

## Ben-Zvi Wins Free Electron Laser Prize

Ilan Ben-Zvi, Collider-Accelerator Department, and James Rosenzweig, University of California-Los Angeles, have won the 2007 Free Electron Laser (FEL) Prize. Sponsored by the International Free Electron Laser Conference, held this year in Novosibirsk, Russia, the prize consists of an award citation, a plaque, and approximately \$2,500 for each recipient.

Ben-Zvi was recognized for his outstanding contributions to FEL science and technology. FELs, research tools that combine the focus of lasers and the intensity of synchrotrons, are used for studying a wide variety of materials and chemical reactions. A synchrotron is an accelerator producing various wavelengths of light for atomic-level research. Ben-Zvi and Rosenzweig collaborated on some subjects and were acknowledged for similar contributions to the field.

"X-ray free electron lasers have excellent imaging capabilities, enabling biologists to resolve the structure of proteins, material scientists to study nanomaterials, and much more," Ben-Zvi explained. "An x-ray FEL source with laser power and brightness opens up new areas of science. Several of these facilities are now being built around the world."



Ilan Ben-Zvi (left) accepts the Free Electron Laser Prize from Hiroyuki Hama of Tohoku University, Japan.

Ben-Zvi's work leading to the FEL Prize included two facets of FEL technology. First, he developed laser-photocathode radiofrequency guns that provide record brightness to laser beams. These devices produce highly concentrated bursts of electrons and accelerate them to nearly the speed of light, making possible such facilities as the Linac Coherent Light Source (LCLS) at DOE's Stanford Linear Accelerator Center. The LCLS is a free electron laser that combines laser-like x-ray beams with extreme brightness, short wavelengths, and short electron pulse duration — important features for studying materials on the atomic scale, including light-

induced structural changes on time scales of a quadrillionth of a second. This will allow scientists a glimpse on a time scale never before possible and open untold opportunities for understanding catalysis, chemical processes, and molecular assembly.

Also, Ben-Zvi performed proof-of-principle experiments on x-ray single-pass FELs at BNL's Accelerator Test Facility that demonstrated basic FEL principles and the feasibility of their application in building the LCLS. FELs are called single-pass when radiation builds up so fast that only a single pass of electrons through the FEL is sufficient to produce the full

(continued on page 3)

## Building the 'Brains' of Electronics: Part II

### Fabrication, Assembly

After the designers' work is finished, the intricate blueprints are passed on to the Printed Circuit Board Fabrication Group. Here, each inner layer of the circuit board receives a single sheet of copper material, which is given a photosensitive coating and imprinted with the image of the board using ultraviolet light. The underlying copper on the unexposed portion of the sheets is then revealed and stripped away. Each layer is cleaned, coated with tin, and stuck one on top of the other with a bonding material. The resulting stack is heated and compressed together before it is drilled according to the individual design. This is done with a top-of-the-line machine that has the capability to drill up to 600 holes a minute with extremely high accuracy.

Once the drilling is complete, the inner board is put

The Bulletin of September 28 included Part I of an article on the Instrumentation Division's makers of the so-called "brains" of sophisticated electronic devices used in experiments throughout the Lab. Exposed to extreme environments such as high radiation, humidity, and cryogenic temperatures, these boards are not readily available in the commercial market. So the job is done by scientists and engineers in Instrumentation, who design, fabricate, assemble and test the custom-made boards.

In Part I, the work of the Printed Circuit Board Design Group was described. Part II relates what happens to the circuit board when the designers' work is finished and sent to the Printed Circuit Board Fabrication Group and the Assembly Group.

To read the full story, see [www.bnl.gov/today/static/instrumentation.asp](http://www.bnl.gov/today/static/instrumentation.asp), where you can also watch a brief movie highlighting BNL's printed circuit fabrication facilities.



With their supervisor Joseph Mead (back, right) are the members of the Instrumentation Division's Printed Board Fabrication Group: Ron Angona (seated) and Howard Hansen (back, left) and Micro-Electronic Assembly Group: John Triolo (left) and Don Pinelli (back, second from left).

through a series of vats to clean it and make the newly formed holes conductive to electricity. Then the process is repeated with the outer layers of the board, which eventually are added to the middle section.

