

Center for Functional Nanomaterials Passes CD-3 Milestone

On August 5, 2005, BNL's Center for Functional Nanomaterials (CFN) project passed DOE's Critical Decision 3 (CD-3) milestone, which permits the start of construction of the building and procurement of equipment. The CFN will provide researchers with state-of-the-art capabilities to fabricate and study nanoscale materials, with the goal of discovering revolutionary energy technologies. These breakthroughs will impact the fields of hydrogen economy, solar energy, and environmental protection.

Said Lab Director Praveen Chaudhari, "The CFN is vital for this Laboratory's future, both in terms of the research it will enable our scientists to accomplish and its ability to act as a stepping-stone and complement to NSLS-II, the proposed next-generation National Synchrotron Light Source. Securing CD-3 required strong teamwork between the Laboratory and the Brookhaven Site Office. Congratulations to everyone who played a role in getting us to this point."

"I commend the members of the integrated project team for

their hard work and dedication," said Michael Holland, DOE's Brookhaven Site Office Manager. "The CFN is one of several DOE nanoscale research centers and it will allow new directions in BNL's materials and chemical research and expand the capabilities available for national users."

As Robert Hwang, CFN Director, concluded, "We had to overcome many challenges to reach this stage. I am extremely proud of and thankful to our entire integrated project team for the extraordinary efforts, skill and commitment to the project that

has brought us to this point. Our team has really come together and I am excited and confident as we move forward to the construction of the CFN."

Hwang explained that the construction contract will be awarded shortly, with physical construction expected to begin in early September and end in 2008. The CFN will cost about \$81 million to construct and will require some 40 new scientists over the next five years.

For more information on the CFN, see <http://intranet.bnl.gov/intranews/CFN-CD3.asp>.



CFN Director Robert Hwang

Five BNL Scientists Awarded Tenure

Brookhaven Science Associates (BSA) granted tenure on June 1 to five Brookhaven scientists. They are: Ivan Bozovic, Materials Science Department; Sergei Lyman, Chemistry Department; James Misewich, Materials Science; Werner Vogelsang, Physics Department; and Zhong Zhong, National Synchrotron Light Source Department.

Tenure appointments are granted by action of the BSA Board after a rigorous selection procedure overseen by the BSA Science & Technology Steering Committee. In making tenure decisions, the BSA Board is advised by members of the Brookhaven Council, an elected body that advises the Director on matters affecting the scientific staff.

The Bulletin describes the accomplishments of each of the five recently tenured scientists; this week, James Misewich is featured.

James Misewich

Colleagues of James Misewich had no shortage of praise for his work when recommending he receive tenure at Brookhaven:

"He is an outstanding scientist who is admired worldwide," "He is a world-class problem solver," "His scientific leadership is vital to the future of basic energy sciences at BNL," "The publications by Dr. Misewich are highly cited and belong to the 'classical' papers in this area."

spectroscopy, surface science, and nanoscale materials science. He is a very talented experimentalist, whose investigations have often dealt with difficult and intricate experiments, yet this work is renowned for its insightful and in-depth style of analysis, which leads to deep physical understanding."

Welch cited three of Misewich's major accomplishments — developing cutting-edge laser sources and techniques to study the properties of material surfaces; discovering that molecules attached to a surface may be forced to de-attach when illuminated by an extremely powerful laser; and his recent work showing that carbon nanotubes can emit infrared light when an electric current is run through them.

"Jim combines his thorough but imaginative and fundamentals-based style of research with a gift for collaboration and a talent for communication," wrote Welch. "He has demonstrated great leadership and vision in revitalizing materials science at BNL."

Misewich received his Ph.D. in physical chemistry from Cornell University in 1983. He then joined the quantum physics group at the IBM T.J. Watson Research Center, until he came to BNL in November 2002 as a senior materials scientist and Chair of the Materials Science Department.

— Laura Mgrdichian

Physics Renovates Hi-Bay Area

The newly renovated hi-bay area in the Physics Department's Building 510 hosted its first users the week of July 25th: the physics teachers of the QuarkNet program (see side bar). During that week, Laboratory Director Praveen Chaudhari and Peter Bond, Deputy Director for Science & Technology (Interim) visited the area.

"I applaud the efforts of all those involved who have restored the vitality of the hi-bay area where we can build and conduct experiments," Chaudhari said. "I especially appreciate the integration of management, scientists, and engineers who worked diligently to make this happen."

The hi-bay area, originally built in the 1960s, had been used for many past experiments, including the construction and assembly of part of the

PHENIX detector for the Lab's Relativistic Heavy Ion Collider. Experiments then moved elsewhere as the hi-bay interior continued to age.

In 2003, Thomas Muller, an engineer in Physics, came up with the idea of refurbishing the area.

"I felt that after more than 40 years of experiments' being built and created in the hi-bay, we should modify the area for a new generation of scientific discoveries," says Muller. "Two important changes that were needed were an entry on the south side of the building and four electrical drops to accommodate multiple projects simultaneously."

The Shepard Niles 15-ton crane, a key component of the hi-bay, was in fairly good condition and was easily refurbished, but the remainder of the area needed extensive repair work. With the

(continued on page 2)

'Quarknet' First User Of Renovated Hi Bay

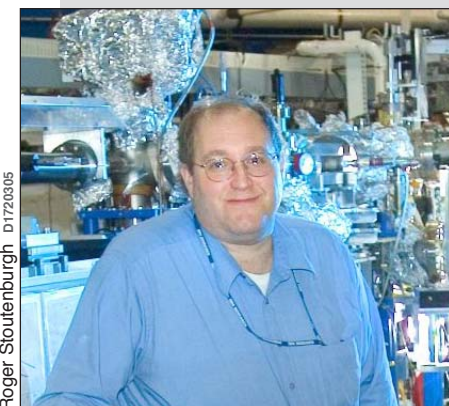
Helio Takai, lead physicist for the ATLAS educational outreach program, "QuarkNet," says he feels honored to lead the first group to use the newly renovated hi-bay area. ATLAS is one of four experiments located at the Large Hadron Collider (LHC) now under construction near Geneva, in Switzerland and France. The main goal of ATLAS is to find the source of mass or, more technically, the reason for electroweak symmetry breaking. BNL involvement includes designing and fabricating two subdetectors.

