

New Contribution Enables RHIC Operations

Statement From Lab Director Praveen Chaudhari



I am very pleased to announce that a group of partners at Renaissance Technologies Corporation and members of the Board of Directors of Brookhaven Science Associates (BSA) have made a remarkably generous contribution to the Stony Brook Foundation. The Stony Brook Foundation plans to

use this contribution to enter into a Work for Others agreement with BSA to enable the operation of RHIC (the Relativistic Heavy Ion Collider) this fiscal year.

Jim Simons, a member of the BSA Board and President of Renaissance Technologies, an investment management company, initiated and led the drive to raise the money.

A giant atom "smasher," RHIC is a world-class facility for the study of nuclear physics.

The Work for Others agreement between the Stony Brook Foundation and BSA, which we expect will be concluded very soon, will enable RHIC to continue to explore the smallest known pieces of matter—the tiny quarks and gluons that make up protons and neutrons—and how they interact.

All of us at Brookhaven Lab, including the 1,000 visiting scientists and students who collaborate on world-class science at RHIC, greatly appreciate the

generosity and leadership of Jim and the Renaissance group in raising the \$13-million contribution to the Stony Brook Foundation. He has done a great service for the Laboratory and the science community.

The Department of Energy's Office of Science has given Brookhaven National Laboratory very strong support for RHIC, and the international headlines garnered by RHIC science every year are in large measure the result of DOE commitment to funding nuclear physics. In the light of budget constraints, DOE had planned to fund 12 weeks of RHIC operations in FY06, but unexpected increases in electric power costs had made this limited level of operation impossible. Now, with the \$13-million contribution to the Stony Brook Foundation and the planned Work for Others agreement between the Stony Brook Foundation and BSA, the Laboratory will be able to operate RHIC for a full 20 weeks. This run should begin in early February.

I also recognize the solid commitment to the Laboratory from Senators Hillary Clinton and Chuck Schumer and from Congressman Tim Bishop, who have worked tirelessly on behalf of Brookhaven Lab.

All of us are looking forward to more exciting and intriguing results from RHIC. — Praveen Chaudhari

RHIC Hailed as a Top 2005 Science Story

BNL's Relativistic Heavy Ion Collider (RHIC) has garnered international headlines every year since its initial operation in 2000. In April 2005, RHIC scientists announced their consensus view that the early-universe matter they were recreating was more like a "perfect" liquid than the predicted gas (www.bnl.gov/bnlweb/pubaf/pr/PR_display.asp?prID=05-38). Indeed, at the close of 2005, RHIC's "perfect" liquid led several high-profile lists of the year's top science stories:

Discover magazine, 1/1/2006: Top-ranked physics story and number 22 of the top 100 science stories of 2005 (www.discover.com/issues/jan-06/cover/)

Big Bang Reenacted in the Laboratory

Physicists at Brookhaven National Laboratory on Long Island in New York announced in April that they had re-created the searing-hot mix of exotic particles that filled the universe during the first few microseconds after the Big Bang. Their experiment implies that the cosmos started out not as a hot, dense cloud of gas but as a strangely sublime, friction-free liquid. This dramatic result marks the culmination of three years of data collection by hundreds of scientists. . . . With this achievement, physicists can finally stop speculating about what matter was like right after the Big Bang and start studying it. . . . The results may help explain the behavior of subatomic particles and the evolution of the early universe.

USA Today 12/27/05: A "science standout" — the only one in physics — in this year-end review (www.usatoday.com/tech/science/2005-12-27-science-review_x.htm)

Big steps forward, some steps back

Science enjoyed the best of times — a daring landing on Saturn's frozen moon Titan — and the worst of times — a stem cell scandal that rocked the biomedical research world — in this roller-coaster year. . . . Among other science standouts: . . . By smashing two beams of gold atoms at near-light speeds, a Brookhaven (N.Y.) National Lab experiment re-created the high-temperature conditions last seen in the first moments of the universe's existence. The laboratory scientists found a liquid sea of fundamental particles, which was a surprise. Early predictions had indicated that they would find a primordial gas, not liquid.