Then, when all the layers are intact, the board is given to the Assembly Group. It is here

either be sent to an experiment for testing and use, or given to an outside company for mass production. If problems arise, it might be sent back to the Assembly Group for rework. From conception to completion, it could take as long as eight months to build these small, but intricate, pieces.

— Kendra Snyder

## Symposium to Celebrate BNL's 60 Years of Discovery

Full-day event, 10/19, features talks on accelerators, nanoscience, addiction, climate, energy, and more

As part of its 60th anniversary celebration, on Friday, October 19, in Berkner Hall, BNL will host a full-day symposium for employees, guests, and others interested in hearing renowned scientists speak about past and current developments in fields in which the Lab has been and continues to be a pioneer. Talks on topics ranging from nuclear and particle physics to neuroimaging, nanoscience, climate change, and energy will be followed by a celebratory reception.

Home to six Nobel Prize-winning discoveries, BNL is a multidisciplinary research institution featuring world-class programs in many of today's top fields in science. The symposium, hosted by Laboratory Director Sam Aronson, will celebrate BNL's past and offer a glimpse of the future through the eyes of those on the front lines of discovery. The agenda follows:

- 9-9:15 a.m. .... BNL reflections  
Sam Aronson, BNL Director
- 9:15-10:15 a.m. .... Accelerator Design and Instrumentation  
Robert Palmer, Senior Physicist, BNL  
Veljko Radeka, Division Head, Instrumentation Division, BNL
- 10:15-10:45 a.m. .... Break
- 10:45-11:45 a.m. .... Basic Energy Sciences  
Martin Blume, Senior Physicist Emeritus, BNL, and Editor-in-Chief Emeritus, American Physical Society  
Seamus Davis, Professor of Physics, Cornell University, and BNL
- 11:45 a.m.-12:45 p.m. .... Nuclear and Particle Physics  
William Zajc, Professor of Physics, Columbia University  
Nicholas Samios, Director, RIKEN BNL Research Center, BNL
- 12:45-2 p.m. .... Lunch
- 2-3 p.m. .... Life Sciences  
Nora Volkow, Director of the National Institute on Drug Abuse, National Institutes of Health  
Wayne Hendrickson, Professor of Biochemistry and Molecular Biophysics, Columbia University
- 3-3:30 p.m. .... Break
- 3:30-5 p.m. .... Computational Biology  
David Keyes, Fu Foundation Professor of Applied Mathematics, Columbia University  
Climate Change  
Stephen Schwartz, Senior Chemist, BNL, and Chief Scientist, DOE Atmospheric Science Program  
Energy  
Dan Nocera, W.M. Keck Professor of Energy and Professor of Chemistry, Massachusetts Institute of Technology
- 5-6 p.m. .... All-employee and guest reception

## Emmy Award for Addiction HBO series

A landmark HBO "Addiction" documentary series featuring a significant segment on brain imaging studies at Brookhaven Lab's positron emission tomography (PET) facility has won an Emmy! The "Governor's Award" — considered the Academy of Television Arts & Sciences' highest honor — is given in recognition of programming that demonstrates commitment to important social causes.

Dick Askin, Chair of the Academy's Board of Governors, saluted the series "for harnessing the power of television to educate and inform viewers about . . . issues that touch all of us."

Nora Volkow, Director of the National Institute on Drug Abuse (NIDA) and continuing BNL collaborator, accepted the award.

"This project," she said, "has allowed us to reach millions with our message — that addiction is a chronic, relapsing brain disease. It does not care if you are rich or poor, famous or unknown, a man or woman, or even a child. If science-based treatment principles are followed, addiction treatment can work, and people can reclaim their lives."

The series and an accompanying educational outreach program were produced by HBO in partnership with NIDA, the National Institute on Alcohol Abuse and Alcoholism (NIAAA), and the Robert Wood Johnson Foundation. Volkow is featured prominently in the 14-part series — both in interviews and in scenes working with a patient and staff at BNL's PET imaging center. BNL staff gave a great deal of their time to work with NIDA and the production crew to organize and take part in two days of filming on site.

