

NSLS Researchers Reach for the Star (Dust)

A research project at the National Synchrotron Light Source (NSLS) has turned to dust — star dust, that is. After months of studying particles collected from a comet passing inside Jupiter's orbit, a group of NSLS users and scientists finished a preliminary examination of the dust, revealing details that might help explain the beginning of the solar system.

As part of an international team of more than 175 members, NSLS users and scientists used x-ray, infrared, and ultraviolet light to study the chemical composition and properties of the extremely small dust particles, most less than 15 micrometers in diameter. The diameter of a human hair, in comparison, is about 50 micrometers. Locked within the particles, which were collected from the comet Wild 2 by the NASA Stardust spacecraft, is unique chemical and physical information that provides a record of the formation of the planets and the materials from which they were made.

"Comets represent what's left over from the primitive solar nebula," said University of Chicago geochemist Tony Lanzirotti, who worked on multiple aspects of the analysis. "If you want to figure out what the

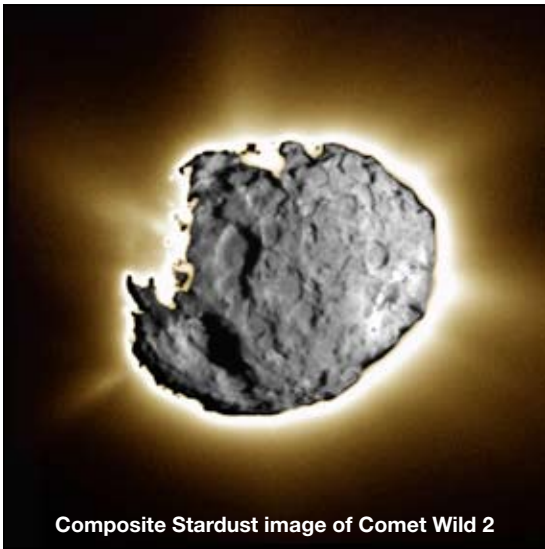


Image courtesy of NASA

Composite Stardust image of Comet Wild 2

solar system is made of, that's where you want to go."

Working with about a picogram, one trillionth of a gram, of dust, the scientists studied the elemental composition, organic materials, and mineralogy and petrology of the particles at four NSLS beamlines — X26A, X1A1, U10A, and U10B. Their findings, combined with those from other synchrotrons and institutions, were included in three of the seven Stardust papers published in the December 15, 2006, issue of *Science Express*, the online edition of the journal *Science*.

The first samples from Stardust arrived at the NSLS in February 2006, suspended within "aerogel," a silicon-based substance used to capture the particles in space. This sponge-like material is 99.8 percent air

and was fit to a tennis racket-shaped collector on the spacecraft. To study the aerogel-encased particles, scientists used extremely tiny and bright infrared and x-ray beams to extract chemical and mineralogical information. Once the particles were extracted from the gel, a powerful x-ray imaging device was used to collect detailed images of some of the smallest particles as well as to determine their elemental makeup. In particular, the

scientists looked for the element carbon, which can indicate that the particles contain organic compounds — compounds that may have formed at the birth of our solar system.

Infrared light was used to identify specific minerals within the particles, as well as identify any organic compounds that were detected. Unlike x-ray methods, the information collected using these infrared techniques can be compared with the astronomical observations of distant interstellar dust clouds, including those involved with the formation of planetary systems like ours, said Stony Brook University physicist Sue Wirick, who has worked extensively on the composition of meteorites and interplanetary dust particles.

(continued on page 2)

IEEE Honors Eric Forsyth

The Institute of Electrical and Electronics Engineers, Inc., (IEEE) has chosen Eric Forsyth, a retired electrical engineer and former chair of the Accelerator Development Department at BNL, to receive the 2007 Herman Halperin Electric Transmission and Distribution Award.

The \$5,000 award is funded by Herman and Edna Halperin and administered by the IEEE Foundation, Inc. Herman Halperin, an award-winning IEEE member who had a 40-year career with Commonwealth Edison Company, was noted for his pioneering contributions to the design and operation of electric plant facilities and power cable systems.

"I am pleased to be recognized for this award," Forsyth said. "More than 20 years ago, my team and I at Brookhaven designed and built the most advanced, high-powered superconducting power transmission cables that have ever been developed to this day. I am glad to see the technology developed at BNL has found commercial application."

Said Andrew McNerney, Assistant Laboratory Director for Facilities & Operations, "I consider myself fortunate to have worked for Eric during my career at BNL. He is not only an exceptionally talented engineer, but also a natural leader and skilled manager."

Forsyth joined the Lab in 1960 and later became Chief Electrical Engineer of the Alternating Gradient Synchrotron Department. In 1972 he was named manager of BNL's Power Transmission Project to develop a viable and cost-effective means of transmitting large amounts of electrical power underground. Lab researchers fabricated a thousand feet of underground superconducting power transmission cable, which proved to be extremely rugged and durable. Each 100-meter-long cable was capable of carrying over 600 megavolt amperes: the power output of a medium-sized nuclear reactor. No other project employing superconductors for power

(continued on page 3)



Mort Rosen 5-26-06

Goldhaber Fellows Present Mini Symposium Nine BNL Goldhaber Fellows Talk on Work, Future Plans, 1/25

To learn about the research of some of BNL's younger scientists, all are invited to a Mini Symposium on Thursday, January 25, 1:30-5 p.m., in the Hamilton Seminar Room, Bldg. 555, where the current nine BNL Goldhaber Fellows will talk about their work and future plans. Awarded to candidates with exceptional talent and credentials who have a strong desire for independent research at the frontiers of their fields, the Gertrude and Maurice Goldhaber Distinguished Fellowships were created four years ago with funding from Brookhaven Science Associates. Candidates may be no more than three years past receipt of their Ph.D. at the time of their application. The intention of the program is to select individuals who will qualify for scientific staff positions at BNL upon completion of their appointment. Goldhaber appointees work in close collaboration with a member of the BNL scientific staff who serves as their mentor.

The nine Goldhaber Fellows who will speak are:

- **Devicharan Chidambaram**, materials scientist, joined BNL 10/04, Mentor: A.J. Francis
- **Kuo-Wei Huang**, chemist, joined BNL 10/04, Mentor: Etsuko Fujita
- **Adrian M. Gozar**, physicist, joined BNL 10/04, Mentor: Ivan Bosovic
- **Alexander M. Milov**, physicist, joined BNL 5/07, Mentors: Michael Tannenbaum and Craig Woody
- **Kyle Cranmer**, physicist, joined BNL 9/05, Mentor: Howard Gordon
- **Mathew M. Maye**, materials scientist, joined BNL 9/05, Mentor: Oleg Gang
- **Paul Sorensen**, physicist, joined BNL 10/05, Mentor: Tim Hallman
- **Jason Olfert**, mechanical engineer, joined BNL 9/06, Mentor: Jian Wang
- **Ioana Raluca Gearba**, physicist (materials scientist), joined BNL 12/06, Mentor: Ronald Pindak.