Science News, 12/24/05: Top ranking story under physics in this recap of the year's top science stories (sciencenews.org/articles/20051224/bob26.asp)

Primordial ooze

After more than 20 years of striving to recreate in particle accelerators the fiery gas that was the first matter of the universe, physicists declared victory—but the matter's a liquid, not a gas (original story: www.sciencenews.org/articles/20050423/fob1.asp).

Physics News Update, the American Institute of Physics Bulletin of Physics News, 12/7/05: Number one physics story of 2005 (www.aip.org/pnu/2005/757.html)

The Top Physics Stories for 2005

At the Relativistic Heavy Ion Collider (RHIC) on Long Island, the four large detector groups agreed, for the first time, on a consensus interpretation of several years' worth of high-energy ion collisions: the fireball made in these collisions — a sort of stand-in for the primordial universe only a few microseconds after the big bang — was not a gas of weakly interacting quarks and gluons as earlier expected, but something more like a liquid of strongly interacting quarks and gluons (original story: www.aip.org/pnu/2005/split/728-1.html).

Questions, Answers on New Funding

Q. Can this contribution be used at the discretion of the Laboratory, or is there a stipulation it be used for RHIC operations?

A. The contribution is for RHIC operations only.

Q. What will happen in 2007 if Brookhaven Lab finds itself in a similar situation?

A. This is a one-time contribution. The Laboratory is hopeful that the FY07 budget will include full funding for RHIC operations and other Lab priorities.

Q. How does this influx of private funding impact the layoff situation at the Laboratory? What does this mean in terms of job security for Brookhaven employees?

A. Despite the contribution for RHIC operations, the Laboratory is still facing a budget shortfall in 2006. As a result of the fiscal steps that have been taken to minimize the budget's impact and the new information on funding, combined with the number of volunteers accepted to date, it now appears that significant involuntary layoffs will not be necessary in 2006. Throughout the year, shortfalls in individual programs will be addressed through targeted calls for voluntary reductions, attrition, and holding off on filling selected vacant positions. Only if these options fail will involuntary layoffs be needed.

Q. Has any such contribution been given to the Lab in the past?

A. As far as is known, this is a first.

Q. Does this reflect a new focus on seeking funding from private organizations? Given this success, will BNL seek private funding for other projects?

A. This contribution came about due to a widespread discussion and recognition that world-class research at RHIC was in danger. The Laboratory is constantly seeking alternative funding sources for scientific programs, typically from other government sources like the National Institutes of Health, the Department of Homeland Security, NASA, and New York State. This overall focus will not change. BNL does seek and accept funding from private organizations, but this has been on a considerably smaller scale.

Q. How will this funding be administered?

A. This funding is handled through normal channels between the issuing institution and the Laboratory, with DOE approval.

Q. Will the money be mixed in with BNL's other funds or kept separate?

A. All work for others funds, from whatever source, are kept separate.

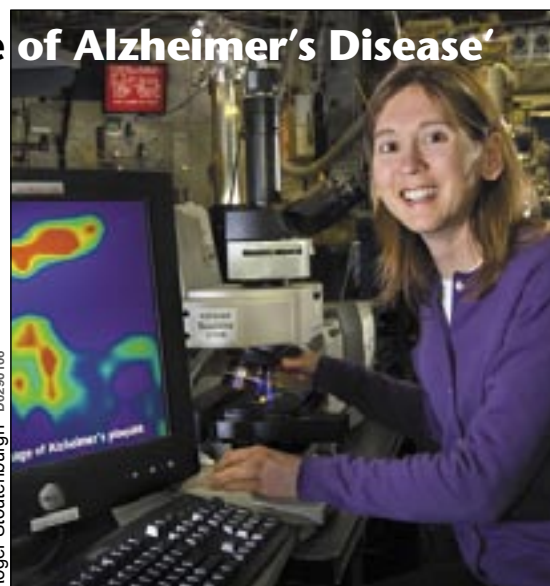
411th Brookhaven Lecture, 1/18 'Shining Light on the Cause of Alzheimer's Disease'

Alzheimer's disease is a progressive brain disorder that gradually destroys a person's memory and ability to learn, reason, communicate and carry out daily activities. An estimated 4.5 million Americans have it, a number that is expected to triple over the next 50 years. Today, one in ten people aged 65 and half of people over 85 are affected.