The programs were made available free — even to those who did not subscribe to HBO — via television, over the HBO website, and via podcasts. View the entire program on the HBO website, or go directly to the main segment featuring BNL. — Karen McNulty Walsh

**CALENDAR**

**OF LABORATORY EVENTS**

- The BERA Store in Berkner Hall 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.
- 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](http://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](mailto:alforque@bnl.gov)

**Mondays: Pilates**  
Noon-1 p.m. Rec. Hall. Ext. 5090

**Mondays & Wednesdays: Pilates**  
5:15-6:15 p.m. Rec. Hall. Ext. 5090

**Mondays: Jiu Jitsu Club**  
6:30-7:30 p.m. B'haven Center. All levels, ages 6 & up. \$10/class. Tom, Ext. 4556

**Mondays & Thursdays: Kickboxing**  
\$5 per class. Noon-1 p.m. in the gym. Registration is required. Ext. 8481

**Mon., Thurs., & Fri.: Tai Chi**  
Noon-1 p.m., B'haven Center North Rm. Adam Rusek, Ext. 5830, [rusek@bnl.gov](mailto:rusek@bnl.gov)

**Tue., Thurs. & Fri.: Ving Tsun Kung Fu**  
Noon-1 p.m., B'haven Center, North Room. Taught by Master William Moy. Scott Bradley, Ext. 5745, [bradley@bnl.gov](mailto:bradley@bnl.gov)

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

**Tuesdays: Hospitality Coffee**  
10:30 a.m.-noon, Rec. Hall lounge. All welcome. Ext. 5090

**Tuesdays: BNL Music Club**  
Noon, B'haven Center, N. Room. Come hear live music. Joe Vignola, Ext. 3846

**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](mailto:flood@bnl.gov)

**Tuesday & Thursday: Aqua Aerobics**  
5:30-6:30 p.m., Pool. Ext. 5090

**Tuesdays: Knitting, Crochet Club**  
2-4 p.m. Rec. Hall. Lessons of basics, yarns, needles available. Su Yen Chae, Ext. 1051, [suyenchae@yahoo.com](mailto:suyenchae@yahoo.com).

**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/](http://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.

**Wednesdays: On-Site Play Group**  
10 a.m.-noon. Rec. Hall. Infant/toddler drop-in event. Parents meet while children play. Petra Adams, 821-9238.

**Wednesdays: Ballroom Dance Class**  
B'haven Center, N. Ballroom. Instructor: Giny Rae. Starts September 12 and 19. Ext. 3845.

**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](mailto:ila@bnl.gov)

**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., B'haven Center, South Room, free beginners dance lessons. 7-11:30 p.m. North Ballroom, Dance Social, workshops. Rudy Alforque, Ext. 4733, [alforque@bnl.gov](mailto:alforque@bnl.gov)

**CIGNA Representative**

A CIGNA Healthcare representative is available as needed in Human Resources, Bldg. 400, or by phone to assist with claims issues you have been unable to resolve yourself through CIGNA's Customer Service number (1-800-CIGNA24). Mary Beth Kivlen will be available by appointment only. You will need to provide all pertinent documentation. To schedule, call the Benefits Office, Ext. 5126.

**Then & Now — Some Long Term Employees — Part I**

In 1967, the Lab's Bulletin Board newspaper reported on seven "retiring" BNLers, including Burton Greenough, a crane operator in the Plant Maintenance Division. He had worked at the Lab for 20 years, and from the poem he wrote on retirement was obviously looking forward to having time on his side:

"When I retire I'll stay up and watch the Late Late Show, and sleep the morning through;

Forget about the old alarm clock, for that's gonna retire too!"

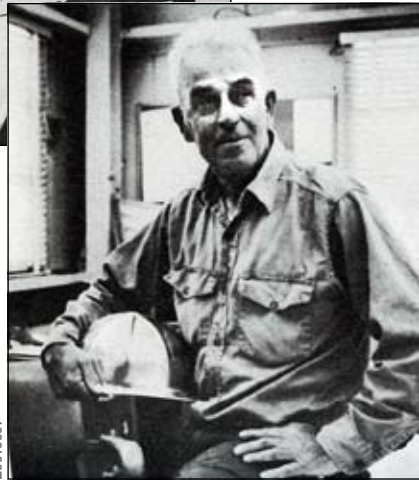
Others who, like Greenough, had joined the Lab in 1947, stayed on longer. Each month, the Lab honors the service anniversaries of long-term employees. Ten years is the first to be noted, then 20, 25, 30, 35, 40, and more.