QuarkNet is an ATLAS outreach program sponsored by the National Science Foundation and the Division of High Energy Physics within DOE's

(continued on page 2)



Lab Director Praveen Chaudhari (front, second from right) and Interim Deputy Director for Science & Technology, Peter Bond (fourth from right), visit the newly refurbished hi-bay area in the Physics Department that now includes a user and storage area and four electrical drops. With them are: (from left) Michael Viscusi, Plant Engineering Division (PE); Hamid Talai, PE; Robert Liegel, Physics; Thomas Muller, Physics; Samuel Aronson, High Energy & Nuclear Physics; Helio Takai, Physics; Sally Dawson, Physics. In the background an instructor gives a lecture to teachers and students participating in the QuarkNet program.



These comments and many more rolled in to support Misewich, Chair of the Materials Science Department, who was granted tenure for his research in the fields of complex materials and nanoscience. Deputy Materials Science Chair David Welch and Associate Laboratory for Basic Energy Sciences Doon Gibbs recommended him for the honor.

Welch wrote, "Jim's scientific accomplishments span a remarkable range in the fields of chemical physics, laser

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 Chris Carter, Ext. 2873.
- Additional information for Hospitality Committee events can be found at the Recreation Bldg. and at the laundry, both 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 —

Weekdays: Free English for Speakers of Other Languages Classes

Beginner, Intermediate, and Advanced classes. Various times. All are welcome. Learn English, make friends. See www.bnl.gov/esol/schedule.html for schedule. Jen Lynch, Ext. 4894.

Mondays: BNL Gospel Choir

5:15-7 p.m. Berkner Hall. All faiths are welcome. www.bnl.gov/bera/activities/choir/.

Mondays & Thursdays: Kickboxing

\$5 per class. Noon-1 p.m. in the gym. Registration is required. Christine Carter, Ext. 5090.

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

Noon-1 p.m., Brookhaven Center North Room. Adam Rusek, Ext. 5830 or rusek@bnl.gov.

Tuesdays: Welcome Coffee

10-11:30 a.m., Rec. Hall. First Tuesday of every month is special for Lab newcomers and leaving guests. Meet in the gazebo in the apartment area. Lisa Yang, 979-3937.

Tuesdays: BNL Music Club

Noon, North Room, Brookhaven Center. Come hear live music. Joe Vignola, Ext. 3846.

Tuesdays: Jiu Jitsu Club

6:30-7:30 p.m. in the gym. All levels, ages 6 and above. \$10 per class. Tom, Ext. 4556.

Tuesdays: Toastmasters

1st and 3rd Tuesday of each month, 5:30 p.m., Bldg. 463, room 160. Guests, visitors always welcome. www.bnl.gov/bera/activities/toastmasters/default.htm.

Tues., Wed. & Thurs: Rec Hall Activities

5:30-9:30 p.m. General activities, large-screen TV, ping pong, chess, games, and socializing. Christine Carter, Ext. 5090.

Wednesdays: On-Site Play Group

10 a.m.-noon. Rec. Hall. An infant/toddler drop-in event. Parents meet while children play. Meet in the apartment area playgroup. Fang Dong, 871-5362.

Wednesdays: Farmer's Market

11:30 a.m.-1:30 p.m., Berkner Hall parking lot.

Wednesdays: Weight Watchers

Noon-1 p.m. Michael Thorn, Ext. 8612.

Wednesdays: Yoga

Noon-1 p.m., Brookhaven Center. Free. Ila Campbell, Ext. 2206, ila@bnl.gov.

Thursdays: Reiki Healing Class

Noon-1 p.m., Bldg. 211 Conference Rm. Nicole Bernhole, Ext. 2027.

Fridays: Family Swim Night

5-8 p.m. at the BNL Pool. \$5 per family.

Fridays: BNL Social & Cultural Club

6-9 p.m., North Ballroom, Brookhaven Ctr., dance lessons, 9-11:30 p.m. general dancing. Rudy Alforque, Ext. 4733, rudy@bnl.gov.

— THIS WEEKEND —

Friday, 8/12

***BNL Science Museum Open**

11:30 a.m.-1:30 p.m. BNL Science Museum. The Lab community, with their families and friends, may visit the museum. The gift shop will also be open. Children under 14 years old must be accompanied by an adult.

Sunday, 8/14

***Summer Sundays: Celebration and Music Festival**

10 a.m.-3 p.m. All are welcome. See notices, pages 3 & 4. This Sunday's features include a special talk on Camp Upton history, "Historic BNL Site" bus tours, the "Einstein and Beyond Magic Show," the Lab glassblower demonstrating his work, and a Summer Music Festival with blues, rock, reggae, and drums.

— WEEK OF 8/15 —

Wednesday, 8/17

Marriott Residence Inn Demo

11 a.m.-2 p.m., Berkner Hall. Representatives from Marriott Residence Inn in Holtsville, a few exits west of the Lab, will present available services and discounted rates. A raffle drawing will be held. Contact Donna Chider, 475-9500, Ext. 4908, dchider@colwenhotels.com.