The cause of Alzheimer's disease is thought to involve the formation of "plaques" — tiny aggregates of a naturally occurring, but misfolded or misshapen protein — in the brain. Recently, the formation of these plaques has been associated with the binding of metal ions such as iron, copper, and zinc. Yet the function of these metal ions and the misfolded proteins in the disease process is not well understood.

Now, synchrotron infrared and x-ray microscopes are used to image the protein structure and metal content in the Alzheimer's-affected brain tissue, providing a better understanding of how the disease occurs and potential ways of preventing it in the future.

To learn about this research at BNL, join biophysical chemist Lisa Miller of the National Syn-



Lisa Miller of the National Synchrotron Light Source chrotron Light Source Department (NSLS) as she gives the 411th Brookhaven Lecture, on "Shining Light on the Cause of Alzheimer's Disease," at 4 p.m. on Wednesday, January 18, in Berkner Hall. Miller will be introduced by Chi-Chang Kao, NSLS Interim Chair. (continued on page 2)



Goldhaber Fellows To Give Mini Symposium, 1/26

To learn about the research of some of BNL's younger scientists, all are invited to a Mini Symposium on Thursday, January 26, 2-5 p.m., in the Hamilton Seminar Room, Bldg. 555, where the current eight 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 (above, right) Distinguished Fellowships were created four years ago with funding from Brookhaven Science Associates. Candidates are 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 BNL scientific staff member serving as their mentor. (continued on page 2)



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 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 (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 & Wednesdays: Pilates

Mondays at noon, Wednesdays at 5:30 p.m., both in Rec. Hall. 9-week session, \$60 for once a week, \$70 for twice a week. Registration is required. Christine Carter, Ext. 5090.

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 Rm. Adam Rusek, Ext. 5830, rusek@bnl.gov.

Tues. & Thurs: Aerobics

5:15-6:30 p.m., Rec. Hall. 10 classes for \$40, or \$5 per class, pay as you go. Pat Flood, Ext. 7866.

Tues. & Thurs: Aqua Aerobics

5:15-6:15 p.m. \$20 to attend once a week, \$40 to attend twice a week. For more information, call Ext. 2873.

Tues. & Thurs: Jazzercise

Noon-1 p.m., Rec. Hall. \$88 for twice-a-week eight-week session, you may use the membership at several Jazzercise locations. Christine, Ext. 5090.

Tues. & Thurs.: Ving Tsun Kung Fu

Noon-1 p.m., Brookhaven Center, North Room. \$80/month or \$10 per class, pay as you go. Taught by Master William Moy. Scott Bradley, Ext. 5745 or bradley@bnl.gov.

Tue., Thu. & Fri: Upton Nursery School

8:30 a.m.-noon, Rec. Hall. 2- and 3-day programs available. Kati, 821-4131.

Tuesdays: Welcome Coffee

10 a.m.-noon, Rec. Hall. 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. 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/.

Tues., Wed. & Thurs: Rec Hall Activities

5:30-9:30 p.m. General activities, TV, ping pong, chess, games, 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. Fang Dong, 871-5362.

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: Ballroom Dance Class

\$30/pers./6-weeks. Brookhaven Center, N. Ballroom. Beginner rumba, 6 p.m., adv. foxtrot, 7 p.m. Instructor: Giny Rae. John Millener, Ext. 3853; Madeline Windsor, Ext. 5069.

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

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

In Memoriam, Patricia M. Tuttle

Patricia Tuttle, who joined the Physics Department as a secretary B on July 21, 1947, and, after retiring as a senior administrative services assistant on September 30, 1984, continued to work part-time, most recently in the Advanced Accelerator Group (AAG) in Physics, died on November 2, 2005. She is survived by her husband, BNL retiree Bill Tuttle, who ascribes his wife's career as a successful administrator to her pleasant, forthright manner and her habit of double-checking everything that she was asked to do.

Memories of Tuttle are a vivid part of the lives of all who worked with her.

Bob Palmer, AAG Head, remembers, "I arrived at the Lab on

October 3, 1960, found my way to the Bubble Chamber Group's wooden barracks, and was welcomed by Ralph Shutt's secretary, Pat. It was she who decided that I should share an office with another recent arrival: Nick Samios. I continued to share, both office and science, with Nick for many years, so I owe a lot to Pat. In those days, we would cut and paste papers into 10-foot long ragged strips of mixed typing and illegible hand writing, and Pat would turn these into the neat next draft that we would again cut up. She never lost her cool. In the last few years, she has worked part-time for me in our advanced accelerator group,

becoming friend, counselor and cheerer-upper to all of us here. It is hard for me to think of BNL without her. It is not the same."