In 1987, the Lab's fortieth anniversary year, the Brookhaven Bulletin published a series of articles about employees — support staff, scientists, men, women — who had worked at BNL for 40 years. From a sampling of their reminiscences, a developing, beckoning picture of the Lab emerges, and from the number of employees who still stay on for 40 years and more, the picture still holds its brightness.

Bernard Manowitz, in 1987 the Chair of the Department of Applied Science, spoke of his first impression on arriving at the Lab 40 years earlier. "Everything was rolling. New accelerators, the Hot Lab and the Graphite Reactor were being planned, all on a scale never before attempted. It was an exciting time, and I very much



Bob Walton (left) "taking the air" to get aeriels of BNL in 1948.



(Below) Burton Greenough, a 1967 retiree.

wanted to be a part of it." (Brookhaven Bulletin [BB], Oct. 16, 1987).

"It's a good place to work," said Charles Gargliardo, a Lab driver in the Staff Services Division, who had started at BNL in 1947 with life number 482, and was looking back after 40 years of driving service. "The changes over the years have never changed that." Gargliardo remembers the time that Lloyd Berkner, president of Associated Universities, Inc., from 1951 to 1960, had a 9 a.m. train to catch from New Jersey. "He was going to a very important meeting, or we would never have started," said Gargliardo. "There was such thick fog, you could hardly see one car's length ahead. It was quite a strain. After about halfway, Dr. Berkner insisted on driving. 'Your eyes will get tired, it's my turn now,' he said. He drove on, and we made it!" (BB, June 5, 1987)

Kenneth "Whistle" Swezey, a storekeeper in the Supply & Materiel Division, held life number 427. In a 1987 inter-

view with the Bulletin, he remarked on the most important change he'd seen. "We started out doing everything by hand. Then we switched to punch cards. But the computers we got about three years ago have really cut down the paperwork. It's a hundred percent better." After 40 years at the Lab, Swezey was anticipating his retirement. "I'm going to miss the place," he said. "But mostly, I'll miss the people." (BB, Feb. 27, 1987)

Bob Walton was issued life number 536 when he joined the Photography & Graphic Arts Division in April 1947. An early assignment was to take aerial photos of the site in 1948. "A duck farmer in Center Moriches had a Piper Cub at a little air strip,

which is now the Brookhaven Airport, and he'd fly me up at high noon, and I'd hang out the side to shoot," reported Walton. He found work at BNL satisfying because of its permanent value. "From the beginning, the product of the Lab's research often has been either photographs or papers, and often those papers contain photographs. I get a kick at seeing pictures I took many years ago just published in school textbooks," he said. (BB, April 10, 1987)

As a 2007 post script, The Bulletin called up Bob Walton at his home in East Patchogue. He remembers giving the 1987 interview and gets the same kick from seeing his historic pictures still being used.

Walton retired in 1989 — "Forty-two years is plenty!" he says. Since then he and his wife have traveled and enjoyed a more relaxed schedule. One bonus was having time to advise various organizations and libraries on exhibitions being set up that contain motion pictures taken during World War II, an area in which Walton was involved before joining BNL. One such exhibition is at the University of Southern California's Hammer Museum, where a picture shows Lieutenant John Swope and Walton, then a Navy combat photographer. So, after 60 years, Walton's photographic contributions are acknowledged from CA to NY, coast to coast!

— Liz Seubert  
*Part II of "Then & Now — Some Long-Term Employees" will appear next week.*

**Some of the 2006 Service Anniversary VIPs**

Photos by Joseph Rubino



## SBU Student Wins Dr. Mow Shiah Lin Scholarship

Yuan Sun, a graduate student in the Department of Materials Science & Engineering at Stony Brook University (SBU), has won the third annual Dr. Mow Shiah Lin Scholarship. BNL's Asian Pacific American Association initiated the scholarship, which consists of \$1,000 and a plaque, to honor the distinguished late BNL scientist for which it is named.

Mow Shiah Lin began his career at the Lab in 1975 as a post-doctoral fellow and advanced to co-lead a research team working with an environmental remediation company to use selected bacteria to convert toxic oil wastes, such as used motor oils, into useful products. In 2001, Lin shared the R&D 100 Award, given by *R&D Magazine* to the top 100 technological achievements of the year, for a technology to recover silica from geothermal brine. Lin died suddenly in 2003, and his coworkers, friends and family contributed funds to establish the scholarship.

