

## News Flash

See late-breaking news received from BNLER of Guanyuan, China, on prevailing conditions following the earthquake in that area (p. 4)



Roger Stouvenburgh 01810308

### Senior Physicist Emeritus Trueman

After a 46-year career at BNL, the Physics Department's T. Laurence Trueman retired as of April 1, and, as a scientist who has made significant contributions to the Laboratory, he has been named Senior Physicist Emeritus. With this new title, Trueman retains the rights and privileges of employees, and he will continue to pursue his research at the Lab.

"I was one of the original proponents of the Emeritus title," Trueman said. "It's an easier choice to retire if you're given the title, since you're not abruptly cutting your association with a place and a career that you've had for perhaps 40 or 45 years. You can continue your career and your life at BNL."

"As a theoretical physicist, Trueman has made seminal contributions to many of the important developments that have defined BNL's leadership in elementary particle physics from the 1960s to the present," said Thomas Ludlam, Physics Chair. "These include discoveries in particle spectroscopy and rare kaon decay processes at the Alternating Gradient Synchrotron (AGS), exploration of new phenomena at the energy frontier with high energy colliders, and the physics of spin-polarized particle collisions, both at the AGS and the Relativistic Heavy Ion Collider (RHIC)."

Looking back at his distinguished career at BNL, a thread that goes through much of Trueman's research starts with the discovery of a general relation between scattering amplitudes of spinning particles with his BNL mentor Gian Carlo Wick and goes all the way to his most recent published work on polarized protons at RHIC. He spent much of his career in developing and applying the Regge Theory — a theory in strong interaction physics initiated by Tullio Regge in 1957 — to particles with spin.

During the last decade, Trueman has worked on descriptions of polarized proton interactions at RHIC, and he developed a method for predicting the absolute polarization of proton beams in RHIC (see **Trueman** on page 2)



Roger Stouvenburgh 00720508

(From left): President of Korea University (KU) Ki-Su Lee and KU Vice President Dong Joo Oh learn about the PHENIX detector from Byungil Kim and Kwangbok Lee, Ph.D. students from KU working at PHENIX.

## Korea University President Visits BNL

### Korea University will produce new components for PHENIX

Ki-Su Lee, President of Korea University, visited BNL on May 13 to get a first-hand look at PHENIX, a massive detector used for physics experiments on the early universe. The visit highlighted the important contribution that the Korea Detector Laboratory (KODEL) of Korea University (KU) is making to enhance the performance of PHENIX, an experiment at the Lab's Relativistic Heavy Ion Collider (RHIC). With special expertise in detector technology, KODEL is producing new components that will be installed in PHENIX over the next several years.

Under Lee's leadership, KU actively promotes innovative research and international relationships. A major proponent for global collaboration in research, Lee stated in his February 2008 inaugural address, "We have to embrace globalization. Armed with practicality and renovation, we will reach out to set the global standards. To achieve that goal, we have to learn from the past and create new things."

PHENIX is operated by an international collaboration with over 500 scientists and engineers from 68 institutions in 14 countries. KODEL will manufacture 200 state-of-the-art resistive plate chambers (RPCs) for PHENIX. The PHENIX RPC project is funded by a grant from the National Science Foundation and managed by the University of Illinois at Urbana-Champaign (UIUC) under the guidance of UIUC's Matthias Grosse Perdekamp.

RHIC operations at BNL are funded by DOE's Office of Science, Office of Nuclear Physics.

The RPCs, the result of an ongoing collaboration of scientists from several labs and universities worldwide since 1997, will enhance PHENIX's ability to probe the internal structure of protons. Protons have a substructure of quarks, anti-quarks, and gluons. The gluons carry the nuclear force binding the quarks and anti-quarks together to make protons and neutrons. The RPCs facilitate the selection of the rarest proton-proton interactions so that scientists can study the quark-anti-quark structure of the proton. These phenomena are essential ingredients in the processes that give protons their mass and their spin.