Retiree Anne Flood worked under Tuttle in the Bubble Chamber Group and learned many administrative skills from her as well as how to type complex physics equations. "Because of Pat's guidance and example, I moved on to many higher positions at BNL until I retired in 1994," says Flood.

As a part-timer, Tuttle worked closely with Kathy Tuohy of the AAG from 1988 on. "Over

the years we organized dozens of meetings and workshops," said Tuohy. "Pat was an extremely dedicated worker, careful, thorough, and completely honest — and she loved to have fun. She loved the Lab, and was thankful for all it had given her: her job, her husband, and her friends."

As well as by her husband, Bill, Pat Tuttle, a resident of Aquebogue is survived by her son, Daniel Wilson of the Collider Accelerator Department, and daughter, Debra Smith. Friends wishing to make a contribution in her name, can do so to either: The ALS Association, Greater New York Chapter, 116 John Street, Suite 1304, New York, NY 10038; or East End Hospice, P.O. Box 1048, Westhampton Beach, NY 11978.

— Liz Seubert



Four 'Gen Shirane' Awards Given At Neutron Scattering Conference

At the International Conference on Neutron Scattering (ICNS-2005) held in Sydney, Australia, November 27-December 3, and attended by approximately 800 participants from throughout the world, four awards were given to students and young scientists in honor of Gen Shirane. A Senior BNL Scientist and leader in the international neutron scattering community, Shirane died early in 2005.

During his 50-year career of doing neutron scattering experiments, mostly at BNL's High Flux Beam Reactor, Shirane had helped train many of the current leaders in the field. The awards, which consisted of a copy of a book Shirane recently co-authored, *Neutron Scattering with a Triple-Axis Spectrometer*, and a \$250 check, were donated by the Shirane family and Brookhaven Science Associates, the company that manages BNL.



The four award recipients pictured are: (from left) Mogens Christensen of the University of Aarhus, Denmark, whose research title is "The Rattler Effect in Thermoelectric Materials;" Ross Springell of University College, London, whose research title is "Polarized Neutron Reflectivity from Uranium/Iron and Uranium/Gadolinium Multilayers;" Mark Laver of the Institute Laue-Langevin (ILL), Grenoble, whose research is on "Spontaneous Symmetry-breaking Vortex Lattice Transitions in Superconducting Niobium;" and Kathleen Wood of ILL, Grenoble, whose research is on "The Relationship Between Hydration Water and Membrane Dynamics."

Goldhaber Fellows' Symposium, 1/26 (cont'd)

The eight Goldhaber Fellows who will speak at a Mini Symposium on Thursday, January 26, are:

Yinan Wei, biochemist, started at BNL in September 2003

Speciality: structural and functional studies of designed proteins. Princeton University Ph.D., Peking University B.S. Won Princeton's Harold W. Dodds Honorific Award given to one percent of students for outstanding performance and professional promise. *Mentor: Dax Fu*

Devicharan Chidambaram, materials scientist, joined the Lab in October 2004

Speciality: spectroscopic techniques for the study of surface analysis especially as related to corrosion resistance. Stony Brook University Ph.D. and MS. Awards include the President's Distinguished Doctoral Dissertation and graduate student awards from the American Vacuum Society, Society for Applied Spectroscopy, Sigma Xi, and the New York Society for Applied Spectroscopy. *Mentor: A.J. Francis*

Kuo-Wei Huang, chemist, came to BNL in October 2004

Speciality: structure and thermodynamic stability of titanium complexes ligated by stable nitroxide radicals. Stanford University Ph.D., National Taiwan University BS. Awarded the Yuan T. Lee Fellowship in Taiwan and a Stanford Graduate Fellowship. *Mentor: Etsuko Fujita*

Adrian Gozar, physicist, joined the Lab in October 2004

Speciality: spectroscopic studies of strongly correlated electron systems. University of Illinois (Urbana-Champaign) Ph.D., University of Bucharest B.S. Top ranked student at Illinois. *Mentor: Ivan Bosovic*