More information on the specialties and achievements of the speakers is available at www.bnl.gov/bnlweb/pubaf/goldhaber_symposium.asp

421st Brookhaven Lecture, 1/17

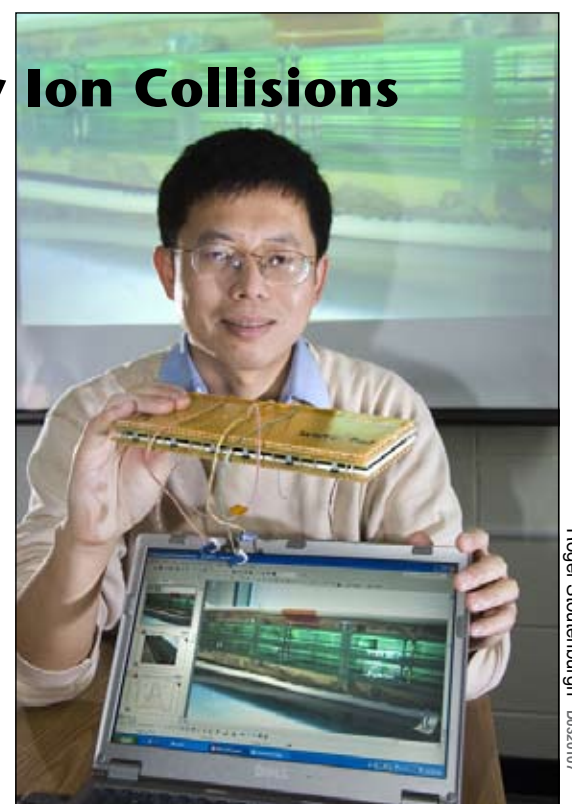
Xu Discusses Color In Relativistic Heavy Ion Collisions

As the world's newest and largest operating accelerator for nuclear physics research, BNL's Relativistic Heavy Ion Collider (RHIC) has been smashing beams of gold ions — the nuclei of gold atoms stripped of their electrons — together since 2000, to duplicate on the atomic level the conditions that last existed after the Big Bang. Around the collider ring, four teams of physicists had built four specialized detectors to gather information about the behavior of the quarks and gluons, the smallest known building blocks of matter, that are contained in each ion and released as the ions collide and smash.

In 2005, the RHIC physicists announced that, contrary to expectation, what existed a few microseconds after the Big Bang is not a plasma of weakly interacting quarks and gluons — it is a liquid of strongly interacting quarks and gluons.

To learn more about the extraordinary properties of this liquid, join Zhangbu Xu, Physics Department, in the 421st Brookhaven Lecture, "Practice of Color in Relativistic Heavy Ion Collisions," which he will give on Wednesday, January 17, at 4 p.m. in Berkner Hall. Xu will be introduced by Tom Ludlam, Associate Chair of Physics. Refreshments will be served before and after the lecture, which is free and open to the public. Visitors to the Lab age 16 and older must bring photo ID.

In his talk, Xu will explain how particle abundance, temperature and flow are measured, and he will clarify such terms as "color," "flavor," and "jet



Roger Stoulenburgh 04/28/07

Zhangbu Xu is presently working on a novel muon particle detector (for more details, see page 2). To join him for supper at a restaurant off site after the talk, contact Cora Feliciano, Ext. 3908 or felicia1@bnl.gov.

quenching." Xu will also discuss the relationship of these properties to the fundamental properties

(continued on page 2)



Inside Stories

- Then & Now — Start of new weekly series to mark 60 years of BNL history
- *Illustrated Timeline of the Universe* — Phil Harrington's latest star book has just been published
- Retiree Jack Russell awarded by St. Charles Hospital

CALENDAR OF LABORATORY EVENTS

- The BERA Store 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 Christine Carter, Ext. 2873.
- Additional information for Hospitality Committee events may be found at the Lollipop House and the laundry in the apartment area.
- The Recreation Building #317 (Rec. Hall) 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 —

Weekdays: Free English for Speakers Of Other Languages Classes

Beginner, Intermediate, 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 Social & Cultural Club
Noon-1 p.m., Brookhaven Center, South Room, free beginners dance lessons. Rudy Alforque, Ext. 4733, alforque@bnl.gov.

Mondays: Pilates/Yoga
12:15 p.m., Rec. Hall. Ext. 5090.

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

Mon., Tue. & Thu: Ving Tsun Kung Fu
Noon-1 p.m., Brookhaven Center, North Room. Taught by Master William Moy. Tuition. Scott Bradley, Ext. 5745 or bradley@bnl.gov.

Mon., Thurs., & Fri.: Tai Chi
Noon-1 p.m., Brookhaven Center North Rm. Adam Rusek, Ext. 5830, rusek@bnl.gov.

Tues. & Thurs: Jazzercise
Noon, Rec. Hall. Ext. 5090.

Tuesday & Thursday: Aerobic Fitness
5:15 p.m., Rec. Hall. 10 classes for \$40 or \$5 per class. Pat Flood, Ext. 7866, flood@bnl.gov.

Tuesday & Thursday: Aqua Aerobics
5:15 p.m., Pool. Ext. 5090.

Tuesdays: Welcome Coffee
10 a.m.-noon, apartment area gazebo. First Tuesday of every month is special for Lab newcomers and leaving guests. 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. Gym. All levels, ages 6 and above. \$10/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/toastmstrs/.

Tue., Wed. & Thu: Rec Hall Activities
5:30-9:30 p.m. General activities, TV, ping pong, chess, games, socializing. Christine Carter, Ext. 5090.

Wed. & Fri: On-Site Play Group
10 a.m.-noon, Recreation Bldg. An infant/toddler drop-in event. Parents meet while children play. Petra Adams, 821-9238.

Wednesdays: Ballroom Dance Class
Brookhaven Center, N. Ballroom. Instructor: Giny Rae. Arup Ghosh, Ext. 3974; Donna Grabowski, Ext. 2720; or Vinita Ghosh, Ext. 6226.

Wednesdays: Weight Watchers
Noon-1 p.m. Michael Thorn, Ext. 8612.

Wednesdays: Yoga
Noon-1 p.m., B'haven Center. Free. Ila Campbell, Ext. 2206, ila@bnl.gov.

Wednesdays: Pilates/Yoga
5:15 p.m., Rec Hall. Ext. 5090.

Thursdays: Reiki Healing Class
Noon-1 p.m., Bldg. 211 Conference Rm. Nicole Bernholz, Ext. 2027.

Fridays: Family Swim Night
5-8 p.m. BNL Pool. \$5 per family.

Fridays: BNL Social & Cultural Club
Noon-1 p.m., Brookhaven Center, South Room, free beginners dance lessons. 7-11:30 p.m. North Ballroom, Dance Social, workshops. Rudy Alforque, Ext. 4733, alforque@bnl.gov.