***BSA Noon Recital**

Noon, Berkner Hall. Violinist Stephanie Mocilan and pianist Pavel Bogomiakov will perform at the BSA-sponsored Noon Recital. All are welcome. Visitors of 16 and over must carry a photo ID. See notice, page 3.

Meet the Riveras, BNL's 'Family Vending' Service

Hamlet Rivera and his family operate a vending machine business named "Family Vending." Together with his wife Christine and his brother Kenny, Rivera provides and services the vending machines throughout the Lab site.

Rivera, who is visually impaired, was granted the vending contract through the New York State Commission for the Blind under the federal Randolph-Sheppard Act. This legislation was adopted in 1936 for the purposes of providing blind persons with gainful employment. Further, it authorizes visually impaired, licensed vendors to provide vending services on any federal property.

"I was really happy when we were granted the vending contract at the Laboratory," says Rivera. "My family and I are very grateful for the opportunity to provide our service to BNL employees."

Says Jeff Swenson, Manager of the Staff Services Division, "We are happy to work with the New York State Commission for the Blind in the placement of visually impaired vendors. The process for the Lab is fairly simple: the Commission selects a vendor for us, and then we welcome that vendor in to the Lab community."

Ruth Comas, the Lab's Conference Services Manager and the primary Lab contact person



At a vending machine in the National Synchrotron Light Source lobby are: (from left) Ruth Comas, Staff Services; Kenny Rivera and Hamlet Rivera, Family Vending; and Jeffrey Swenson, Staff Services.

for Rivera and his family, says, "Hamlet and his family have worked really hard to meet the vending needs of the BNL community. They have provided

new machines and are always receptive to new ideas that will improve their service. I think the contract with Family Vending has been a two-way partnership

that has benefited everyone." Contact Ruth Comas, Ext. 3545, for comments or suggestions regarding the vending services. — Jane Koropsak

In Memoriam

Althea Glines, who joined BNL on June 1, 1952, as a junior chemist in what became the Department of Nuclear Energy, died on March 14, 2004, at the age of 93. She was named an associate chemist in 1955, and she retired from the Lab on June 30, 1977.

Leonard Bacelli, who joined the Lab's Electrical Shop as an electrician A on February 2, 1959, died at 86 on March 5, 2005. He rose to Group Leader in 1982 and retired from the Plant Engineering Division on September 30, 1994.

Ronald Tallon, who became an electrician A in the Plant Engineering Division on June 1, 1982, and retired on May 18, 2001, died on June 15, 2005. He was 66.

Charles Johnson, who joined the Plant Maintenance Division on March 4, 1963, as a custodian, and retired from Plant Engineering on December 31, 1998, as Rigger Group Leader, died at 69 on July 13, 2005.

Charles Sponheimer, who came to BNL's Machine Shop as a machinist B on May 10, 1948, and left the Alternating Gradient Synchrotron Department on December 31, 1980, having risen to the position of Technical Supervisor I, died on July 14, 2005. He was 86.

Physics Department Renovates Hi-Bay Area

support of Samuel Aronson, Associate Laboratory Director for High Energy & Nuclear Physics, who was then Physics Chair, Muller formed a project team with Robert Liegel, Building Manager for Physics, and the Plant Engineering Division's Infrastructure Manager Thomas Timko, Architectural Engineer Hamid Talai, and Construction Inspector Michael Viscusi to brainstorm a renovation plan.

To obtain funding, Aronson initiated an activity data sheet to submit to the Project Planning, Programming and Budgeting Process Program. The project was reviewed and approved by the Policy Council and the Lab Director.

"It was a two-year process from beginning to end, but the construction phase went quickly once it started in May 2005," says Talai, who was the project architect. "We added and re-

placed doors, including one on the south side, changed windows for thermal efficiency, and treated and restored the floor with non-skid paint. We replaced the lighting and heating systems with up-to-date units, and added four electrical drops. A user room and storage area were also constructed so that scientific users and collaborators can set up shop and bring in computers and other necessary equipment."

"The committee worked together seamlessly," said Sally Dawson, now Physics Chair. "This renovation project will allow us to construct new com-



(cont'd.)

ponents for RHIC and the telescope project that is on the horizon. It is an extremely useful and unique tool for the entire Laboratory."

Adds Aronson, "Right now many physics experiments are scattered around the Lab site. The renovation of the hi-bay area will allow us to bring the far-flung efforts back home to the Physics Department."

— Jane Koropsak

'Quarknet' First User Of Renovated Hi-Bay

(cont'd.)

Office of Science, designed for physics teachers who conduct experiments at the laboratory that can later be taught to students in a classroom setting (see The Bulletin, July 30, 2004).

Says Takai, "The program is now in its fifth year. We have many teachers who return every year, and some who are new to the program. Everyone offers a different perspective; and that is what keeps the program thriving. We are continuously working toward building new learning modules based on the experiments conducted here at the Lab." — J.K.

Summer Music Festival at BNL Joins With Summer Sundays, 8/14



Joseph Rubino A00107025



Sponsored by the BNL Music Club, the fourth annual outdoor summer music festival will be held at BNL from noon until 6 p.m. on Sunday, August 14. Part of the Lab's Summer Sundays program, the free public concert will feature blues, rock, reggae, and a combination of drumming and martial arts.

The concert will be held on the lawn next to Berkner Hall, rain or shine. Visitors to the Lab age 16 and over must bring a photo ID. All concertgoers are advised to bring their own blankets or chairs. Also, the BNL Music Club encourages everyone to bring a nonperishable food item for the BNL Food Drive, which benefits local pantries in Brookhaven Town.