In honor of Lin's contributions, the scholarship is



Roger Stoutenburgh 00201007

Joining Dr. Mow Shiah Lin Scholarship winner Yuan Sun (front, third from left) are: (front, from left) Susan Wong, co-coordinator, Asian Pacific American Association (APAA); Beth Lin, APAA co-coordinator and widow of Mow Shiah Lin; Samantha Lin Alvarado, daughter of Beth and the late Mow Shiah Lin; (back row, from left) Thomas Butcher, Scholarship Selection Committee Chair; and Benny Hooda, APAA board member.

granted annually to an Asian immigrant with a student visa who is matriculating toward a graduate degree at an accredited institution of higher education in environmental science, biology, or chemistry, in remembrance of the manner in which Lin began his career.

"I am greatly honored to receive this scholarship," Sun said. "I admire Dr. Lin's achievements, and I'm inspired by them. In my own career, I hope to achieve advances in nanotechnology that are beneficial for human beings and the environment."

Yuan Sun earned a B.S. in chemistry and an M.S. in macromolecular science from Fudan University, Shanghai, in 1998 and 2001, consecutively. She earned another M.S. in materials science and engineering from SBU in 2005, and she expects to earn her Ph.D. in that field in December 2007.

Sun's current research focuses on the synthesis of metallic nanomaterials and their applications in hydrogen storage and fuel cells. She holds a patent from China for a method to prepare highly oil-absorbent resin, and she has filed for a U.S. patent for a method to synthesize platinum nanoparticles with applications in hydrogen storage and cancer treatment.

After receiving her Ph.D., Sun hopes to find a research position in nanotechnology in which she can design new nanomaterials for efficient hydrogen storage so that hydrogen can be used as an alternative, clean source of energy for vehicles and other applications.

— Diane Greenberg

### Ben-Zvi Wins Free Electron Laser Prize (cont'd)

output of light. Both aspects of Ben-Zvi's research were done in collaboration with numerous national laboratories and universities.

"I am proud to receive this award, the highest honor in the free electron laser community," Ben-Zvi said. "Research on free electron lasers and many types of advanced accelerators is on-

going at Brookhaven Lab, where two of my colleagues - Vladimir Litvinenko and Li Hua Yu — have also been honored with the FEL Prize within the last four years." — Diane Greenberg

For more details on Ilan Ben-Zvi's honors and previous experience, see [www.bnl.gov/bnlweb/pubaf/pr/PR\\_display.asp?prID=07-98](http://www.bnl.gov/bnlweb/pubaf/pr/PR_display.asp?prID=07-98).

### BNL Speakers at Energy L.I. 2007 Conference, Farmingdale State College, 10/25, 26

Several BNL scientists will be among the speakers and participants at a two-day "Energy Long Island 2007 Conference," which will be held on Thursday and Friday, October 25 and 26, at Farmingdale State College (FSC), organized by FSC and Stony Brook University's Advanced Energy Technology Research Center. The conference, to be located at FSC's Roosevelt Hall, will focus on renewable energy. On Thursday, following the 9:15 a.m. keynote speech on "Energy Research: Forefront and Challenges," by Mildred Dresselhaus, Massachusetts Institute of Technology, BNL's Doon Gibbs will talk at 10:15 a.m. on "Energy Initiatives at BNL." On Friday, the 9 a.m. keynote speech on "Biology and Energy," will be given by BNL's Fritz Henn. Other BNL participants will include William Horak, Lev Neymotin, and Devinder Mahajan, BNL/SBU.

For more information, see <http://info.lu.farmingdale.edu/depts/met/solar/Energy-longisland-2007-draft1.pdf>.

### TIAA-CREF One-on-One Retirement Counseling

A TIAA-CREF consultant will visit BNL on Thursday and Friday, October 25 and 26, and Wednesday, October 31, to answer employees' questions about financial matters. The consultant will help you: understand the importance of protecting assets against inflation, find the right allocation mix for you, and more. For an appointment, call Suzanne Leone, (866) 842-2053, Ext. 4601.