Alexander Milov, physicist, came to BNL in May 2005

Speciality: studies of light mesons decays in heavy ion collisions at the Relativistic Heavy Ion Collider (RHIC), detector construction. Weizmann Institute of Science, Israel, Ph.D. John F. Kennedy prize for doctoral research and the Israeli Physical Society's Distinguished Student prize. M.S. from the Budker Institute of Nuclear Physics, Russia. First place in competition of young scientist works. *Mentors: Michael Tannenbaum and Craig Woody*

Kyle Cranmer, physicist, joined the Lab in September 2005

Speciality: searches for the Higgs boson and physics beyond the standard model at the LHC, CERN. University of Wisconsin-Madison Ph.D., Rice University B.A. A specialist in the interface between experiment and theory, has pioneered modern data analysis and statistical techniques for high energy physics. Has more than 90 publications in a variety of fields. *Mentor: David Lissauer*

Mathew Maye, materials scientist, joined BNL in September 2005

Speciality: expertise in fundamental synthesis, self-assembly, and characterization of novel nanostructures. State University of New York at Binghamton Ph.D. Department of Defense graduate fellowship sponsored by the Army Research Office for work on employing self-assembled nanoparticles in fuel cell and sensor applications. Has published over 50 peer-reviewed articles. Awards include the Materials Research Society's gold award for graduate research. *Mentor: Oleg Gang*

Paul Sorensen, physicist, started at the Lab in October 2005

Speciality: measurements of identified particles in heavy-ion collisions. Postdoctoral researcher at Lawrence Berkeley National Laboratory, University of California at Los Angeles Ph.D. Winner of the RHIC-AGS thesis award. Discovered quark number scaling of azimuthal anisotropies indicating the relevance of sub-hadronic degrees-of-freedom in the early stages of heavy-ion collisions. Research on identified particles at intermediate transverse momentum incited extensive theoretical and experimental research. *Mentor: Zhangbu Xu*

Recital

BSA Noon Recital: Pianist Nyaho, 1/25

Pianist William Chapman Nyaho will give a concert featuring little-known composers from Africa, the Caribbean, England and the U.S. on Wednesday, January 25, at noon in Berkner Hall. Sponsored by Brookhaven Science Associates, the concert is free and open to the public. All visitors to the Lab of 16 and over must bring a photo ID.

A native of Ghana, West Africa, Nyaho earned a bachelor's degree from the Honour School of Music at Oxford University, a master's from the Eastman School of Music, and a Ph.D. in musical arts from the University of Texas. He was honored with the 1998 University of



Southwestern Louisiana Distinguished Professor Award and the 1998 Acadiana Arts Council Distinguished Artist Award.

Nyaho has given recitals in Europe, Africa, the Caribbean and the U.S. He has been featured internationally on radio and television, including National Public Radio, and he developed and hosted "The Bach Show" for the classical radio station KRVS in Louisiana.

Brookhaven Lecture, 1/18

(cont'd)

Refreshments will be offered before and after this free talk, which is open to the public. Visitors to the Lab who are 16 or older must carry a photo ID.

Lisa Miller obtained her B.S. in chemistry from John Carroll University in 1989, her M.S. degree in chemistry from Georgetown University in 1992, and her Ph.D. in biophysics from the Albert Einstein College of Medicine in 1995. Rejoining Albert Einstein in a faculty position, she worked with BNL scientists to develop

new tools using synchrotron light to study biological and medical problems. She joined the NSLS in 1999 and uses x-ray and infrared imaging to study diseases such as osteoarthritis, osteoporosis, and Alzheimer's. She is also an adjunct Assistant Professor in the Department of Biomedical Engineering at Stony Brook University, and she heads the NSLS Information Outreach Office, which communicates NSLS science to other scientists, government officials, and the community.

To join the speaker for supper at a restaurant off site after the lecture, contact Lydia Rogers, Ext. 4746.

Get to Know Your Lab**Lunch Tour: Pollution-Eating Trees**

Come to see the "forest" of poplar trees being grown at BNL by Daniel VanderLelie of the Biology Department to use for cleaning the environment. On Friday, January 20, the Employee Lunch Time Tour group will visit VanderLelie in his on-site greenhouse to learn about his bioremediation work. All are welcome. The group will meet at noon in Berkner Hall lobby to be taken to the greenhouse and return by 1 p.m. No reservations are necessary.