Featured live on stage at the concert will be Sam "Bluzman" Taylor, Long Island Music Hall of Fame inductee; Brookhaven employee George Bostick and Blues House, playing Chicago and electric blues; the classic rock Doug Gordon Band with BNLers Gordon and Richie Kurz; T-Man and the Aggression, a reggae band; and Ryu Shu Taiko, performing an exciting blend of martial arts, folk dance, and drumming.



Joseph Rubino A0070702

Summer Fun On Fridays At BNL Science Museum

The on-site BNL Science Museum will be open for BNL employees, their families and friends, 11:30 a.m.-1:30 p.m. on all Fridays in August, including today, August 12. Visit the Museum to experience hands-on exhibits and view new images in the 3D Visualization Theater.

The Museum gift shop will be open for purchases. An adult must accompany children under 14 years old.

Arrivals & Departures

Arrivals

none

Departures

Joseph Curtiss S&H Svcs.

Diabetic Wellness

The Health Promotion Program wishes to survey the needs of employees who are diabetic, for future programs. If you are interested in answering a short questionnaire, contact Michael Thorn, RN, Health Promotion Coordinator, Ext. 8612.

Safety Shoe Office

The Safety Shoe Office will be closed from August 18 through 25. It will re-open on August 29.

BNL FOOD DRIVE



But none of that has to stop your giving to the BNL Food Drive! Please give generously. Needy families in Brookhaven Town are hungry. Please bring canned goods to fill the containers marked BNL FOOD DRIVE in each building on site. Thank you.

Bus Trip to Cradle of Aviation, 8/24

On Wednesday, August 24, join a trip to the Cradle of Aviation Museum to learn about the history of flight, with actual planes and rocket ship machinery to look at and touch. In addition, in the giant IMAX Dome theater at the museum, you will see a great movie about the ocean.

The trip, which is sponsored by the English for Speakers of Other Languages Program, costs \$10 per adult and \$8 per child, which includes bus, museum and film entry. The bus will leave the Recreation Building in the apartment area at 9:30 a.m. and depart from the Cradle of Aviation at 3 p.m. You may bring lunch to eat at the museum café or buy lunch there. Buy tickets from Jennifer Lynch, Bldg. 179B, Ext. 4894 or lynch@bnl.gov.

Cruise to Music on Port Jeff Ferry, 8/17

The Hospitality Committee invites the BNL community of all ages to join a Port Jefferson Ferry Sunset Cruise on Wednesday, August 17. During the voyage to Bridgeport and back, King Wellington & The Earth Peoples will play reggae music, or passengers can mount to the top deck to enjoy the wind and waves more quietly. Meet at the Port Jefferson ferry building at 5:15 p.m. and buy tickets on the boat, \$12/adults, \$7/children 5-12. Snacks and drinks may be purchased on board, or you can bring your own picnic. The boat will return by 9 p.m. Some parking is available in the ferry lot. For more information, contact Lisa Yang, 878-3937 or lisayang@optonline.net.



BSA Noon Recital, 8/17 Mocilan, Bogomiakov Perform



On Wednesday, August 17, all are invited to the next BSA Noon Recital in Berkner Hall, where violinist Stephanie Mocilan and pianist Pavel Bogomiakov will be performing works by Grieg, Fauré and Liszt.

Mocilan, who has performed for Queen Elizabeth, Gerald Ford, Jimmy Carter, Ronald Reagan, and George Bush Sr., moved to Long Island in 1990. Her activities include performing in the Sound Symphony for several years and giving public recitals on the East End. Currently, she performs with The Hampton Chamber Orchestra.

Born in Novosibirsk in Siberia, Russia, Bogomiakov began playing piano at the age of five, and soon was accepted to the State Conservatory. While there, he won first place in two international piano competitions and received a gold medal. In 1999, he came to the U.S. to study piano at the pre-college division of The Juilliard School. He then pursued a biology major at Southampton College, where he also played accompaniment for three musical plays that the College presented. Currently working at BNL as a summer student, he will go to Johns Hopkins University in the fall.

Operation Phone Home

The Upton Post Office is encouraging people to participate in the U.S. Postal Service's "Operation Phone Home Program." This program sends phone cards to the men and women serving overseas to allow them to keep in touch with their families. You may purchase and donate the phone card at the Upton Post Office to be distributed to local service members. If you have family members or friends who are serving, give their names and addresses to the Post Office staff, who will see that they receive a phone card.

The price of a card is \$10 or more, but you may also place a donation for whatever you can afford in a bucket that will be on the counter. This group fund will be used to buy and donate more phone cards. For more information, call Ext. 2539.

BWIS Seminar, 8/18 Mentoring Programs For Women in Science

Mary L. Pavone, Director of the Women in Science Project (WISP) at Dartmouth College, will give a Brookhaven Women in Science-sponsored seminar titled, "Shaping the Circle of Science with Mentoring, Active Learning & Community," on Thursday, August 18, at noon in Berkner Hall. All are welcome.

For more information, contact Lynne Ecker at Ext. 2538, or lecker@bnl.gov.

Farmer's Market With Music!

The Farmer's Market will be outside Berkner on August Wednesdays, 11:30 a.m.-1:30 p.m. Buy fresh produce, handmade jewelry and baby clothes, beaded sandals, piñatas, herbal soaps and lotions, as well as coffee, tea, textiles, and paintings.

In addition, a BNL Music Club member will perform for the enjoyment of passersby. For more information, call Joanne Rula, Ext. 8481.

Donate School Supplies

Back packs, pads, pens and pencils, folders, glue, and all general school supplies are being collected to help local children in need. Drop donations at Building 179B in the Quality of Life/BERA/Recreation Office; or send a check made payable to BERA so that supplies can be purchased for those in need.