Under the direction of KU Professor Sung Keun Park, KODEL will use the same technologies to produce the RPC detectors for PHENIX as were developed to produce the forward RPC detectors in the Compact Muon Solenoid experimental apparatus at the Large Hadron Collider at CERN, Switzerland. The new, PHENIX RPC detectors are expected to be installed and fully operational by 2011.

KU has participated in the PHENIX experiment for many years. The PHENIX research group at KU includes four faculty as well as their students and staff. Two KU Ph.D. students, Byungil Kim and Kwangbok Lee, and KU alumnus Young Jin Kim, a researcher at UIUC, currently work on the PHENIX RPC project at BNL. — Joe Gettler



### Robert Palmer Elected NAS Member

Robert Palmer, a senior physicist and head of the Advanced Accelerator Group, has been elected a member of the National Academy of Sciences (NAS). He is among 72 new members elected this year "in recognition of their distinguished and continuing achievements in original research." Election to the Academy is considered one of the highest honors that can be accorded a U.S. scientist.

The NAS is a private organization of scientists and engineers dedicated to the furtherance of science and its use for the general welfare. The Academy is, upon request, an official advisor to the federal government in any matter of science or technology.

"This is certainly not something I expected," Palmer said. "It was quite a shock when the phone brought a flood of congratulations — the official notification came long afterward. We do our science in groups and collaborations, so the honors go to more than the one elected. I offer (see **Palmer** on page 2)

## Basic RHIC Physics Feeds Future Workforce Pipeline

In addition to helping scientists peer into the very heart of matter, large-scale physics facilities like the Relativistic Heavy Ion Collider (RHIC) at BNL and the Large Hadron Collider at CERN, Switzerland, play a significant role in training the next generation of world-class physicists. These scientists often make important contributions that fuel the economy, provide for security, and pave the way to a healthier, brighter future.

Indeed, more than half the students who earn doctoral degrees in nuclear physics in the U.S. go on to work in fields as diverse as national security, medicine, energy generation, space exploration, finance, and more. Among them are M. Munir Muniruzzaman, Andrew

Hoover, Jane M. Burward-Hoy, Felix Matathias, and Robert Welsh: examples from the more than 30 students who earn Ph.D.s each year based in part on their work at RHIC.

M. Munir Muniruzzaman transferred his skill at analyzing RHIC's particle collisions to developing algorithms for a small company using fast neutrons to detect explosives and illicit materials such as drugs. He has worked on detectors for the Departments of Homeland Security and Defense, U.S. Customs, and a number of commercial companies.

"Then, after three years helping save lives from terrorists, I learned that a physicist can also save lives in danger of being cut short by cancer," said Muniruzza-

man. Joining a company working on a robotic radiosurgery system that directs x-rays with pinpoint precision, Muniruzzaman is now in charge of using physics-based computer simulations to calculate doses for this innovative cancer radiation treatment.

Computer simulations and an understanding of radiation also play a role in the work of RHIC alumnus Andrew Hoover at Los Alamos National Laboratory, where he's helped design arrays of sensors for analyzing the composition of nuclear materials as part of an effort to track their origins and keep them out of terrorists' hands. "My skills here are applied across several projects involving radiation detection — even a space-based gamma-ray burst experiment on a NASA mission."

The space environment, filled with cosmic rays and energetic particle bursts, seems particularly well suited to the application of skills learned at RHIC. Jane M. Burward-Hoy, who now also works at Los Alamos, measures particle distributions in the outer edge of Earth's radiation belts to more accurately predict the space "weather" environment. The ultimate goal: Help protect Earth-orbiting satellites, which help protect us on Earth, from damage to their electronic monitoring systems.

