency cancellations can be made by calling before 7:30 a.m. on the morning of the trip, but they are accepted only if the group will still have a minimum of 30 people. If you reserve by phone, do not cancel, and do not show up, payment is still due. Wednesday trip dates are:

Jan. 23, 30	July 17, 31
Feb. 20	Aug. 7, 21
Mar. 6, 20	Sep. 4, 18
Apr. 3, 17	Oct. 2, 16, 30
May 1, 15, 29	Nov. 6, 20
June 5, 19	Dec. 4, 11, 18

Gospel Extravaganza

Saturday, February 2
7 p.m., Berkner Hall



Among the performers will be the Joy of Life Ensemble from Riverhead, seen above with Director Rosa Palmore (center, front), who is in BNL's Human Resources Division.

To honor Black History Month, the BERA Afro-American Culture Club, with other interested BNL employees, will present a gospel concert on Saturday, February 2, at 7 p.m. in Berkner Hall. Featured will be:

- **Long Island Voices Foundation Mass Choir**
This Brentwood-based choir won first place in both the 1999 McDonald's Gospel Fest held at Madison Square Garden and the 2001 Pathmark International Gospel Competition held at the Apollo Theatre. The choir performed as backup singers for Whitney Houston and Mark Anthony for the 2000 Whitney Houston Save the Children Campaign Concert in Manhattan.
- **Gene Bridges and the Wings of Faith, Deer Park**
- **Joy of Life Ensemble, Eastern Long Island**
- **Rosemary Rogers, Southampton**
Rogers will sing solo gospel selections
- **Spiritual Stars, Riverhead**
- **First Baptist Church Dance Ministry of Riverhead**
These two Riverhead groups will perform praise-dancing, a form of worship through dance.

Refreshments will be served.

Purchase tickets at the BERA Sales Office, Berkner Hall, weekdays, 9 a.m.-3 p.m., Ext. 3347. Advance tickets: adults: \$12; children under 12, \$6. At the door, adult tickets will be \$15.

Retiree List Now on Web

The most recent listing of BNL retirees' mailing addresses, which was mailed to all retirees, may be found on the Web from a BNL computer at http://intranet.bnl.gov/docs/retiree_list_2001.pdf and printed out. Those without on-site computer access who require a paper copy may request one by calling Ext. 5053.

Thanks for Donations To Violence Victims

The Police Group of the Safeguards & Security Division warmly thanks the BNLers who donated money and gifts over the holiday season for victims in shelters protected by the Suffolk County Coalition Against Domestic Violence. Many contributions were received for the women, children, and infants being helped by the Coalition.

ANS Meeting, 1/16

At the next meeting of the Long Island Chapter of the American Nuclear Society (LIANS), Fulvia Pilat, Collider-Accelerator Department, will discuss the performance and challenges of the 2001 RHIC run.

The meeting will be on Wednesday, January 16, at the Brick House Brewery and Restaurant in Patchogue. Appetizers will be served at 6 p.m. and dinner at 7 p.m. Pilat's talk will begin at 8 p.m. The cost is \$25. Make reservations by Monday, January 14, by calling Arnie Aronson, Ext. 2606.

Recreation Lounge for Lab Guests

The Recreation and Quality-of-Life Guest Services Offices invite BNL guests and their families to sit by a fire in the fireplace, watch a TV show or movie, or borrow a book from the guest services library, which includes children's books.

All are available in the lounge of the Recreation Building, Bldg. 317, in the apartment area.

A computer and printer have also been set up in the lounge for use by BNL's guests and their families. The computer provides basic MS Word software and several children's software programs.

The lounge is open on Tuesday, Wednesday, and Thursday, from 5:30 to 9:30 p.m.

The lounge is also open every Tuesday from 10 a.m. until

noon for the weekly Hospitality coffee meetings, open to all BNL guests and their spouses. During this social event, people from different countries meet, find out about BNL activities, and learn about Long Island.

The lounge may also be reserved for special BNL-sponsored events. If you belong to a Hospitality, BERA, or other BNL-sponsored group which would like to hold a party or other event in the Recreation lounge, then call Recreation Supervisor M. Kay Dellimore, Ext. 2873.

For more information about the Recreation lounge, call Quality-of-Life Coordinator Karen Adelwerth, Ext. 4262; M. Kay Dellimore, Ext. 2873; or Hospitality Committee president Mimi Luccio, 821-1435.

Calendar (continued)

— WEEK OF 1/14 —

Tuesday, 1/15

BNL Toastmasters' Meeting
5:30 p.m., Biology Bldg. 463, Room 160. Guests, visitors welcome. Theme: All Things New. Margaret Conover, mcon@optonline.net; www.bnl.gov/bera/activities/toastmstrs/default.htm.

Wednesday, 1/16

Science Discussion Group
12:30-1:30 p.m., Berkner Hall, Room D. People who enjoy talking about science are invited to join this group to explore current scientific events and issues. Patrice Pages, Ext. 3270, pages@bnl.gov.