Calendar

(continued)

Wednesday, 8/17 (cont.)

ASAP Party

5 p.m. Ball field gazebo or the lounge, Bldg. 720, in case of rain. BNL's Association for Students & Postdocs (ASAP) will hold a party for students and postdocs. Food, soft drinks will be provided. Bring music.

*Sunset Cruise on Port Jefferson Ferry

5:15 p.m. Port Jefferson ferry building. All Lab community family and friends are welcome to join a group of BNLers who take the ferry to Bridgeport, CT, and back to watch the sunset over the water, listen to reggae music by King Wellington and The Earth Peoples, or just relax. Sponsored by the Hospitality Committee, the tickets are \$12/adults, \$7/children 5-12. Bring a picnic or buy snacks on board. Boat returns by 9 p.m. See also notice on page 2. Contact Lisa Yang, 878-3937 or lisayang@optonline.net.

Thursday, 8/18

*BWIS Seminar: Mentoring Programs

Noon. Berkner Hall. All are welcome to attend a Brookhaven Women in Science (BWIS)-sponsored seminar, "Shaping the Circle of Science with Mentoring, Active Learning & Community," by Mary Pavone, Director of the Women in Science Project at Dartmouth College.

Friday, 8/19

*BNL Science Museum Open

11:30 a.m.-1:30 p.m. BNL Science Museum. The Lab community, with their families and friends, may visit the museum. The gift shop will also be open. Children under 14 years old must be accompanied by an adult.

Sunday, 8/21

*Summer Sundays: RHIC

10 a.m.-3 p.m. See notice, page 4. The facility to be featured is the Relativistic Heavy Ion Collider. Learn how scientists probe matter thought to have existed at the dawn of the universe.

— WEEK OF 8/22 —

Wednesday, 8/24

*Bus Trip to Cradle of Aviation Museum

9:30 a.m. Recreation Bldg. in apartment area. Bus will depart for the Cradle of Aviation Museum in Nassau County. Touch real planes and rocket-ship machinery, see movie at giant IMAX Dome theater. Bus will depart the Aviation Museum at 3 p.m. Sponsored by the English for Speakers of Other Languages Program, the trip costs \$10/adult, \$8/child, which includes bus, museum, and film entry. Buy tickets from Jennifer Lynch, Bldg. 179B, Ext. 4894 or lynch@bn.gov.

Wed. & Thurs., 8/24-25

Verizon Wireless Demo

11 a.m.-2 p.m., Berkner Hall. Representatives from Verizon will present BNLers with special rates on their wireless products and services. For more information, contact Edwin Kang, 516-459-2635.

— WEEK OF 9/5 —

Tuesday, 9/6

Trip to U.S. Open

8:30 a.m. Lab tennis courts parking lot. Bus departs to the U.S. Open Tennis championships at the National Tennis Center. Bus departs Center at 7:30 p.m. \$65 per person includes admission (now \$45), the roundtrip bus fare, and tip for the driver. Buy tickets at the BERA Sale Office in Berkner Hall, Ext. 3347.

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.

Retirement Counseling

A TIAA-CREF consultant will visit BNL on August 16, 22, 30, and 31, to answer employees' questions about financial matters. The consultant will help you with: protecting assets against inflation, finding the right allocation mix for you, learning about TIAA-CREF retirement income flexibility, comparing lifetime income vs. cash withdrawal options. For an appointment, call Kathy Murphy, (866) 842-2053, Ext. 4625. (Not the on-site Ext 4625.)

Lab Open Through 8/21 • Celebration Sunday This Sunday

Summer Sundays

This summer, combine free family fun and learning something about the tremendous discoveries, both past and ongoing, at the Lab by visiting BNL on a Summer Sunday. You can try out interactive exhibits, see an entertaining science show, and each week, tour a different facility and meet a scientist who will tell you in nontechnical terms about some of BNL's forefront research.

Summer Sundays run through August 21. No reservations are needed. Visitors, including anyone from the Lab community, may arrive at any time between 10 a.m. and 3 p.m. All visitors age 16 and over must bring a photo ID.

Every Sunday, the educational and entertaining "Whiz Bang Science Show" will be staged at 10:30 a.m., noon, and 1:30 p.m. On 8/14, the Magic Show will be held at 3 p.m. In addition, visitors may test their creative and problem-solving skills at the Brain Teasers exhibit in Berkner Hall lobby. Artifacts from Camp Upton — the U.S. Army base that occupied the Lab site during World Wars I and II — will also be on display. The Summer Sunday schedule of facilities to visit follows:

8/14 — Celebration Sunday: This Sunday will feature a celebration of the World Year of Physics, visitors will be able to watch the prize-winning Lab glassblower as he performs his art, enjoy a special talk on Camp Upton history, marvel at a new "Einstein & Beyond" Magic Show (3 p.m.), take a bus for a Historic Brookhaven Lab Site Tour, get intrigued by the robot built by William Floyd High School students with some BNL assistance, learn surprising information about the physics of sports such as frisbee-playing, see models of historic Lab facilities and talk to scientists who worked there, admire the magnificent machines owned by the Lab's Antique Car Club and Cyclotron Motorcycle Club, blow weird and giant bubbles, draw on the sidewalk — and, as well as all this, experience the compelling rhythm of Long Islanders' blues, rock, reggae, and drums in a Music Festival (see notice on page 3).

8/21 — Relativistic Heavy Ion Collider: Probe matter thought to have existed at the beginning of the universe.



Joseph Rubino D0040804

Visitors to the Lab this Sunday will not see Einstein (right), but they will see glassblower Barry Laffler (above), and a magic show, "Einstein and Beyond."