Burward-Hoy attributes her career path to the terrorist events of September 11, 2001 — the day she was scheduled to defend her Ph.D. thesis. "I decided I really wanted to contribute (see **RHIC** on page 2)

**2008 RHIC & AGS Annual Users' Meeting**

May 27-30, 2008 | [www.bnl.gov/rhic\\_ags/users\\_meeting](http://www.bnl.gov/rhic_ags/users_meeting)

## Give Life — Give Blood Blood Drive, 6/17 & 18

BNL will hold a Blood Drive on Tuesday and Wednesday, June 17 and 18, 9:30 a.m. – 3 p.m. in the Brookhaven Center. Donors must be 16 to 75 years of age, in good health and weighing over 110 lbs. Restrictions may apply to individuals from the United Kingdom and Europe. Donors should have photo identification and know their social security number. To make an appointment, log on to the Human Resources webpage, click on “Blood Drive” and select “Schedule an Appointment.” For more information, call Liz Gilbert, Ext. 2315.

## Arrivals & Departures

— Arrivals —

Matthew Ahrenstein ..... Physics  
James Puleo ..... Plant Eng.  
Guobao Shen ..... NLSLS-II

— Departures —

None

## Commute Alternatives Survey Needs Input

The Commute Alternatives Survey is available online at [www.custominsight.com/start/?bnl08](http://www.custominsight.com/start/?bnl08). Even if you are not interested in commuting alternatives, your participation will help, because 1,300 BNL staff members must complete the survey in order for BNL to be eligible for commuting grants to explore new or enhance existing commute options. Employees who do not have access to a computer may ask a co-worker or their supervisor for a downloadable .pdf version of the survey available at <http://intranet.bnl.gov/esd/docs/BNLCommuterSurvey.pdf>. Return completed paper surveys to Jeff Williams, Bldg. 120.

*Note: Employees completing the survey will be eligible to receive several prizes, including a mountain bike, a \$75 gasoline gift card, and a \$25 AID Auto Store gift certificate in a random drawing on June 3. Winners will be announced in the Bulletin on June 6.*

## Vending Services Survey: Participation Requested

A survey of the Vending Machine Services at the Lab is being held for two weeks, from Monday, May 26 until Friday, June 6, inclusive. The survey will be available on the homepage. The Lab community is encouraged to respond to this survey in order that services may be improved. If you do not have easy access to the web, contact Ruth Comas, Berkner Hall, Bldg. 488, for a printed version.

## BREA Luncheon, 6/4

The Brookhaven Retired Employees Association (BREA) will hold the fifth Annual BREA Luncheon on Wednesday, June 4, at the Three Village Inn in Stony Brook. All are invited. The cost of \$35 per person includes a half-hour of hors d'oeuvres and wine, noon-12:30 p.m., a three-course meal, with cash bar, soft background music played by Roger Colleo. By May 28, send your reservation with name, address, and telephone number, and a check made out to BREA to cover \$35 for each person in your party, to BREA, BNL, P.O. Box 5000, Bldg. 475, Upton, NY 11973-5000.



Roger Stoutenburg 05050808

## Colleagues Gather to Celebrate Larry Trueman's Contributions in 'TruemanFest'

On Monday, May 12, colleagues, friends and family gathered at a “TruemanFest” to celebrate the career and accomplishments of T. Laurence Trueman, who had retired after 46 years of service to BNL and the scientific community. Trueman will continue his research, however, and was named Senior Scientist Emeritus in April 2008 (see story, page 1).

Chaired by Bill Marciano

and Sally Dawson, both of the Physics Department, the TruemanFest morning session talks included: Sam Aronson, BNL, “Opening Remarks;” Alfred Mueller, Columbia University, “Theoretical Physics at Brookhaven in the Late 1960s;” Elliot Leader, Imperial College, “Spinning With Larry Trueman;” Doug Bryman, TRIUMF, “Searching for New Physics With Rare Decays; The

BNL Legacy;” and Frank Paige, BNL, “SUSY Searches With ATLAS.” The afternoon session, chaired by Rob Pisarski and Mike Creutz, both of Physics, included talks by Leo Stodolsky, Max Planck Institute, on “Beyond the Horizon;” Gerry Bunce, BNL, “Pomerons, W's and RHIC Spin;” Boris Kopelovich, Federico Santa María Technical University, “Single-Spin Assymetry of Forward