CIGNA at BNL, Mondays

On Mondays, 10 a.m.-1:30 p.m., Janice Petgrave, CIGNA, will be available by appointment only to assist CIGNA participants with claims issues that they have been unable to resolve themselves. To schedule a 30-minute appointment in Bldg. 185, call Linda Rundlett, Ext. 5126. Bring all pertinent documentation to the meeting.

Celebrating 60 Years: Then & Now

To mark the Lab's 60th anniversary, throughout 2007 the Bulletin will feature photos and/or articles reminding the present generation of the history of "then" that surged over the years to bring BNL up to "now." Some of the photos, such as this pair showing the main gates, will contrast old and new. Some, such as the fascinating series that will document the building of the Brookhaven Graphite Research Reactor, will be more appropriately titled "then" and "then" — and still another "then."

To make this series extra interesting, the Bulletin would particularly appreciate the loan of old photos of places and people from old-timers or their descendants, to be scanned for publication and returned. The photos, stories, etc. will be used as more grist for this mill of Lab history that may suddenly

become a millstone around the editor's neck (around week 29 or so perhaps) if new ideas are not forthcoming from as many all and sundry as possible.

During the search for visual changes from old to new, however, the most striking impression we retain is that, except for fashions in clothes and cars and, admittedly, the way people refer to women — the big picture shows not so much contrast as essential similarity. How familiar it all is, from 1947 through 2007: the struggles for funding, the vagaries of politics and personalities, the triumph of the crews who have completed a new facility or instrument of world record-breaking power — and the scientists' and supporting staff's tremendous passion for their work.

— Liz Seubert



This, BNL's main gate in 1947, is the present south gate. The car in the foreground is a 1941 Oldsmobile, most likely with the six-cylinder flat head engine of 238 cubic inches (4.0 liters) displacement and 100 horsepower. The price, new, in 1941 was about \$900. In BNL's May/June 1948 issue of *Isotopes*, a notice advised west-bound staff to use the west gate (the present main gate) at the end of Princeton Avenue, open in the morning and evening when traffic in and out of the Lab site was the heaviest.



BNL's main gate now, turning east off the William Floyd Parkway, is the Lab's old west gate. In this photo taken in December 2006, Fred Walther of the Central Fabrications Services Division shows his ID badge to the guard and passes through the gate driving his Honda S2000, which has a four-cylinder, 2.2 liter VTEC engine, producing the most horsepower per liter — 237 total — for any engine without supercharger or turbo enhancers.

Ride Though Stars of Cosmic History Phil Harrington coauthors his ninth book, *The Illustrated Timeline of the Universe*

A lot has happened in the last 13.7 billion years. That's the premise behind the book *The Illustrated Timeline of the Universe* (Sterling Publishing: 2006), coauthored by Phil Harrington of the BNL Training & Qualifications Program Office. In this, his ninth book, Harrington and coauthor Richard Sanderson trace the major highlights and events that led to the universe we know today. Beginning with the Big Bang, the reader is taken on an illustrated ride through cosmic history, past forming galaxies, stars, and our solar system, up to the latest astronomical discoveries.

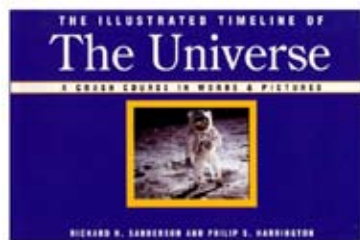
"The idea behind the book," says Harrington, "is that not only has our universe had an amazing history, it has also had a very beautiful one." Through a mix of color illustrations, explanatory text, and numerous sidebars, *The Illustrated Timeline of the Universe*

details some of the most pivotal events and amazing phenomena witnessed in our universe since its creation.

Harrington is also an adjunct instructor at Dowling College's Brookhaven campus, where he teaches planetary and stellar astronomy. He is also a contributing editor for *Astronomy* magazine, where he writes a monthly column called "Binocular Universe." And of his other books? The 4th edition of his best-selling book *Star Ware*, a consumer's guide to telescopes, will be out in late March. See www.philharrington.net/.

When asked about upcoming sky events to look forward to in 2007, Harrington says that the next big show will be a total eclipse of the Moon on Saturday, March 3.

"But every clear night," he concedes, "there is always something going on over our heads."



Roger Stoutenburgh D0081003

421st Brookhaven Lecture: Xu Discusses Color in Relativistic Heavy Ion Collisions

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of Quantum Chromodynamics (QCD), the basic theory of the interactions of the strong force that holds quarks and gluons together. After discussing the recent measurements related to the flavor and color dependence of energy loss of energetic partons, he will describe a couple of detector upgrades that will ad-

vance the understanding of the QCD matter created at RHIC.

Zhangbu Xu earned his B.S. from the University of Science & Technology of China at which he is now a guest professor. After earning a Ph.D. in physics from Yale University in 1999, he joined BNL as assistant physicist in June 2001 to work

in the STAR Collaboration, and was promoted to physicist in 2005. He currently works on a BNL Lab directed R&D project of "a novel and compact muon detector for a QCD Lab" that uses precise time-of-flight measured from a multi-gap resistive plate chamber (see photo, page 1) to reject background

and to identify the penetrating muon particle.

Xu's outstanding contributions were recognized in 2005 when he was among the 58 honored with the U.S. government's 2004 Presidential Early Career Award for Scientists and Engineers (see the Bulletin, June 17, 2005). — Liz Seubert

NSLS Stardust Research

(cont'd)

"To get to look at a comet and compare it to these other things is really exciting," she said.

One of the main findings of the study is that the materials from which our solar system formed must have undergone a considerable amount of mixing while the sun and planets were forming. "The common perception is that comets come from these really cold regions of the solar system with lots of ice," Lanzirotti said. "But we found minerals like olivine, high-temperature minerals that on Earth are formed in magma. It really says a lot about the violent early history of the solar system, where you have high-temperature phases being mixed with cold regions of outer space in a very rapid manner."

The comet dust was found to contain a wide variety of minerals, as well as organic materials. Some of these minerals and organics look similar to those seen in primitive types of meteorites, but both the minerals and the organics show the presence of some new materials not previously seen in meteorites.

One of the biggest challenges was accounting for the deterioration of the dust particles as they crash-landed into the aerogel at 14,000 miles per hour.

"They're looking at all the little components that were left behind after the particle hit the aerogel, and in the end, they want to get the composition of the original particle," said NSLS physicist Larry Carr. "The particles are a composite, with parts getting ripped off and left behind in the form of a debris trail. It would be like finding a dead body in the woods, along with footprints, pieces of cloth, and hair, and trying to figure out who the victim was."

"And the body has been torched," added Wirick.

Another challenge came with the aerogel itself, which contained organic materials that could have been confused during the analyses with the organics in the particles. "To mix this stuff with who knows how many compounds and then try to make sense of it is not optimum," Wirick said.

Now that the preliminary examination is complete, the samples will be made available to the general scientific community for more detailed study, possibly at the NSLS, where this small amount of dust has caused a great deal of attention.