Joseph Rubino D1270804



Courtesy of the Archives, California Institute of Technology

Classified Advertisements

The following positions have been exempted from the freeze by the Deputy Director:

OPEN RECRUITMENT – Opportunities for Laboratory employees and outside candidates. TB2888. PROJECT ENGINEER II (P-7, reposting) - Requires a bachelor's degree in nuclear, electrical or mechanical engineering, or health physics, and at least six years' experience in radiation protection, instrument calibration, measurement quality assurance techniques, and development of radiation protection instrument calibration policies/procedures. Excellent oral and written communication skills are required. Computer skills, specifically in MS Office applications and SQL databases, especially SYBASE, are highly desired, as is knowledge of pertinent regulations, DOE orders, and industry consensus standards (e.g., 10 CFR Part 830.120, 10 CFR Part 835, ANSI N323A, ISO/IEC17025). Under general direction, will be responsible for implementing and maintaining a measurement quality assurance program that ensures compliance of the Division's Instrument Calibration Program to DOE regulations, prime contract requirements and to enable the RCD to achieve Health Physics Society calibration laboratory accreditation. Will be responsible for planning, budgeting, scheduling, coordinating, and performing phases of the work required to meet this primary responsibility. This work includes development and maintenance of calibration laboratory procedures, performance of routine program self assessments, providing engineering oversight to instrumentation technicians, maintaining traceability of all M&TE and radiation calibration standards, calibration of instrumentation, maintaining group training systems, and leading the group quality improvement team. Radiological Control Division.

NS3442. ADVANCED TECHNOLOGY ENGINEER (I-7) – Requires a bachelor's degree or equivalent, preferably in computer science or related discipline, and a minimum of 5+ years hands-on experience in providing installation, configuration and troubleshooting for LAN and WAN environments. Experience with major network operating systems and protocols (Cisco IOS, TCP/IP, OSPF, BGP, HSRP, VLAN, Authentication, 802.11, QoS, DNS, DHCP, Linux, Solaris) and extensive hands-on experience configuring and installing a wide variety of network hardware and software components (Cisco 6500 series MLS, Catalyst L2 switches) with minimal supervision required. Demonstrated knowledge of Network Management tools (Cisco Works) and verifiable proficiency in their use a must, as is hands on experience configuring and managing PIX firewall and VPN technology are also required. CCNA certification at a minimum (CCNP preferred), demonstrated planning, documentation, organizational, customer service, and excellent communication skills are a must. Must be available to perform network maintenance 24x7x365, as required, and be willing to serve as weekend on-call duty network engineer approximately one weekend a month. Information Technology Division.

Motor Vehicles & Supplies

04 CADILLAC CTS SEDAN - all pwr., loaded, V6 3.6L eng., gar., 4 dr. all leather. 18K mi. \$25,000/neg. 974-2239 or 924-0663, Ext. 4.

04 VW JETTA GLS - 1.8 Turbo Tiptronic a/t, p/w, p/l, abs, s/roof, Monsoon sound sys, warr. 16K mi. \$16,250/neg. David, Ext. 7277.

03 MERCEDES C240 - 4matic wagon, V6, pwr. s/roof, CD changer, http://usr.v7.com/ts/21K mi. \$24,900/neg. Taka, Ext. 8408.

01 CHEVY SUBURBAN - 8-cyl, fully loaded, 4-wheel dr., seats 9, new tires, excel. cond., 56K mi., \$17,000/neg. 516-982-3470.

01 HONDA ODYSSEY LX - 6-cyl. CD and roof rack. Excellent condition. 49K mi. \$14,500/neg. Andy, 516-315-9238.

99 MERCURY GS SEDAN - dark green, a/t, radio, no cooler, available around 27th Aug. 81K mi. \$2,500/neg. Taka, Ext. 8408.

99 MERCEDES BENZ C280 - leather, pwr m/roof, Bose 6CD sound, 1 owner, garaged, excel. cond. 38K mi. \$11,500. Ext. 2913.

96 CHRYSLER CIRRUS LXI - 4-cyl, a/t, a/c, abs, c/c, p/w, leather, good cond, recent insp. 75K mi. \$2,800/neg. Mark, Ext. 2247.

96 FORD MUSTANG GT - 4.6, 5-spd., posi rear, fr. end damaged, 907a title, red w/tan leather. 64K mi. \$2,600. Ext. 7182 or 433-7136.

95 ACURA INTEGRA - Hatchback, 5 speed, all power acces., am/fm/cass, sun roof, mint condition. 70K mi. \$4,250. 473-5092.

95 JAGUAR XJ6 - VDP, flamenco/biscuit. Southern car, runs very well, clean, but not perfect. 95K mi. \$5,000. Tom, Ext. 8244.

93 AUDI 100S - 6cyl, 4dr, a/t, abs, a/c, p/b, p/s, p/w, p/t, c/c, am/fm/cass, s/roof, runs well. 120K mi. \$2,900/neg. Paul, 631-878-1486.

91 TOYOTA PREVIA ALL TRAX - in excel. shape, mech. and exterior, blue, one owner, a/t. 139K mi. \$3,300/neg. Charles, 525-7208.

91 JAGUAR XJ6 - runs. \$1,000. 395-3484.

86 ALLEGRO MOTOR HOME - 31' clean camper. p-30 chasis, Chevy big-block motor. Sleeps 5. 29K mi. \$8,000/neg. 399-6457.

8' PICKUP CAP - white, fiberglass, excel. cond. \$500. Roy, Ext. 4843 or 727-6714.

Boats & Marine Supplies

23' CHRYSLER I/O - hull camper top (w/ screens & windows), & outdrive, excel. cond. \$1,200/neg. Dennis, Ext. 4028 or 375-8519.