Neutrons at RHIC;” Lee Roberts, Boston University, “Muon (g-2): Renormalization at Work All the Way Down to the Weak Scale;” and Nick Samios, BNL, who gave the closing remarks. A reception followed, and the festivities concluded with dinner in Berkner Hall. A description of the event is available in the May 20, 2008 Edition of RHIC News, at [www.bnl.gov/rhic/news/archive.asp](http://www.bnl.gov/rhic/news/archive.asp).

## Trueman: Senior Scientist Emeritus ..... (cont'd)

of better than ten percent, a calculation that is important for designing and implementing polarized proton experiments at the collider. In his new Emeritus role, Trueman plans to continue to study proton spin — a basic property of elementary particles — relating theory to experiments done by international collaborations at RHIC.

Trueman earned a B.A. in physics from Dartmouth College in 1957 and a Ph.D. in physics from the University of Chicago in 1962. He joined BNL in the same year as a research associate in the Physics Department, moving through the ranks to become a senior physicist in 1974. From 1972-1973, Trueman was a Guggenheim Fellow at Oxford University.

After returning to BNL, he became leader of the High Energy Theory Group, a position he held from 1974 to 1981. “One of my proudest achievements was building the BNL High Energy Theory Group into one of the finest in the land,” Trueman said.

He then became Deputy Chair of the Physics Department for a five-year term,

returning to research in 1986. During this period he twice became a visiting professor/scientist at the Université d'Aix-Marseille in the south of France.

Trueman was appointed the first Associate Laboratory Director for the combined fields of High Energy & Nuclear Physics, 1988-1991. In this position he continued to push the rare K-decay program that began when he was Deputy Chair and the newly begun g-2 experiment and the exotic hadron experiment at the AGS. In addition, he made the first call for proposals for experiments at RHIC to prepare for its imminent completion. He then returned to research as a senior physicist working in both heavy ion physics and spin physics.

A Fellow of the American Physical Society, Trueman has been active in mentoring and guiding the careers of young scientists in the Physics Department. He served on the Brookhaven Council from 1993 to 1996, and was Chair of the council from 1995 to 1996. He was also a member of the initial RIKEN BNL Research Center Advisory Committee from 1996 to 2000. — Diane Greenberg

## RHIC Physics Feeds Future Workforce... (cont'd)

to national security and make a difference,” she said.

RHIC alum Felix Matathias hopes to have his impact in the world of finance — using data-analysis and computing skills to pin down pricing information for rarely traded bonds in a less-than-transparent market. “Because of my work analyzing very limited early RHIC data, I was no stranger to working with sparse and rare data trying to extract a statistically significant signal. My physics training also provided me with invaluable technical skills in computer programming, which I now apply every day.”

Being an outsider in a new field can be a real asset, says Robert Welsh, who transferred skills gained through 10 years of experimental particle and nuclear physics to the field of neuroscience. “My training in physics has greatly contributed to my ability to think outside the box and to learn new experimental and theoretical concepts.”

Welsh is involved in a number of studies using functional magnetic resonance imaging and other brain-scanning techniques. He specializes in tweaking experimental designs to maximize the detector's sensitivity to the “signal” he wants to measure — for example a change in brain activity in response to different facial expressions or cognitive tasks — for studies of psychiatric diseases such as schizophrenia and obsessive compulsive disorder, as well as amyotrophic lateral sclerosis (“Lou Gehrig's disease”) and cancer.

By offering students the opportunity to develop such wide-ranging skills and showcasing ways to apply them, the RHIC program constitutes a technical, scientific wellspring that feeds many fields. Maintaining such facilities keeps an ever-more-sophisticated, highly specialized workforce growing.