Resolve to Improve Your Health, Well-being!

The following Health Promotion and Employee Assistance Program (EAP) talks and programs are offered to help encourage all sorts of New Year's resolutions. For more information, or to sign up, call Michael Thorn of the Occupational Medicine Clinic (OMC), Ext. 8612. The new EAP website is www.bnl.gov/hr/occmec/EAP/default.asp. Call Nancy Losinno, EAP Manager, Ext. 4567 if you would like to come in to talk or register for a presentation.

Financial/Debt Management

Wed. 1/18. Five Habits of Highly Successful Investors, Ext. 8612.

Tues. 1/24. Planning for Retirement and Other Goals, Ext. 8612

Smoking Cessation

Mon. 1/23. New series starts. Pre-registration required. Open to retirees and spouses, Ext. 8612.

WeightWatchers on Site

Wed. 1/25. New WeightWatchers series registration.

Also available at OMC: Free consultation with dietician and exercise specialist, Ext. 8612.

Catching Up on Sleep

Thurs., 1/26. Noon-1 p.m. Berkner Hall. Talk on sleep catch-up by Steven Feinsilver, board-certified sleep and pulmonary specialist

Diabetes Screening

Sign up for screening. Those at risk due to being over 45; or being 10 lbs or more overweight, or those with a family history will get a \$20 gift card reward. Call Ext. 8612 for details.

Diabetes 101

Thur. 2/9: Registered dietician Amy Shapiro will talk on diabetes. Learn more, for yourself or for a family member, Ext. 8612.

For Help with Sleeping, Family, Depression, Stress, Alcoholism

Call EAP at Ext. 4567 to set up an appointment.

CIGNA: Call for Health Rewards Program flyer, Ext. 8612.

BERA: As well as offering discounts on gym equipment, BERA offers gym/bodybuilding membership at only \$25/year. Visit www.bnl.gov/BERA for information on fitness classes, more, Ext. 3347.

LIANS-ASM Joint Meeting, 1/18**John Weeks Memorial Lecture Honors John Weeks of BNL**

The annual joint meeting of the Long Island Section of the American Nuclear Society (LIANS) with the American Society of Metals (ASM) will be held on Wednesday, January 18, at the Brick House Brewery and Restaurant, 67 West Main Street, Patchogue.

This year, the meeting will feature the John Weeks Memorial Lecture in honor of the late John Weeks of Brookhaven National Laboratory (BNL), who was very active in both LIANS and ASM for many years. The Memorial Lecture will be given by Laura H. Lewis, Deputy Director, Operations and Outreach at BNL's Center for Functional Nanomaterials (CFN). Lewis's talk on "Nanoscience: It's All About Size" will include an overview of current and planned nanoscience research at the CFN.

After a social hour with complimentary *hors d'oeuvres* and a cash bar from 6 p.m., the meeting will continue with dinner at 7 p.m., and the talk at 8 p.m. The cost is \$22/person. For information and reservations, call and leave a voice-mail message with Arnie Aronson, Ext. 2606, by Tuesday, January 17.

Get a PerksCard For Discounts

The PerksCard discount program is available free to all BNL employees, retirees, and their families. To learn more, or to obtain a free PerksCard, go to www.bnl.gov/bera/recreation/discounts.asp. The card code is BNL5. Pick up a card at the RHC or NSLS Users' Office, the BERA Store, or the Recreation Office, Bldg. 197.