***Brookhaven Lecture**
4 p.m., Berkner Hall. David Welch, Energy Sciences and Technology Department, will present the 369th Brookhaven Lecture on Materials Science at the Nanoscale. See page 1.

Thursday, 1/17

Women Engineers' Networking
Noon, Berkner Hall. Contact Arlene Zhang, arling@bnl.gov; or Lorraine Merdon, merdon@bnl.gov.

Brookhaven Advocacy Council
Open session: 12:30-1:00 p.m., Berkner Hall, Room C. See www.bnl.gov/bac. Nancy Warren, Ext. 4200.

— WEEK OF 1/21 —

Tuesday, 1/22

BNL Toastmasters' Meeting
12:05-12:55 p.m., Biology Bldg. 463, Room 154. Guests, visitors welcome. Theme: Baby It's Cold Outside. Margaret Conover, mcon@optonline.net; www.bnl.gov/bera/activities/toastmstrs/default.htm.

Wednesday, 1/23

Noon Recital: Brazilian Guitars
noon, Berkner Hall. Known in Brazil as the "Dream Team," the rave-review-winning Brazilian Guitar Quartet includes Paul Galbraith, Edelson and Everton Gloeden, and Tadeu do Amarel. For more information, go to <http://music.bnl.gov>.

— WEEK OF 1/28 —

Tuesday, 1/29

***Quit Smoking / Lose Weight**
4-6 p.m., Berkner Hall. \$10. Green Seminar combines hypnosis with standard behavior modification techniques to help participants quit smoking or lose weight. For reservations, contact Mary Wood, Ext. 5923, wood2@bnl.gov.

Saturday, 2/2

***Gospel Extravaganza**
7 p.m., Berkner Hall. In honor of Black History Month. See notice, top of page. Buy tickets at BERA Sales Office.

— WEEK OF 2/11 —

Tuesday, 2/12

***Children's Toys, Clothing Sale**
11 a.m.-1 p.m., Rec. Bldg. The Upton Nursery School will hold a fundraising sale to benefit the school. See notice at left on this page.

Healthline Lecture
Noon, Berkner Hall. George Roach will present an update on elderlaw 2002 and discuss money matters in catastrophic illness. Mary Wood, Ext. 5923, wood2@bnl.gov.

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. Please enter the 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.

Employee Referral Award Program

The Employee Referral Award Program (ERAP) rewards employees who refer successful candidates for employment. For certain, specified jobs, BNL employees may recommend applicants to the Human Resources (HR) Division and subsequently receive a monetary reward if the referral is hired.

Procedure

When a new job is generated that the hiring department or division and HR decides is suited to ERAP, the Bulletin will advertise the position as one that will pay a referral award, including the amount of the potential award.

For currently available ERAP positions only, the referring employee must complete an ERAP form, attach it to the candidate's resume or application, and forward it to HR. The referring employee must be the first to recommend the candidate to HR. If the candidate's name is initially received from, for example, a recruitment firm, or received directly from the candidate, the referring employee will be ineligible.

Eligibility

Those eligible for an award must be current full-time or eligible part-time BNL employees and must be employed or on an authorized leave of absence at the time the award is given. Management-schedule employees, the specific hiring manager or supervisor for the opening, and exempt-level HR employees are not eligible. Current employees or retirees may not be referred. Former employees may be referred if they have left BNL for at least one year before the referral. The following types of jobs are not eligible for awards: scientific staff, temporary, contract labor, and student positions. Referrals for positions with term restrictions will be eligible if the duration of the term is one year or longer.

Award Levels, Payments

An award of \$1,000 will be made for referral and hire for an exempt-level position; \$500 for referral and hire for a nonexempt position. Payment will be made after the referred candidate has completed 90 days of employment. Funds for the award will come from the recruiting budget of the department or division involved.

For answers to questions about ERAP, contact Nancy Sobrito, Ext. 7996 or sobrito@bnl.gov; or Terrence Buck, Ext. 8715 or tbuck@bnl.gov.

BNL Food Drive

Pickup: Thursday, 1/17



Classified Advertisements

Placement Notices

The Lab's placement policy is to select the best-qualified candidate for an available position. Candidates are considered in the following order: (1) present employees within the department/division and/or appropriate bargaining unit, with preference for those within the immediate work group; (2) present employees within the Laboratory; and (3) outside applicants. In keeping with the Affirmative Action Plan, selections are made without regard to age, race, color, religion, national origin, sex, disability or veteran status. Each week, the Human Resources Division lists new placement notices, first, so employees may request consideration for themselves, and, second, for open recruitment. Because of the priority policy stated above, each listing does not necessarily represent an opportunity for all people. Except when operational needs require otherwise, positions will be open for one week after publication. For more information, contact the Employment Manager, Ext. 2882; call the JOBLINE, Ext. 7744 (344-7744), for a list of all job openings; use a TDD system to access job information by calling (631) 344-6018; or access current job openings on the World Wide Web at www.bnl.gov/JOBS/jobs.html.