— Karen McNulty Walsh

## Palmer ..... (cont'd)

my thanks both to those who elected me, and also to all those I have worked with and have contributed to ‘our’ achievements. We have had a lot of fun.”

After earning a Ph.D. in physics at Imperial College, London, in 1960, Palmer joined BNL as a research associate. He rose through the ranks to become a senior physicist in 1974, and Associate Director for High Energy Physics Research in 1983.

From 1987 to 1990, and from 1991 to 1996, Palmer held joint appointments at BNL and the Stanford Linear Accelerator Center. In 1990, he started work on magnet development at the Superconducting Super Collider. After returning to Brookhaven in 1991, Palmer was named head of the Lab's Center for Accelerator Physics (CAP). Currently, he is in charge of the Advanced Accelerator Group at CAP.

Palmer has made several notable discoveries in particle physics. In 1993, he shared the American Physical Society's W.K.H. Panofsky Prize with BNL's Nicholas Samios and Ralph Shutt for the 1962 discovery of the Omega-minus particle. Palmer was also involved in the discovery of neutral currents in the early 1970s at the European particle-physics laboratory CERN, the charmed baryon at BNL in 1975, and direct single photons at CERN in 1978.

Palmer's focus turned to accelerator physics with his invention of the inverse free electron laser in 1972. In 1973, Palmer proposed a method, called longitudinal stochastic cooling, also known as the Palmer method, of correcting the momentum spread of parti-



cles as they circulate around an accelerator. The method is now used at CERN.

From 1980 to 1983, Palmer and his associates developed magnets for BNL's Colliding Beam Accelerator Project, also known as ISABELLE. The success of many of today's superconducting accelerator magnets can be traced back to Palmer's ideas.

In the 1990s, Palmer became interested in muon colliders, and, since 1997, he has been a member of the executive board and spokesperson for the Muon Collider Collaboration, which has over 100 members from 27 institutions. The hope is that a muon collider could reach higher energies at lower cost than the conventional technologies of the soon-to-start Large Hadron Collider in Switzerland, or the proposed International Linear Collider.

In 1997, Palmer received BNL's Research & Development Award for his contributions to accelerator and detector concepts and technology. He also was honored with the American Physical Society's Robert R. Wilson Prize in 1999 for his outstanding achievements in the physics of particle accelerators. — Diane Greenberg

## NYC Bus Trip, 6/1

The Hospitality Committee offers a “do-as-you-like” trip to Manhattan, Sunday, June 1. The coach will leave from the Recreation Bldg. in the apartment area at 9 a.m., and drop attendees in the Bryant Park

area. The coach will leave Bryant Park at 6 p.m. The cost is \$10 for adults, \$5 for children up to 12. You must reserve in advance with Joanne Rula, [jrula@bnl.gov](mailto:jrula@bnl.gov) or stop at Staff Services in Bldg. 400.



Roger Stoulenburgh 03440704

## Register Your Child for Summer Science At BNL's Science Learning Center

BNL employees are invited to register their children for the 2007 Summer Science Explorations Program, a free offering from the Lab's Science Learning Center (SLC). The three-day summer camp will be held Tuesday through Thursday, 8:30-11:30 a.m., for students entering 4th – 6th grades. The weeks of July 22 and August 5 have been reserved for the children of the BNL community.

The focus of the camp is energy. Through activities, students will experiment with different forms of energy: chemical, mechanical, and electrical. The importance of alternative energy will also be included. The environmental day will focus on radio telemetry and how BNL scientists

use this technology to locate and track different animal species on site. Students will use this technology to track an "animal." Students will also use GPS units and learn how this scientific tool is beneficial to scientists.

These programs center on research done at the Lab. In addition to our Science Educators, teaching participants include research staff and pre-service teacher interns in this Office of Educational Programs offering.

Space is limited, so register your child or grandchild early by contacting the SLC office, Ext. 4495, Bldg. 400. Students must attend all three days and the parents of participating children are welcome to attend.