"To think that we have the capability to go out hundreds of millions of miles away, collect these particles, and then land this thing back in an isolated desert in Utah is just incredible," Carr said. "It's just really cool to have a personal connection to a project like this instead of just hearing about it in a newspaper."

— Kendra Snyder

Retirees on the Move Russell Honored With Humanitarian Award

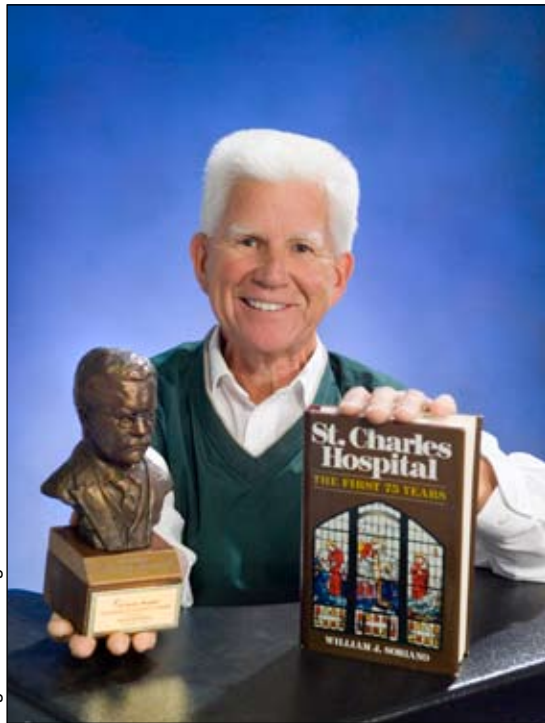
BNL retiree Jack Russell, who worked at the Lab 1979-2003, was honored in 2006 with St. Charles Hospital's annual Roosevelt Humanitarian Award. The award is given to individuals who have "upheld with distinction" the near century-old mission set forth by the Hospital's founders, the Daughters of Wisdom.

Russell, who was hired as a senior buyer in the then Contracts & Procurement Division that evolved into the Procurement & Property Management Division prior to his retirement in 2003, has special ties to St. Charles. Russell serves as Director on the Board for the Daughters of Wisdom, as well as on the hospital's Foundation Board. He is active in the alumni group and has served on countless committees and fund-raising events. His most important tie with the hospital, however, dated from his childhood.

In the 1940s, Russell's family lived in Brooklyn. While visiting relatives in Patchogue, he was suddenly stricken with what was diagnosed as polio. His parents took him to the nearest Long Island hospital, where a group of French nuns was making strides in polio treatments for children. With hope for their son's recovery, Russell's parents left him in care of the nuns and traveled by train from Brooklyn out to Port Jefferson to visit him. The nuns, known as the Daughters of Wisdom, formed the precursor group of today's St. Charles Hospital.

Russell spent three months in an iron lung, a machine that helped his muscles contract so that he could breathe. He underwent surgeries to correct a spinal problem, and in total, spent five years being cared for by the Daughters of Wisdom.

"I owe them my life," says Russell. "I've entered the doors of the hospital many times, including for the births of many of my grandchildren. It's a special place for me, and it would take 100 lifetimes to pay them back for giving me such a great life."



Roger Stoulenburgh D00412061

A great life for Russell included being able to build a career, which he ended as a senior contract specialist at BNL, without having health problems. "Not only did I have the energy needed for my job, but at the end of the day, I still had enough energy to volunteer at St. Charles, go running, and umpire softball and basketball games at the Lab," he said.

Since retirement, and 60 years after being treated for polio, Russell continues to participate in events at St. Charles, still runs several miles a week, and referees youth league basketball and softball. He especially enjoys playing tennis and traveling with his wife Jane. — Jane Koropsak

IEEE Awards Eric Forsyth

transmission has ever operated at the high power levels or for the length of time achieved in the BNL project, which demonstrated that superconducting cable is a viable technology.

Several comprehensive studies in cooperation with electric utility companies refined the technical design to optimize costs, and a landmark study conducted by the Philadelphia Electric Company concluded that the BNL design was the most cost-effective among sixteen options.

In 1986, Forsyth became Chair of the newly formed Ac-

celerator Development Department, responsible for various accelerator projects, including the pre-construction design and planning of the Relativistic Heavy Ion Collider (RHIC).

Forsyth retired in 1995 and has sailed extensively, including two circumnavigations around the world and cruises to the Arctic, Antarctic, and the Baltic. At present, he is on another cruise to Antarctica.

— Diane Greenberg
For more on this story, go to www.bnl.gov/bnlweb/pubaf/pr/PR_display.asp?prID=06-119.

Call for Nominations for 2007 Goldhaber Prize

Brookhaven Women in Science (BWIS) is now accepting nominations for the 2007 Gertrude S. Goldhaber Prize. This award honors the late Gertrude Scharff-Goldhaber, the renowned nuclear physicist who, in 1950, became the first woman Ph.D. appointed to BNL's staff. She was also a founding member of BWIS.

The \$1,000 award is granted to a female graduate student in physics, who is 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, she must be an enrolled physics graduate student who is a candidate for a doctoral degree, but she should not be graduating with that degree before spring 2007. She must either be enrolled at Stony Brook University or she should be performing her thesis research at BNL.

BNL staff and members of the faculty of the Department of Physics & Astronomy at Stony Brook University can make nominations before February 15. For more information or to obtain copies of the nomination form, contact Vinita Ghosh, Ext. 6226, or ghoshvj@bnl.gov.

Valentine's Day Blood Drive, 2/14

BNL will hold a blood drive on Valentine's Day, Wednesday, February 14, 9:30 a.m. - 3 p.m. at 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, contact Susan Foster, Ext. 2888, or Liz Gilbert, Ext. 2315.

Defensive Drive Class Tomorrow, 1/13

Places remain for the next six-hour Defensive Driving (Point & Insurance Reduction) course, to be held tomorrow, Saturday, January 13, in Room B, Berkner Hall, 9 a.m.-3:30 p.m. Organized by the ESH&Q Directorate, sponsored by USA Training Inc., and delivered by EAS Associates, the course is open to BNL, BSA, and DOE employees, facility-users, and their families. The cost is \$30 per person. Pre-registration is required. To register, call Edward Sierra, 821-1013, and leave a message with your phone number. For more information, call Sarah Wiley, Ext. 4207.

Arrivals & Departures

— Arrivals —

Dawood Aized C-A
James Davis CMP&MS
Gwendalina Delgado... Plant Eng.
Ranjan Grover C-A
Yuri Janssen..... CMP&MS
Ki-Sub Kim..... CMP&MS
Moo Sung Kim..... CMP&MS
Sean Li Vigni..... Plant Eng.
Bill Randall..... Plant Eng.
Guillaume Robert-Demolaize.... C-A
Crystal Scarlato HR&OMC
Sushil Sharma..... NSLS II
Dmitry Sokolov CMP&MS
Paiboon Sreearunothai... Chemistry

— Departures —

Robert Bennett Comp. Sci.
Heinz Bosshard Biology
Thomas Burke IA&O
Dennis Dwyer..... Staff Svcs.
Bill Greenberg..... Biology
Sidney Kahana..... Physics
Sharon Jones...Dep. Dir. Ops (DE)
Robert Klie CFN
Natalia Moiseeva NSLS
Brian Sack..... Dir. Off.
Sol Rosario Diversity

No Bulletin Next Week

The Lab will be closed on Monday, January 15, in observance of Martin Luther King Jr. Day. Therefore, there will be no Bulletin on Friday, January 19.