Arrivals & Departures**— Arrivals —**

Gabriella Carini.....NNS
Jan Flege.....CFN
Sarah Maine.....CEGPA
Dmitri Medvedev.....Medical
Lauri Peragine.....Fiscal
Nizamuddin Shaikh.....Chemistry
William Sherman.....CFN
Cheng Wang.....Biology

— Departures —

John Boccio.....EENS
Gabriele Carcassi.....Physics
David Cattaneo.....C-A
Thomas Clifford.....C-A
Paul Larsen.....Emergency Svcs.
Donald Lazarus.....C-A
Jawaid Mansury.....Biology
Ann Marie McCarthy.....Fiscal
Siegfried Naase.....C-A
Sangmoon Park.....Physics
Kenneth Pedersen.....NSLS
Edward Quimby.....C-A
Shai Vaday.....Biology
Emil Varrichio.....C-A

ASAP CrossTalk

All are invited to ASAP's student and postdoc "CrossTalk" on Thursday, January 19, at 4 p.m. in the National Synchrotron Light Source (NSLS) 2nd Floor Seminar Room. Lisa Miller, NSLS, will welcome attendees and give a tour of the NSLS at 4 p.m. Presentations will be held from 5 to 6 p.m., followed by refreshments. For more information, call Christine Carter, Ext. 5090.

Lifeguard Training

American Red Cross Lifeguard training will be offered at BNL, February 12-April 2. Participants must be at least 15 years old and must pass a pre-qualifying test on February 5. Application forms are available at www.bnl.gov/bera/recreation/fitness.asp, or call Ext. 2873.

BERA IAA Raises \$575 for Katrina Victims

At the November 2005 celebration of Diwali, the Festival of Lights, which the BERA Indo American Association (IAA) holds annually to share the enjoyment of the traditional music, dancing, and cuisine of India, the club raised \$575 for the American Red Cross to help Katrina flood victims. The club also thanks FLIK, the Lab's food management service, and the Diversity Office, for contributions to this total. The warm, family-style festival was attended by about 400 adults and children, many of whom gave skilled and charming performances that transcended the walls of Berkner Hall, carrying the audience into the beauty, delicacy, and excitement of culture from India.

Dance Social, 1/20

The 20-piece "Bill Wilkinson, His Band and Singers" will perform during a BNL Social & Cultural (S&C) Club dance social at the North Ballroom of the Brookhaven Center on Friday, January 20, 8-11 p.m. A one-hour beginner dance lesson in East Coast Swing will be given 7-8 p.m., and, after the performance, an extra hour of DJ music will play until midnight. The event is open to the public, and all visitors of age 16 and over must bring a photo ID.

Tickets cost \$15 each in advance, \$20 at the door; buy them at the BERA Store, Berkner Hall. Members of Brookhaven's Association for Students And Postdocs (ASAP) are offered a 50 percent discount. Contact Rudy Alforque, Ext. 4733 or rudy@bnl.gov for more information.

**Employee Assistance Program Lecture, 1/26
'Catching Up On Your Sleep'**

Are you getting enough sleep? The Employee Assistance Program invites all BNLers to attend "Catching Up On Your Sleep," a lecture presented by Steven Feinsilver, M.D., of Cardiovascular Medical Associates, on Thursday, January 26, noon-1 p.m., in Berkner Hall. Feinsilver will review topics including how much sleep you need, what makes you sleepy by day and keeps you awake at night, and how to create better sleep hygiene. Check your mailbox for registration forms. Return completed forms to Linda DiPierro, Bldg. 490 or dipierro@bnl.gov.

Reimbursement Account Deadline, 3/31

According to the Internal Revenue Service, contributions to health care or dependent day care accounts made during calendar year 2005 will be forfeited if they are not used by March 31, 2006. So, do not forget to use up balances within all 2005 reimbursement accounts by claiming expenses incurred in 2005. To do so, submit claim forms by March 31, 2006.

'Fiona's Atlantic Adventure'**Latest Eric Forsyth Saga, 2/14**

All are invited to view the latest video made by retiree Eric Forsyth, who sailed around the Atlantic aboard his yacht, *Fiona*, from June 2005 to May 2005. Forsyth will show the one hour, six minutes video, "*Fiona's Atlantic Adventure*," at noon on Tuesday, February 14, in Berkner Hall. As anyone will agree who has had the fun of attending Forsyth's fascinating accounts of his previous *Fiona* voyages, this will be a not-to-be-missed opportunity to view Canada, Ireland, Scotland, the Baltic, England, Portugal, the Canaries, Brazil, the Falklands, Uruguay, the Caribbean, and Bermuda from a unique seafarer's perspective. So, don't miss it!

TIAA-CREF One-on-One Retirement Counseling

A TIAA-CREF consultant will visit BNL on Monday, January 23, Wednesday, January 25, and Monday, January 30 to answer employees' questions about financial matters.