## Gardening Note: Plant Swap, 6/6

The annual plant swap will be held at noon outside Berkner Hall on Friday, June 6. Bring your spare plants, swap for others.

## Lose It!

### BNL Offers Weight Management Programs

To help anyone who wants to lose weight, BNL is offering two programs, WeightWatchers and the LEARN Program. Each has a fee, but each has proven successful.

**WeightWatchers:** The next WeightWatchers registration is on two Wednesdays, June 4 and 11, noon-1 p.m. in the Seminar Room of Bldg 515 (the Information Technology Division building).

**LEARN Program for Weight Management:** An information meeting will be held on July 24. A successful pilot series of this intensive 12-week program was recently completed, and the program will be offered again in the fall. Space is limited to 40 people, who must be at least 20 lbs overweight to be considered for participation. WeightWatchers members are eligible to be considered for LEARN. Attendance at the 12 weekly sessions is mandatory. See also [www.thelifestylecompany.com](http://www.thelifestylecompany.com).

For more information, contact Michael Thorn, Health Promotion Program, Ext. 8612 or [mthorn@bnl.gov](mailto:mthorn@bnl.gov).

## Project Floyd Performs Pink Floyd, 5/31

Project Floyd, a New York-based Pink Floyd tribute band, will perform in concert on Saturday, May 31, at 8 p.m. in Berkner Hall. Sponsored by the BNL Music Club, the concert is open to the public. Visitors to the Lab age 16 and over must bring a photo ID.

Project Floyd will perform one of Pink Floyd's most famous albums, "Dark Side of the Moon," in its entirety, as well as other classic "Floyd" songs. The band incorporates the sounds, sights, and character of the original group into a show that should satisfy the palate of even the most discriminating Pink Floyd fan.

The six musicians making up Project Floyd are Joe Mayer, lead vocals and rhythm guitar; Charlie Koci, lead vocals, bass; Dave Ventura, lead guitar, vocals; Andy Fox, keyboard, vocals; Paul Drollinger, keyboard, sound effects; and Mike Straus, drums. The touring and recording group performs an extensive set list from the most popular to the most obscure Pink Floyd songs representing every album.

Tickets for the show are \$15 in advance and \$17 the day of the show. Buy tickets at the BERA Store or at [www.ticketweb.com](http://www.ticketweb.com) or at the door.

**Note: To show their deep sympathy for the earthquake and cyclone victims in China and Myanmar, the BNL Music Club will give all net proceeds for this show to the BNL fund designated to relief-effort charities (see p. 4).**

## Support Poppy Day to Benefit Vets, 5/30

On Friday, May 30, 11:45 a.m.-1 p.m., in Berkner Hall lobby, BNL retiree Flo O'Brien and other Leisure Knoll residents representing the American Legion will give out poppies, made by veterans, and collect donations to be used to benefit Veterans. The poppies on the Flanders battlefields in World War I have become a Memorial Day symbol of all veterans' dedication.

## Gym and Pool Closed Saturdays for Summer

The Gym and Pool will be closed on Saturdays beginning tomorrow, May 24, through Labor Day. Saturday hours will re-start after on Saturday, September 6.

## Borrow-A-Bike Program Starts, 6/2

Beginning June 2, the Quality of Life/BERA/Recreation Office will once again have a limited number of bicycles to lend students and guests. There will be safety requirements to communicate, and a BSA account number with supervisor's signature required, should any damages be incurred. Note that each department may purchase their own bicycles to keep on hand if they consistently have a need. It is an allowable expense. Contact the Recreation Office, Ext. 8481 to check for availability.

## Honoring Flag Day, 6/13

Flag Day, a date set aside by act of Congress to honor the birth of one of the most precious national symbols of the U.S., falls annually on June 14. The flag may be flown daily or on holidays, and this entails knowing flag etiquette. One portion of flag etiquette states: "When a flag is so worn that it is no longer fit to serve as a symbol of our country, it should be destroyed in a dignified manner."