Call for Pollution Prevention Proposals — By 1/17

Your latest bright idea on pollution prevention is needed! It will help fulfill BNL's 2007 contractual Performance Evaluation and Measurement Plan, which states that "each Directorate shall prepare a Pollution Prevention proposal and shall evaluate that proposal for internal funding. Proposals may address hazardous, radioactive or industrial wastes and may include efforts in energy conservation, office recycling or management of electronic wastes."

Each proposal should include detailed cost estimates and calculation of a return-on-investment. (See www.bnl.gov/esd/pollution-preve/P2ROIFY04.htm for a sample proposal form.) Any proposal that results in a payback period of less than three years shall be made part of the FY 2008 budgeting process for funding consideration. Send proposals by January 17 to Peter Pohlot at pohlot@bnl.gov.

Benefits Office Reminder: Proof of Student Status

All medical/dental plan participants are reminded to submit an updated proof of student status to the Benefits Office, Bldg. 185, for the upcoming college semester. The Benefits Office will submit this to the insurance company on your behalf. To be eligible for benefits, children over age 19 must be unmarried, a full-time student attending an accredited college or university and primarily supported by you. Dependents who meet this criteria are covered until the end of the year age 23 is attained. You must notify the Benefits Office if you have dependents on your coverage that do not meet the above criteria. These dependents may be eligible for COBRA benefits. For more information, call the Benefits Office, Ext. 2877 or 5126.

On-Site Sociology Course Offered

The following Suffolk County Community College (SCCC) course will be offered on site for the spring 2007 semester and will satisfy requirements for most SCCC degrees. More students are needed to fulfill the minimum of 12 to run the course.

SO11 - Introduction to Sociology

Fundamental principles and concepts of sociology including culture, interaction, norms, values, institutions, stratification and social change. No prerequisite, 3 credit hours.

Employees who take college courses may apply for tuition assistance. BNL offers tuition advances or reimbursements at 75 percent for undergraduate courses. For more information, contact Starr Munson, munson@bnl.gov or Ext. 7631.

EAP Talks: Take Care of Your Health

Two talks will be presented by the Employee Assistance Program, noon-1 p.m. in Berkner Hall, Room B. Register by returning a completed form that was mailed to all employees to Linda DiPierro, Bldg. 490/OMC or e-mail dipierro@bnl.gov.

Wednesday, 1/24
"Bouncing Back: Stress Relief in Times of Uncertainty." Learn stress relief measures.

Wednesday, 1/31
"Chronic Pain: Taking Back Your Life." Learn to manage some types of pain.

CALENDAR

— THIS WEEKEND —

Saturday, 1/13

*Defensive Driving Course
9 a.m.-3:30 p.m. Berkner Hall, Room B. See notice at left.

— WEEK OF 1/15 —

Monday, 1/15

Lab Closed in Observance of Martin Luther King Jr. Day

The Lab will reopen on Tuesday, 1/16. No Bulletin will be issued on Friday, 1/19.

Wednesday, 1/17

Memory Disorders

12 - 1 p.m. Berkner Hall. "Keeping Your Mind Sharp — Memory Disorders," presented by Darlene Jyringi, MPS, Program Director of the Alzheimer's Disease Center of Long Island, Dept. of Psychiatry & Behavioral Science, Stony Brook University Medical Center. Contact Michael Thorn, Ext. 8612.

*421st Brookhaven Lecture

4 p.m. Berkner Hall. Zhangbu Xu, Physics Department, on "Practice of Color in Relativistic Heavy Ion Collisions." All are welcome to this free public lecture, open to the public. Visitors to the Lab of 16 and over must carry a photo ID. See story, page 1.

— WEEK OF 1/22 —

Tuesday, 1/23

Smoking Cessation Series Starts

Noon-1 p.m. Bldg. 490, Large Conference Room. Series of sessions on Smoking Cessation. Registration is limited. Spouses, family members and retirees are welcome. Register with Michael Thorn, Ext. 8612 or e-mail mthorn@bnl.gov.

Wednesday, 1/24

Weight Watchers Registration

Noon-1 p.m. Brookhaven Center. \$99 for the series of meetings. Michael Thorn, Ext. 8612 or e-mail mthorn@bnl.gov.

*Talk on Managing Stress

Noon-1 p.m. Berkner Hall, Room B. "Bouncing Back: Stress Relief in Times of Uncertainty." Talk by Nancy Losinno, Employee Assistance Program Manager. See notice below, left.

— WEEK OF 1/29 —

Wednesday, 1/31

COSTCO Demo

10 a.m.-2 p.m., Berkner Hall. Incentives & Giveaways will be available for all new members and renewals. Call Rose at 796-9298 for information.

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 in January on: Fridays 19 and 26, and Tuesday, 30; and in February: Tuesday, Wednesday, and Thursday, 13, 14, and 15, to answer employees' questions about their financial matters. The consultant will help employees understand the importance of protecting assets against inflation, find the right allocation mix, learn about TIAA-CREF retirement income flexibility, and compare lifetime income vs. cash withdrawal options. For an appointment, call Arlene Lyons, (866) 842-2053, Ext. 4629.

Please help. One can of food from each person fills BNL Food Drive bins.

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 benefits-eligible employees within the department/division and/or appropriate bargaining unit, with preference for those within the immediate work group; (2) present benefits-eligible 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. Access current job openings on the World Wide Web at www.bnl.gov/HR/jobs/.

The Deputy Director has exempted the following positions from the freeze:

OPEN RECRUITMENT – Opportunities for Lab employees and outside candidates.

MK4309. POSTDOCTORAL RESEARCH ASSOCIATE – Requires a Ph.D. in theoretical elementary particle physics. Position is with the High Energy Theory Group and begins October 1, 2007. The group has active programs in all areas of particle physics. Application deadline is February 1, 2007. Under the direction of A. Soni. Physics Department.

MK3761. POSTDOCTORAL RESEARCH ASSOCIATE – Requires a Ph.D. in physics, chemistry, materials science, or a related discipline, and demonstrated experience in transport or device physics. Experience in UHV surface science, scanning probe techniques, or NW synthesis/characterization is a plus. Research will involve working on a project on transport in individual semiconductor nanowires (NWs) and NW heterostructures and also focuses on electrical/photoelectric properties of NWs with well-defined surface termination and core-shell NWs — probed in UHV using a new UHV 4-Point Nanoprobe system — for energy applications (e.g., photovoltaics). Under the direction of P. Sutter/N. Camillone. Chemistry Department.