Furnishings & Appliances

AIR CONDITIONER - 28,000 Btu Friedrich window unit, 2 yrs. young, 3 yrs. service warr. remains, \$1,000/neg. Ext. 3085 or 744-4535.

AUDIO/TV RACK - large black audio and TV stand, 5' wide, 50" tall, 20" deep, glass front on audio, \$100. David, 631-395-3484.

BEDROOM - waterbed frame, queen-size platform w/mirrored hdbd. \$150; 2 brass lamps/2 ceramic \$25 ea. neg. 205-0373.

CRIB - Childcraft, blond wood, excel. cond., \$85; Pergo stroller, like new, \$50. Pick up in Rocky Point. Michael, Ext. 8586 or 209-0386.

CLOCK - 1950s grandmother clock, maple, brass face, needs some work. \$500. Randi, 631-395-3484.

DESK - office desk \$150 neg.; torch lamps \$25 neg.; curio case \$50 neg. 205-0373, leave message.

DRESSING TABLE - Pali, blond wood, excel. cond. \$45. Ext. 8586 or 209-0386.

FURNITURE - Pine, early American, hutches, prof. office desk. 208-0408.

FURNITURE - Master bedroom, sofas, love seats, dining room buffet, oak dinette set, office desk. Jane, 473-5092.

HUTCH W/TABLE - Solid one-piece antique hutch, table w/ctrbrd, 3 chairs. Must sell, \$350/neg. Leave message, 205-0373.

ICE CREAM MAKER - Rival, electric. Works well. \$5. Ext. 7132 or 793-4551.

MOVING SALE - Beds, tables, desk, Futon, chest, more. See http://tinyurl.com/dqwo3. Taka, Ext. 8408.

PATIO SET - 6 gray aluminum arm chairs w/ gray sling seats and rectangular tempered glass table. Ask \$150. Kevin, Ext. 6185.

SLEEP SOFA - dble., gr/white stripes, linen w/pillows, gd. cond., \$200; 7 ft sofa & 6 ft chaise lounge, pillows, \$400/set. 395-3484.

TV STAND - lg. black. Randi, Ext. 7794.

WALL OVEN - practically new 24" Magic Chef gas wall oven in pristine cond., used only 2 times, must sell, \$200. 514-9871.

Audio, Video & Computers

CD PLAYER/RECORDER - Aiwa dual-tray audio CD-R/RW. 2X/4X synchro dubbing. Remote ctrl. Like new. \$60. Gary, Ext. 7045.

COMPUTER - 2.2 GHZ, 1GB RAM, DVD/ burner, 300GB HD, 256MB video, WinXPPro, Off2K3Pro, mon, kybrd, mse, spkrs. 471-2991.

COMPUTER - COMPAQ d/top, Pentium III 1GHz, 2 hds: 40/30 GB, DVD CD brner, 15" col mon. Ask \$100. Ext. 4531 or 331-3785.

RACK STEREO - Fisher amp, tuner, CD, cassette deck w/Sansui speakers. Ask \$150 neg. 205-0373, leave message.

Sports, Hobbies & Pets

CONCERT TICKETS - 2 tix for Meat Loaf Hair of the Dog Tour 2005, Jones Beach, Th. 8/25, Orch G, TT 19 & 20. \$60/ea. 645-7707.

EXERCISE EQUIP - Universal 4-station machine, extra weights, best offer. 208-0408.

GUINEA PIGS - We have new born guinea pigs (2 weeks old), healthy, clean, adorable, very nice pets. 877-0895.

JETS TICKETS - 4 tickets for pre-season game vs. Minnesota on 8/19 at 8 p.m., \$45/ ticket. Jim, Ext. 7859 or 924-7374.

MOUNTAIN BIKE - K2-Razorback-Team, new frame, never used, new rear Fox air shock. Ask \$750. Vinny, 741-5122.

TRAILER - 2005 Prowler Lynx 31" lite - sleeps 6 (no bunks) slide out, rear picture window, used 3x. \$18,500. Ext. 2565.

WINDSURF SAIL - Neil Pryde V8 1999, 7.0 m2, 4 cambers, full monofilm, small 3" repair, \$120. Antonio, Ext. 3319 or 821-2317.

Tools, House & Garden

GENERATOR - Honda, 13-ohv 120/2440V 6500W, electric/recoil start, like brand new, best offer over \$1,650. 208-0408.

GENERATOR - Niagara 4KW, excel. cond., like new, \$200. Harvey, 588-2477.

RADIAL ARM SAW - Sears 10" -\$50. Dan, Ext. 4612 or 878-9037.

Miscellaneous

CAR SEAT - for infant, excellent condition, asking \$20/neg. Shailendra, Ext. 2443.

EXERCISE BIKE - great cond., black & green, encl. wheel w/attached upper body, monitor, \$75. 395-3484.

INFANT BASSINETS - Three: Noah's Ark theme, excel. cond., \$40; travel size b., \$15; outside b. w/mesh screen, \$15. Ext. 8594.

OLD RIFLES - assorted types, various prices. Randi, 395-3484.

TRUMPET - with case \$85. David, 395-3484.

Free

FISH TANK SETUP - 20-gall. tank, stand, light, filter, pump, plants, etc. You pick up. Call evenings. 265-3982.

Wanted

LAPTOPS WANTED - Will pay cash for used or broken laptops. laptops@myrtletek.com. Dan, 928-8389.

For Rent

BLUE POINT - 1 bdrm apt, l/r, eik, priv. ent. and yard, walk to beach, central a/c, cable, util. incl. \$950/mo. 363-2268.