In honor of Flag Day, the Brookhaven Veterans Association will be collecting American Flags that are no longer fit to serve as a symbol of the U.S. If you have a flag that falls into this category, bring it to Berkner Hall on Friday, June 13 between 11 a.m. and 1 p.m. It will be collected for proper disposal.

The Brookhaven Veterans Association, a BERA organization, is dedicated to serving the interests of BNL Veterans and employees who are faced with the challenges of their loved ones currently serving in the military, and to their communities. For more information, go to: [www.bnl.gov/bera/activities/va/](http://www.bnl.gov/bera/activities/va/).

## Join a BERA Trip! These Trip Tickets Start Being Sold Today, 5/23

All event and trip tickets are available at the BERA Store in Berkner Hall, Bldg. 488, Ext. 3347, Monday to Friday, 9 a.m.-3 p.m. Trips will be sold beginning today, Friday, May 23, at 9 a.m., and there is a four-ticket maximum per person for the first week of sales. No reservations can be made without payment, and all tickets are non-refundable. All these trips leave from the Brookhaven Center.

- **Young Frankenstein** on Broadway, Hilton Theatre at 213 West 42nd St. Mel Brooks' famous show, 3 p.m. on Sunday, June 29. \$145/person. 40 Orchestra seats are available. Bus leaves BNL at 10 a.m., will leave at the end of the show, about 5:30 p.m. Show recommended for audiences 10 years & older
- **Circle Line Cruise** of New York City, plus "Do-As-You-Please" time in NYC, Sunday, July 13. Bus leaves BNL at 9 a.m., leaves NYC at 5:30 p.m.

Cruise begins 11:30 a.m. from Pier 83 at 42nd St. and 12th on the Hudson River. Tickets are \$28/person, 55 tickets available, for the two-hour city highlights tour with a close-up view of Lady Liberty. Sail down the Hudson, around the Battery, up the East River, and under the Brooklyn, Manhattan and Williamsburg Bridges to the United Nations and back. After the cruise, do as you please, such as: see Hell's Kitchen Flea Market, <http://www.hellskitchenfleamarket.com/> or Restaurant Alley, <http://restaurantrow.name/media/restaurantrow.html>

- **Atlantic City**, Saturday, July 26. Casino on the Boardwalk to be determined. Leave BNL at 9 a.m., leave City at 8 p.m. Adults only, 18 and over. \$25/person. 53 Seats.
- **Wildwater Kingdom, Dorney Park, PA.** Friday, August 1. \$35/adult or child. Leave BNL at 7 a.m., leave

PA at 6 p.m. 55 seats. <http://www.dorneypark.com/>

- **Boston — overnight trip.** Sightseeing tour of Boston,, Saturday & Sunday, August 9 & 10. \$280/person based on double, \$255/person triple, \$230/person quadruple. Includes Port Jefferson ferry, motor coach transportation, Duck Boat tour, lodging at the 1927 Boston Park Plaza Hotel, lunch at Vinnie T's, full breakfast at the hotel's Swan Café, and an all-day City View Trolley ticket. A non-refundable \$50/person deposit is due immediately, and payment in full is due by July 11
- **JERSEY BOYS!** August Wilton Theatre 245 W. 52nd St., Sunday August 17, 3 p.m. show. 40 tickets only, mezzanine seats. \$120/person, age 10 and over only. Leave BNL at 10 a.m., leave after show about 5 p.m. <http://www.jerseyboysinfo.com/broadway/>.