MK3762. POSTDOCTORAL RESEARCH ASSOCIATE – Requires a Ph.D. in chemistry, physics, materials science, or related field and expertise in applying low-temperature UHV spectroscopic STM to chemical physics investigations of surface chemical phenomena. Will conduct experiments to measure nanoparticle size-dependent hot-carrier dynamics and photoinduced nanoparticle chemistry with ultrafast time resolution and chemically-specific subnanometer spatial imaging. Will operate low-temperature STM, assist in the design and construction of time-resolved setup, and work to develop new methods for chemically-specific imaging. Under the direction of P. Sutter/N. Camillone. Chemistry Department.

MK4464. POSTDOCTORAL RESEARCH ASSOCIATE – Requires a Ph.D. in physical or biomedical science and a desire to participate in NIH and/or DOE sponsored research focusing on imaging physics for Positron Emission Tomography (PET). A background in nuclear medicine imaging instrumentation and/or methods for data processing and image reconstruction strongly preferred. Will contribute to developing a new small-animal PET tomograph and evaluation/optimization of its performance, including work in the areas of stimulation, hardware development, data acquisition and processing, and image reconstruction and analysis. Related projects include PET detector development for new applications of PET, and quantitative optimization of data processing for clinical research studies. Employment is contingent upon the successful completion of a DEA background check. Under the direction of P. Vaska. Medical Department.

NS4243. BUDGET SPECIALIST (A-6, reposting) – Requires a bachelor's degree in accounting or a business field (with emphasis in accounting classes) plus at least 4 years' related experience. Proficiency in Excel, budgeting experience, excellent oral and written communication skills and excellent interpersonal skills are required, as is ability to work with a team. Proficiency in other Microsoft programs, experience with PeopleSoft financial applications, and experience interfacing with the Laboratory's Budget Office is highly desired. Knowledge of GSS system (work-order system for Central Fabrication Services), rate development preparation, and labor cost is desired. Responsibilities will include budget development, analysis of cost and commitments, budget reporting, and presentation of monthly financial status to supervisors and managers using the PeopleSoft financial system for one or more support organizations. May also include rate develop-

ment preparation and coordination of GSS input and access oversight. Will be expected to identify and resolve the majority of complex problems within work area. Will involve regular contact within and outside BNL to obtain and provide detailed and complex information that will be used to make decisions of business consequence. Position will report directly to the Business Operations Manager for the Facilities & Operations Directorate and Procurement & Property Management Division. Facilities & Operations Directorate.

Motor Vehicles & Supplies

05 CHEVROLET MALIBU LS - V6, 3.5L, p/w, p/l, cd, FR/RR, abs, spoiler, warr. 26K mi. \$10,500/neg. 289-5209 or 790-1592.

04 TOYOTA SIENNA LE - pwr. sldg dr, rr air, new tires, brakes, org. owner, must sell. 50K mi. \$16,300/neg. Ext. 1045 or 816-9088.

04 CHEVY S10 PICKUP - crew cab., black, 4wd, all pwr., tow pkg., 6 CD changer, hwy. miles. 68K mi. \$13,000/neg. 278-1905.

04 VW JETTA GLS - 1.8 turb. Tiptronic trans., pwr. m/rf, htd seats/mirrors, Monsoon stereo, a/bg. 26K mi. \$14,950/neg. Ext. 7277.

04 YAMAHA TTR125E DIRT BIKE - mint cond., 1 1/2 year warr. elect. start, v. low hrs, \$1,800/neg. Ext. 4548 or 874-8631.

03 MINI COOPER - red, 5 spd. a/c, cd, abs, leather seats, mint cond., grt gas mi. 30K mi. \$13,999. Ext. 6072 or 807-9763.

02 CHRYSLER PT CRUISER TOURING - metic. maint, rcrds, new tires, brakes, rotors, tune-up. 50K mi. \$9,900/neg. 445-3873.

02 NISSAN ALTIMA 2.5S - silver, tinted windows, Sirius radio, auto start. 85K mi. Tony, Ext. 2226 or 793-2114.

01 OLDSMOBILE ALERO - silver, p/w, p/l, a/t, leather, very clean. 100K mi. \$5,000/neg. 744-7556.

00 BMW 328i - sport/prem. pkg., 4-dr, leather, a/t, Harmon-Kardon sound syst, xenons, excel. cond 73K mi. \$16,000. Ext. 8190.

00 TOYOTA SOLARA SE - original owner, excel. cond. 90K mi. \$7,900. 680-5645.

99 SUBARU LEGACY WAGON - 4-dr, awd, a/t, a/c, abs, c/c, cass/cd, p/l, p/w, keyless ent., rf rck, 72K mi. \$6,850/neg. 331-4538.

99 JEEP GRAND CHEROKEE LTD - v.gd. cond., loaded, new rebilt. a/t, V8, 4.7L, s/r, 10CD, leather. 92K mi. \$7,850. 360-8874.

99 HONDA CIVIC VP - orig. owner, 4 dr., a/t, a/c, vg cond. 81K mi. \$6,200/neg. 878-4246.

98 FORD EXPEDITION XLT - 4WD, 5.4 liter, 3rd seat, leather, 6 cd, loaded, white/tan, excel. cond. 123K mi. \$7,800. Rich, Ext. 7294.

97 MERCURY SABLE GS - full power, 6 cd, new brakes, well maint., excel. cond. 57K mi. \$3,400. Bill, Ext. 4201 or 567-5631.

95 CHEVY ASTRO convers/n van, a/t, all pwr. 7 sts, 4 cap. chr, tv/vcr, new tirs, wtr pmp, alt, fr. brakes, 103K mi. \$3,500/neg. 807-0997.

94 JEEP GRAND CHEROKEE LAREDO - 4WD, V8, loaded, good cond., orig owner. 140K mi. \$3,500. 928-5456.

93 CADILLAC SEDAN-DEVILLE - 6cyl, 4dr, a/c, am/fm, a/t,cass., gd cond., p/b, p/l, p/s, 145K mi. \$990. Ext. 5851 or 929-8622.

92 HONDA CIVIC DX - 2dr, runs ok. 100K mi. \$480/neg. 929-1033.

92 MAZDA MX-5 MIATA - 2 seats, convertible, 5spd., good cond. 94K mi. \$1,000/neg. Takashi, Ext. 2988.

4 NEW TIRES ON RIMS - new tires on GM 6-lug alum. mts, 265x75x16, \$800 obo; 4 more, same type rim, 1k mi. \$400. 369-3730.

OIL PAN - GM, brand new in box, 7 qt. pan for big block Chevy, will fit Camaro \$100 obo. Carl, Ext. 3084.

RIMS & TIRES - 4 Michelin 245/70-17 from '05 Dodge Ram 1500, 12K mi. on tires, gd. trd., all seas. type. \$225. 516-768-4331.

Furnishings & Appliances

BABY GRAND PIANO - Schubert, needs restoration, you pick up in Mt. Sinai, best offer. 331-3540.

CHAIR - lg. wingback, Broyhill, like new. \$50; TV stand, 2 shelves, \$10. Ext. 3830.