E. SHIRLEY - fully furn., eik, l/r-bdrm. combo, full bath, sep. ent., no smkg./pets. one month sec., 5 min. to store & beach. 15 min. to Lab. \$750/mo. Ext. 8321 or 804-8609.

MANOR PARK - 2 bdrm. l/r, kit. on 1st. floor. 1 bath. Manorville schools, good for sharing. 10 min. to BNL & ocean, incl. all, 2 mo. sec. \$1,600/mo. Donald, Ext. 5154 or 875-0910.

MASTIC BEACH - New 1 bdrm. apt. l/r, eik, full bath. 3 blocks south of Shirley Links. No smoking/pets. Security/refs. \$900/mo. Leave msg., 395-4592.

MIDDLE ISLAND - 1-bdrm apt., l/r, eik, full bath, pvt. ent., no smkg./pets., 1 mo. sec., avail 9/1, elec. not incl. \$900/mo. 846-9051.

MILLER PLACE - 1-bdrm. attached house, spacious, resid. area, 12 mi to BNL, resp., no smkg/pets, util. incl., avail. 9/1. \$975/mo. Rakefet, Ext. 3614 or rtsabari@bnl.gov.

MILLER PLACE - share lg. Col. house, furn, cac, internet, tv, own big w/w bdrm, fenced back yard w/ deck. Prof. resid. area, 9 mi. to Lab. Resp. non-smoker. \$700/mo. 744-8386.

MILLER PLACE - 3-rm, furn apt. x-lg bdrm, full kit, ceramic tile bath, internet, tv, back yard w/ deck. Prof. resid. area, 9 mi. to BNL. Resp. non-smoker. \$900/mo. 744-8386.

MYRTLE BEACH, SC - 2 bdrm (4 beds), 2.5 BA Townhouse on golf course in Little River, SC. Comm. pool. \$491 - \$813/wk or \$700 - \$1200/mo. \$491/wk. Chris, 631-472-4994.

NESCONSET - Newly renov. 2-bdrm. bsmt apt., beautiful area. No pets/smoking. \$1,200/ mo. couple \$1000/mo. individual. Includes all. \$1,200/mo./neg. 433-1614.

NORTH SHIRLEY - 1 bdrm., l/r, kit., priv. ent., ground level, great for 1 person, no smkg/ pets, incl. all util., + basic cable, 1 mo. sec., avail. 9/1. \$900/mo. Fred, 680-6796.

RIDGE - 1-bdrm. apt., l/r, eik, full bath, cable, pvt. ent., no smkg./pets., 1 mo. sec., rent incl. all, avail. immed. \$1,000/mo. Judy, 849-3950.

RIDGE - 1 bedroom apartment, full kitchen, bath, priv. ent., all incl. \$1,000/mo. 922-2142.

ROCKY POINT - 3 bdrm. close to water, l/r, kitch. on 1st fl., bdrms on 2nd. fl. 10 mi. to BNL, 1.5 bath., parks, side yard. + util. \$1,650/mo./neg. Necati Aga, 821-3370.

SHIRLEY - lg. 1-bdrm. bsmt. apt., partially furn., pvt. ent., \$800/mo. incl. all. Ext. 3846.

SHIRLEY - 2 bdrm. basement apt., l/r, eik, private entrance and fenced yard. Utilities included. \$1,200/mo. Kerri, Ext. 3288.

SHIRLEY - new 2-bdrm. apt., lg. kit. l/r, full bath, sep. ent., util. incl. 5 min. to BNL. \$1,300/mo. Dana, 281-6701.

SHOREHAM - 2 lg. bdrms & a/c in l/r, full carpeted, kitch., full bath, cable, priv. ent. on cul-de-sac., no smkg/pets. 8 mi. to BNL. \$1,200/mo. 445-7838.

YAPHANK - 1-bdrm. bsmt apt., pvt. ent, kitch, bath, a/c, util. +cbl incl. No pets. Excel. cond. 5 mi. to Lab. \$1,100/mo. 755-0356.

YAPHANK - studio apt., fully furnished for one person, priv. ent., 4 miles to Lab, cable, high speed internet, all included. Private home. \$850/mo./neg. Irene, 924-3049.

For Sale

MASTIC BEACH - 4 bdrm. ranch, 100x100, 1/2 mi. to water, 54 Moriches Dr., Listed on MLS. \$259,000/neg. 654-5607, 495-2596.

MILLER PLACE - 2003 Victorian - 4/5 bdrms, 2.5 bths, f/lr, dr, fpl/den, hwd floors, S/S appl. CAC, 2-car gar. full bsmt. Trex deck, patio, pond, 3/4 acre l/scaped. \$809,000. 642-8043.

PORT JEFFERSON - 4-bdrm. ranch, 2 full baths, l/r, d/r, eik, den w/fireplace, c/a/c, finished bsmt., lg. deck, very private, low taxes. \$610,000. 473-5092.

SOUTHOLD - 3 bdrm, 1.5 bath, high ranch, garage, new elect, h/wood flrs, CAC, lgs, low taxes. 8X10 shed, walk to Goose Creek (w/ boat ramp). \$410,000/neg. 631-786-4318.

ARUBA - ocean view, Marriott, can exchange, strong home base. \$16,000 Rob-ert, Ext. 7238.

Community Involvement

SCHOOL SUPPLIES - collecting for donation to the LI Council of Churches for local children. Thank you. Beth, Ext. 6033.

In Appreciation

Thank you, friends and colleagues, for a wonderful 37 years at BNL. I will treasure my memories of you. — Joseph Curtiss

On-Site Service Station

Need your vehicle inspected, or your tires, brakes or battery checked and/or replaced? This and much more can be done at the on-site service station while you are at work. Call Ext. 4034.