OPEN RECRUITMENT – Opportunities for Laboratory employees and outside candidates.

MK2261. ASSISTANT PHYSICIST (S-1) - Requires a Ph.D. in nuclear or high-energy theory and at least two years postdoctoral experience. The Nuclear Theory Group has active programs in the theory of heavy ion collisions at ultrarelativistic energies and in the structure of nuclear physics. Appointments would begin in September, 2002. Under the direction of L. McLerran. Physics Department.

MK2259. POSTDOCTORAL RESEARCH ASSOCIATES - Requires a Ph.D. in nuclear or high-energy theory. The Nuclear Theory Group has active programs in the theory of heavy ion collisions at ultrarelativistic energies and in the structure of nuclear physics. Appointments would begin in September, 2002. Under the direction of L. McLerran. Physics Department.

MK2321. POSTDOCTORAL RESEARCH ASSOCIATE - Requires a Ph.D. in plant science, biochemistry, chemistry, or related discipline is required. Understanding of metabolism and molecular genetics, is desired. The successful applicant will be involved in work related to improving the quality of plant fatty acids and storage oils under the Oilseed Engineering Alliance CRADA. Under the direction of J. Shanklin, Biology Department.

MK2258. POSTDOCTORAL RESEARCH ASSOCIATE - Requires a Ph.D. in high energy physics. Position is with the High Energy Theory Group, which has active programs in electroweak physics, collider physics, perturbative QCD, spin physics and lattice QCD. Under the direction of S. Dawson, Physics Department.

MK2262. POSTDOCTORAL RESEARCH ASSOCIATE/ASSISTANT PHYSICIST (S-1) - Requires a Ph.D. in condensed matter physics or related field with experience in neutron or x-ray diffraction desirable. Position will be located at the NIST Center for Neutron Research (NCNR) in Gaithersburg, MD. Will be expected to

carry out forefront research in condensed matter science, which is important to the mission activities of both NIST and BNL. Current topics of interest include, but are not limited to, high temperature superconductors, correlated electron systems, low dimensional magnetism, ferro- and piezoelectricity and shape memory systems. Will interact strongly with the NIST staff and the BNL neutron community and engage in some activities, which are of benefit to BNL, NCNR and the general scientific public. Level of position is dependent on credentials of candidate. Under the direction of S. Shapiro, Physics Department/Center for Neutron Science.

NS2027. PROJECT ENGINEER II (P-7) / ENVIRONMENTAL COMPLIANCE REPRESENTATIVE - Requires a BS in science or engineering, advanced degree preferred, and a minimum of five years' experience in evaluation and application of environmental regulations to industrial and laboratory operations. Working knowledge of RCRA, CWA, CAA, SDWA, TSCA, CERCLA, and NYS and local environmental regulations is required, as is demonstrated familiarity with pollution prevention concepts, strong process engineering skills and ability to analyze projects proactively to identify and eliminate compliance problems and wastes. Familiarity with ISO 14001 is necessary. Responsibilities will include providing senior-level technical support to Departments/Divisions to ensure compliance with applicable laws, requirements, and BNL policy. Environmental Services Division.

TB2380. SR. ADMINISTRATIVE SERVICES ASSISTANT (A-3, reposting) - Will perform administrative duties for the Office of Research Administration, serve as secretarial support for the Institutional Animal Care and Use Committee, and assist in coordinating the processing of documents at Institutional Review Board meetings. Will be responsible for preparing meeting minutes and processing documentation according to complex federal regulations. Will have a wide variety of contacts within and outside the Laboratory. Requires an AAS degree, or the equivalent, with 6 years of administrative experience and sound knowledge of scheduling and database systems and MS Word. Must possess strong analytical, communication and interpersonal skills, and skills in record keeping, planning meetings, plus the ability to work independently within established procedures with changing priorities and deadlines. Familiarity with SBMS and Laboratory policies and procedures governing procurement and travel, as well as a working knowledge of PowerPoint, is desirable. Office of Research Administration/Director's Office.

TB2347. SECRETARY (CW – 2) - Will perform a variety of routine secretarial tasks for BES and EENS Directorate Offices. Typical assignments may include preparing correspondence, scheduling appointments, making travel arrangements, and other routine secretarial duties. Must possess basic secretarial skills, including excellent word processing skills and computer proficiency in MS Office products such as Word, Excel, PowerPoint, Access and Outlook. Must be knowledgeable of basic office practices and procedures; familiarity with Laboratory policies highly desirable. Must possess the ability to work under pressure, balance priorities, and perform multiple tasks. Energy, Environment & National Security / Basic Energy Sciences Directorates. (ERAP eligible - \$500)