COMPUTER DESK & BOOKCASE - lt. grey oak corner desk w/file cab., mtchg 5-shelf b/case, excel. cond. \$200 neg. 331-3540.

DINING TABLE, 4 CHAIRS - solid bright wood, used 1 yr, on site, pic avail., pd. \$280, sell for \$90. Ext. 1045 or 816-9088.

FARM TABLE - 36x48, 4 sheath-back chairs, custom made, pic. avail. 749-2051.

FUTON - metal frame, 77 1/2" must sell ASAP, you pick up, pics avail. Ask \$50. Barbara, Ext. 3431.

GLIDER ROCKER & OTTOMAN - rust color, excel. cond., \$75 neg. 331-3540.

HUTCH - handcrafted dark pine. \$125 neg. Ext. 3830.

LIVING ROOM TABLES - Nichols & Stone, two-tone, high-shine finish. One coffee table, two end tables. \$200. Ext. 7918.

REFRIGERATOR - white Frigidaire, 18.2 cu. ft., \$100. Ext. 2094 or 831-3469.

REFRIGERATOR - 27 cu ft. beige, Kit. Aid side-by-side, external ice and cold water dispenser, excel. cond. \$350. 473-6546.

SECTIONAL - Natuzzi, leather, excel. cond., forest green, seats 8. \$800 neg. 331-3540.

TWIN MATTRESS AND BOX SPRING - brand name, excel. cond., onsite, pic avail. \$50. Kim, Ext. 1045 or 816-9088.

Audio, Video & Computers

13" Sharp, excel. color, on site, \$20; alarm clock w/radio, \$10. Panasonic ansrg. mach. \$10. Kim, Ext. 1045 or 816-9088.

CAR STEREO - Duraband, in dash, CD/MP2/CDRRW playback W/MP3 display, 45Wx4, \$100. Laura, Ext. 7842.

CAR STEREO - Pioneer, 50W/chan, CDRRW/MP3/WMA playback, satellite/ ipod compat, \$180. 434-5824.

COLOR MANAGEMENT SYST - Gretag MacBeth Eye-One, for digital photog., calibs. yr monitor, new. \$100. Ext. 3621.

COMPUTER & CUST. DESK - Commodore 64 sys. w/1702 mon, disk & tape drives, printer, software, etc., \$50/obo. 698-0057.

COMPUTER MONITOR - CRT, in good shape, 17 or 19 ins. \$5. Molly, Ext. 2362.

MONITOR - Viewsonic, 19" LCD flat screen display, Model VA903b, new in box, ask \$185. 929-4753 or 375-7264.

STEREO - Sharp, cass. recorder, high-spd dubbing, contin. play, 2-way, 4-spk, 4-band graphic equalizer. \$30. Ext. 5873.

TV - Sony 32" w/black glass door stand. \$275. 751-4539.

Sports, Hobbies & Pets

SKI BOOTS - Salomon, size 11 (33cm), blk. \$20. Skis, Head Cyber 190cm, blk./blue w/Solmn 800 bndgs. \$30. 513-8275.

VIOLA - excel. cond., case incl., bow not incl. \$1,600. Jeff, Ext. 5587 or 281-6770.

Tools, House & Garden

SLIDING DOOR - Anderson, 8 ft. patio door, excellent. \$1,000. John, Ext. 4028.

Miscellaneous

BABY'S GATES - 1 steel, \$30, 1 wood, \$20, wall mount, hardware incl. Chris, Ext. 2094 or 831-3469.

BABY'S ITEMS - Car Booster Seat \$20; Carrier/Rocker \$10; white closet w/2 drawers approx. 6'x3', \$40. 387-5629.

DOLLHOUSE - log cabin, 1" scale, photo avail. \$15. Ext. 3830.

ELECTRIC HEATER - Honeywell baseboard heater, adj. therm., 2 heating levels, 1000/1500W, 40" long. \$25. Ext. 3217.

WEIGHT BENCH - (includes weights) \$65. white baker's rack \$35; 387-5629.

WEDDING DRESS - new, white, White One brand, size 10, orig. over \$1,000, best offer over \$250. Ext. 3621.

WEIGHT BENCH - brand new Weider Pro 220 w/leg curler, 110 lbs. weights, you pick up. \$120. 828-6459.

Free

FISH TANK - 10 gals. accessories & stand. Tent canvas 8x10. Ron, 475-8162.

WASHING MACHINE - Whirlpool, heavy duty, works fine, free to 1st pers. who arranges pick up. Ext. 7644 or 929-4295.

Wanted

DINNING ROOM TABLE - seats 10, good cond. Mike, Ext. 6090.

Lost & Found

FOUND: GOLD/STONE FILIGREE PIN - found in cafeteria, call Andrea in the BERA Sales Office. Ext. 3347.

LOST: MP3 PLAYER - lost in gym wt room, red w/Sony hdpphones. Wei-Min, Ext. 8355.

For Rent

CENTER MORICHES - 1-bdrm. apt., full bath, 2nd flr, priv. ent. & prkg., gar., near stores, heat/water incl., no smkg./pets. \$875/mo. 929-4753 or 375-7264.

EAST MORICHES - 2 furn. rooms w/bath, m/wave kitchenette, pvt. ent., off-str. prking, heat/elec. incl. \$900/mo. 878-4246.

EAST PATCHOGUE - 3-bdrm, 2 full baths, d/r, l/r, den w/dryer, deck to pvt. yard, dr/way, quiet n'hood, Pat./Med. SD, 1 mo. sec. req'd. \$1,950/mo. 764-5759.

RIDGE - renov. 2-bdrm., 1-bath house w/ part. fin. bsmt., f/p, cac, eik, w/d, lg. fenced yard, nr. BNL. \$1,800/mo. 987-7984.

RIDGE - 1-bdrm. apt., 5 min to BNL, share w/single nonsmkr. \$450/mo, incl. heat & water, fully furn. \$450/mo. Sugadev, Ext. 2770.

ROCKY POINT - 1-bdrm. house, lg. l/r, lg. kit., bath, bsmt., no pets/smkg., water incl. \$1,075/mo. 744-8919.

ROCKY POINT - 3-bdrm. apt., lg. eik, full bath, lg. l/r, w/d, new paint, fenced yard w/gar. no pets, avail. immediately. \$1,800/mo. 929-5459 or 355-1586.

SHIRLEY - room for rent., stove kitchenette, furn., full bath, sep. ent., 5 min. to store/beach. 15 min. to Lab, no pets/smkg., 1 mo. sec., all incl. \$650/mo. Ext. 8321.

SHOREHAM - sublet, 1/15-7/1, 4-bdrm., 2-bath renov. house, furn., oil heat w/2 zones, f/p, 2 decks, walk to beach, l/net, Intl TV, plus util. \$1,300/mo./neg. 327-8222.

SMITHTOWN - lg. bdrm., l/r, eik, a/c, cable, util. incl., pvt. ent., off-str. prkg. no pets/smkg., nr golf course & town, 35 min. to BNL. \$1,100/mo. 516-983-8037.