The consultant will help you: understand the importance of protecting your assets against inflation, find the right allocation mix for you, learn about TIAA-CREF retirement income flexibility, and compare lifetime income vs. cash withdrawal options. For an appointment, call Kathy Murphy, (866) 842-2053, Ext. 4625.

Rent a Car From Enterprise Rent-A-Car On Site

Need a reliable vehicle for a long weekend, from a place where you can leave your own car safely parked? Or, would you like to rent a car for a day to go shopping? You can rent vehicles right here on site, at Bldg. 355, 50 Brookhaven Avenue, at Enterprise Rent-A-Car. A large selection of vehicles, including vans and 4x4s, is available for business or personal use, at discounted rates, daily, weekly, and monthly, with some weekend specials. Stop in at Bldg. 355, or call Ext. 4888 or 4889, Monday through Friday, 8:30 a.m. to 5 p.m., or visit www.enterprise.com for more information.

Pilates Classes Start, 1/30

Pilates classes will be held for an eight-week session from Monday, January 30, to Monday, March 27. Classes will be given twice a week in the Recreation Hall, on Mondays at noon and on Wednesdays at 5:30 p.m. The cost to attend once a week is \$60; twice a week is \$70. To register, make a check payable to BERA and send it to Recreation, Bldg. 179B, or call Ext. 2873.

CALENDAR**(CONTINUED)****— THIS WEEKEND —****Saturday, 1/14****Gym, Swim Pool Closed**

In observance of the Martin Luther King Day holiday weekend, gym and pool are closed through Monday, 1/16.

— WEEK OF 1/16 —**Monday, 1/16****Martin Luther King Day Observed**

BNL will be closed today in observance of Martin Luther King Day. No Bulletin will be printed on Friday, January 20.

Wednesday, 1/18***411th Brookhaven Lecture**

4 p.m. Berkner Hall. Lisa Miller of the National Synchrotron Light Source Department will talk on "Shining Light on the Cause of Alzheimer's Disease." All welcome. Visitors of age 16 and over must carry a photo ID. See story, page 1.

Thursday, 1/19**Talk on BNL's Economic Impact**

4 p.m. Hamilton Seminar Room, Bldg. 555. Economist Pearl M. Kamer will talk on "BNL: A Key Economic Resource for Long Island and New York State." All are welcome to this free, public talk. Visitors to the Lab age 16 and over must carry a photo ID.

***ASAP CrossTalk, NSLS**

4 p.m. NSLS lobby. See notice, below, left.

Friday, 1/20***Dance Social With Live Band**

7 p.m.-12 a.m. Brookhaven Center. Bill Wilkinson, his band and singers, and more, sponsored by BERA Social & Cultural Club. Tickets: \$15 in advance, \$20 at door. See notice at left. Rudy Alforque, Ext. 4733 or rudy@bnl.gov.

Saturday, 1/21***Hammer of the Gods Concert**

7:30 p.m. Berkner. The Hammer of the Gods rock band — guitar, vocals, drums, & bass — will feature music of Led Zeppelin of 1970s fame. "Nothing short of spectacular" says *Good Times Magazine*. Sponsored by the BNL Music Club. Buy tickets, \$20, at the BERA Store or online at www.ticketweb.com. Ext. 5257 for more information. See page 4.

— WEEK OF 1/23 —**Monday, 1/23****IBEW Meeting**

6 p.m. Centereach Knights of Columbus Hall, 41 Horseblock Rd., Centereach. A meeting for shift workers will be held at 3 p.m. in the union office. The agenda includes regular business, committee reports, and the president's report.

Wednesday, 1/25***BSA Noon Recital: Pianist Nyaho**

Noon. Berkner Hall. All are welcome to this free concert by pianist William Chapman Nyaho. See notice, page 2. Visitors to the Lab of 16 and over must carry a photo ID.

— WEEK OF 2/6 —**Saturday, 2/11****Bus to Museum of Natural History**

8:30 a.m. Brookhaven Center. Sponsored by BERA, the luxury bus leaves the Lab for the Museum in New York City, and leaves the Museum at 5 p.m. for return to Lab. Tickets include all, are \$25 for adults and children. Buy tickets at the BERA Store.

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.