- **Renaissance Faire**, Sterling Forrest, Tuxedo, NY. Saturday, August 23. \$20/person for luxury coach & entrance. Leave BNL at 9 a.m., leave Faire at 5 p.m.
- **US Open**, Tuesday, September 2 (not a Lab Holiday). \$58/person includes ticket & luxury coach bus. Leave BNL at 8:30 a.m., leave stadium 7:30 p.m. Section 311 & 312 in the Upper Promenade level. <http://www.usopen.org/home/default.sps>
- **New York City Dinner Cruise** on the Skyline Princess, Friday, September 19. Cruise NYC from the World's Fair Marina, 8 p.m.-midnight, enjoying a dinner buffet, dessert, coffee, cash bar, DJ dancing, coach transportation. Ages 21 and over only. The bus will leave BNL at 6 p.m. and leave Flushing at 12:15 a.m. (Tentative price \$90/person includes taxes). <http://www.skylinecruises.com>

## CALENDAR

— TODAY —

Friday, 5/23

**Gertrude Scharff-Goldhaber Prize**  
3 p.m. Physics Department, Bldg. 510, Large Seminar Room. Scharff-Goldhaber Prize to be awarded to Christine Natrass, Yale University. All are welcome. Refreshments follow a short presentation by the winner.

— WEEK OF 5/26 —

Monday, 5/26

**Memorial Day Holiday, Lab Closed**  
No Bulletin on Friday, 5/30

Tue.-Fri., 5/27-30

**2008 RHIC & AGS Users' Meeting**  
[www.bnl.gov/rhic\\_ag/users\\_meeting/](http://www.bnl.gov/rhic_ag/users_meeting/) for agenda.

Tuesday, 5/27

**RHIC/AGS Mtg. Workshops**  
See website above.

Wednesday, 5/28

**RHIC Symposium**  
8:55 a.m.-6 p.m. Berkner Hall. "RHIC & Its Impact on Nuclear Science." [www.bnl.gov/rhic\\_ag/users\\_meeting/](http://www.bnl.gov/rhic_ag/users_meeting/) for agenda. All welcome.

**Brookhaven Lecture Postponed**

The Brookhaven Lecture announced for this day has been postponed, to be rescheduled in the fall. The next Brookhaven Lecture will be given on June 25.

Thursday, 5/29

**RHIC/AGS Users Plenary Program**  
Berkner Hall. [www.bnl.gov/rhic\\_ag/users\\_meeting/](http://www.bnl.gov/rhic_ag/users_meeting/) for agenda. At 6 p.m., panel discussion on "Diversity in Physics." All welcome.

\*Benefit Car Wash

11 a.m.-1 p.m. BNL Fire House. BNL Vets Assoc. and BERA Cyclotrons will wash cars to benefit victims of Myanmar and China disasters. See p. 4.

\*Support Vets on Poppy Day

11:45 a.m.-1 p.m. Berkner Hall lobby. Donations collected to benefit Vets. See notice, left.

Friday, 5/30

**RHIC/AGS Users Plenary Program**  
[www.bnl.gov/rhic\\_ag/users\\_meeting/](http://www.bnl.gov/rhic_ag/users_meeting/) for agenda.

Saturday, 5/31

\*Project Floyd Concert

8 p.m. Berkner Hall. Project Floyd, a Pink Floyd tribute band, will perform, sponsored by the BNL Music Club. The concert is open to the public. Tickets are \$15 in advance, \$17 the day of the show, profits to Myanmar and China disaster aid. Visitors to the Lab of 16 and older must carry a photo ID. See notice above, left.

— WEEK OF 6/2 —

Wednesday, 6/4

\*BNL Retirees Annual Luncheon  
See notice, p. 2.

Friday, 6/6

\*Plant Swap

Noon. Berkner Hall parking lot. See notice, above, left.

— WEEK OF 6/9 —

Monday, 6/9

**BSA Distinguished Lecture**  
4 p.m. Berkner Hall. Albert-Laszlo Barabasi, Northeastern University will talk on "Network Science: From the Web to human diseases." All are welcome to this free lecture, open to the public. Visitors to the Lab of 16 and older must carry a photo ID.

— WEEK OF 6/16 —

Tues. & Wed., 6/17 & 18

\*Blood Drive

9:30 a.m. -3 p.m. Brookhaven Center. See notice, p. 2.