SOUND BEACH - 3 bdrm., 1-1/2 bath, new Col., lg. eik, f/p, bsmt., level corner lot. \$1,800/mo. 278-1905.

WADING RIVER - new studio, l/r, full kit., lots of storage, pvt. dway, pvt. ent., pvt. patio w/fp/bbq, 10 min. to BNL, 1 mile to beach, util. incl. \$800/mo. Ext. 2553.

Lunchtime Tour — Get Weather Wise! 1/26

The next BNL Employee Lunchtime Tour will be a visit to BNL staff meteorologist Victor Cassella, who supplies meteorological data and forecasts in support of BNL science and operations. The tour will meet in the upper lobby of Berkner Hall on Friday, January 26, at noon. Call Elaine Lowenstein, Ext. 2400, if you have any questions.

BERA Trips, News

Advance tickets are required for all BERA trips and events, buy them at the BERA Store in Berkner Hall, Monday-Friday, 9 a.m.-3 p.m. Tickets are non-refundable. Trip buses leave from the Brookhaven Center.

Monday, 1/15 - Trip to United Nations

Join BERA's trip to the United Nations in New York City, on Dr. Martin Luther King Day. The cost is \$45 per person, for a guided tour and luncheon in the Delegate's Dining Room. Bus leaves BNL at 9 a.m.; leaves city at 5 p.m. Participants must be age 15 and over ONLY. Photo ID is required. Dress code: men must wear jackets, and no jeans, sneakers or shorts are allowed.

Sunday, 1/21 - Motorcycle Show

Bus trip, \$20 per person, for the Motorcycle Show at the Javitz Center in New York. The bus will depart at 8 a.m. and leave the Javitz Center at 4 p.m.

Saturday, 3/10 - Philadelphia Flower Show

The cost of \$25 per person covers luxury coach bus and admission. The bus will depart BNL at 6 a.m. and Philadelphia at 5 p.m.

BERA Fitness

See www.bnl.gov/bera/recreation/fitness.asp for a complete list of BERA-sponsored fitness classes.

Swimming Pool - More hours

The Pool is now open from 10 a.m.-2 p.m. and 4:15-8:30 p.m. Monday-Friday, and 10 a.m.-2 p.m. on Saturdays. See www.bnl.gov/bera/recreation/facilities.asp.

Exercise & Body Building Club

To renew your membership, mail a \$25 check, payable to the Body Building Club, to E. Levitt, Bldg. 134. Be sure your name, life number, extension, and email are on the check.

To join as a new Gym member, come to the Recreation Office in Staff Services, Bldg. 400, to see Christine Carter or Joanne Rula. All new memberships must be processed through the Recreation Office.

FREE Exercise Consultation & Orientation is offered twice monthly for all members of the BERA Exercise & Body Building Club. See www.bnl.gov/bera/activities/bodybldg/.

On-Site Masters Degree Program:

Technological Systems Management

Stony Brook University presents a 30-credit Masters Degree program in Technological Systems Management on site at BNL. New students are being recruited to begin in September 2007.

The program prepares students in technology management and knowledge integration. Students learn skills required to lead and manage the technological operations of global organizations. The program is designed for engineers, individuals pursuing careers in environmental and energy management, and professionals with technical experience.

Students learn how to manage technology and innovation; combine leading-edge tools and proven industry techniques to address technological and operational challenges faced by today's enterprises; improve their company's business process coordination and management decision making; act on and manage challenges in energy, environmental, and waste management, both worldwide and localized.

If you are interested or need more information, contact Marypat Taveras, 632-8762 or marypat.taveras@stonybrook.edu.

Join BNL Ballroom Dance Club Weekly Lessons With Instructor Giny Rae

Two new six-week series of ballroom dance lessons will start in the North Ballroom at the Brookhaven Center on Wednesday, January 17: Intermediate Swing, 6-7 p.m., and Intermediate Foxtrot, 7-8 p.m. Lessons end on February 28 — no lessons will be given on January 31. The fee for each six-week series is \$30/person.

Prospective new members may attend the first two weeks free on a trial basis. If they continue, they will be required to pay \$30/person. Lessons are open to BERA members with one guest permitted per member. For more information call Arup Ghosh, Ext. 3974; Donna Grabowski, Ext. 2720; or Vinita Ghosh, Ext. 6226.

YAPHANK - fully furn. studio apt., 4 mi. to Lab, high spd l/net, all incl, avail. 2/1. \$850/mo. 924-3049.

For Sale

BROOKHAVEN - 4 bdrm., 2 new baths & eik, oil ht., a/c, full bsmt., 2 car gar., next to wooded preserve, flower & organic veg. grdns. \$459,000 286-2505.

MEDFORD - Blue Ridge Condo devel., re-sort lvg w/indr, outrd pools, tennis, golf, 3 bdrm., 1.5 bath, l/r, d/r, kit., 2-level deck. \$334,900. Eileen, Ext. 3995 or 696-4366.

RIDGE - 3 (or 4) bdrm, 3 full bath, 100x200 property. \$399,000/neg. Joe, 929-1033.

SHOREHAM - 5-bdrm., 2-bath ranch, move-in cond., new appl., dr/way, cac, htg. syst. & hwh, f/p, ins., fenced yard, 18x18 shed. \$369,900/neg. 848-8072.

SOUND BEACH - 3 bdrm., 1-1/2 bath, new Col., lg. eik, f/p, bsmt., level corner lot, taxes \$3,100. \$350,000/neg. 278-1905.

BONTON BEACH, FL - condo, 55+, im-mac., move-in ready, 1,800 sq. ft., walk to club house., pool & tennis, incl. patio. \$219,900 516-495-0187.

ORLANDO, FL - T/share, 2 bdrm., d/r, l/r, kit., slps 8, many extras, 1 wk/yr at any West-gate Resort loc., see www.westgateresort.com. \$10,500/neg. Ext. 5263 or 375-7959.

On-Site Services

ENTERPRISE RENT-A-CAR - Stop by the on-site office at Bldg. 355, 50 Brookhaven Ave., to check weekend specials, daily rates. Or call Ext. 4888 or see www.enterprise.com.

ON-SITE SERVICE STATION - All vehicle services, NYS inspections, new batteries, tires, timing belts, repairs, etc., done while you are at work. Ext. 4034.

In Appreciation

To my friends at BNL, My family and I thank you for your support and compassion following the passing of my mother, Emma Fortunato. Your cards, flowers, and kindness are much appreciated.

—Joe Fortunato

To all my co-workers and friends, I thank you all for the thoughtfulness and caring prayers and good will for my sister, Louise Latka. I also thank all for their generosity.

— The Cordero Family / Latka Family

OnTheWeb, the Bulletin is located at www.bnl.gov/bnlweb/pubaf/bulletin.html. A calendar listing scientific and technical seminars and lectures is found at www.bnl.gov/bnlweb/pubaf/calendar.html.

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