### October: BNL's Healthfest Month

Healthfest, BNL's annual month of health, fitness and safety celebrations, is well under way this October. All the Lab community is encouraged to take responsibility for personal health, fitness and safety, by taking part in fitness events, safety demonstrations, raffles, and the ever-popular health, safety and fitness fair.

Healthfest is sponsored by Brookhaven Science Associates, and co-chaired by Denise Dimeglio and Michael Thorn through the Human Resources & Occupational Medicine Division. Register for bike, run, and swim events at <http://intranet.bnl.gov/healthfest/> or call Thorn, Ext. 8612.

### Remaining Healthfest Events

- Friday, 10/12, noon-1 p.m. Mountain Bike Ride, Gazebo by the Ball Field
- Friday, 10/19, noon-1 p.m. 5-kilometer Fitness Run (rain or shine), Biology, Bldg. 463. Run counts as first half of the biathlon
- Monday, 10/22, Noon-1 p.m. Fitness Open House. Tour gym and pool in Bldg. 478
- Tuesday, 10/23, 11 a.m.-2 p.m. Health, Fitness & Safety Fair in Berkner Hall. Displays, info,

- screenings for cholesterol, glucose, height, weight and blood pressure; drinking water taste test, home-water sample testing; try out and order personal protective equipment and play the ISM "Wheel of Fortune" game
- Wednesday, 10/24, 11 a.m.-1:30 p.m. 400-Yard Swim, Bldg. 478 Pool, for all 18 and older
- Friday, 10/26, 11 a.m.-1 p.m. 800-yd swim, (timed) for those 18 and older. Swim counts as second half of the biathlon.

### Coming Up: Interesting Talks at BNL

All are welcome to these free lectures, open to the public. Visitors to the Lab of 16 and over must carry a photo ID.

#### Wednesday, 10/24: 428th Brookhaven Lecture

4 p.m. Berkner Hall. Ken Evans Lutterodt of the National Synchrotron Light Source Department will talk on "Breaking the Barrier Toward Nanometer X-ray Resolution."

#### Tuesday, 10/30: Family-Friendly Policies

4 p.m. Hamilton Seminar Room, Bldg. 555. Mary Ann Mason, Professor of Social Welfare and Law, University of California, Berkeley, will talk on "Do Babies Matter? The Effect of Family Formation on Men and Women in Science."

#### Wednesday, 10/31: 429th Brookhaven Lecture

4 p.m. Berkner Hall. BNL Historian Robert Crease of Stony Brook University will talk on "How Big Science Came to Long Island: The Birth of Brookhaven Lab."

#### Wednesday, 11/14: Diversity in the Workplace

Noon. Berkner Hall. Donna Nelson, Associate Professor of Chemistry at the University of Oklahoma, will talk on "Diversity in Science and Engineering Faculty at Research Universities: Are We Preparing for the Great Crew Change?"

#### Thursday, 11/15: Senior Citizens' Task Force

12:10 p.m. Hamilton Seminar Room, Bldg. 555. Sponsored by the Brookhaven Retired Employees Association, Suffolk County Legislator Steven Stern, Chair of the Veterans & Senior Committee, will talk on the "Suffolk County-Wide Senior Citizen Task Force."

### Fidelity Counseling, 10/24

A Fidelity Investment representative will be at the Lab on Wednesday, October 24, to hold sessions with individual employees interested in learning more about their retirement-savings and investment options. Schedule one of the 30-minute appointments by calling (800) 642-7131.

### Arrivals & Departures

— Arrivals —

Chaofeng Mi ..... C-AD  
Joshua Rowland\* ..... Plant Eng.  
Christian Sturm ..... Physics

— Departures —

Laurie Pearl ..... ITD  
\*Joshua Rowland joined BNL on September 5. The Bulletin regrets having inadvertently omitted this name from an earlier Arrivals.

### BNL Music Club Sponsors Blue Grass Concert, 10/20

#### Featuring Buddy Merriam, Guest Dee Harris

A "Grand Ole Opry" concert featuring Buddy Merriam and Back Roads, with special guest Dee Harris, is scheduled on Saturday, October 20, at 8 p.m. in Berkner Hall. Sponsored by the BNL Music Club, the event is open to the public. Visitors to the Lab age 16 and over must bring a photo ID.

Buddy Merriam and Back Roads is an all-acoustic bluegrass-style band playing traditional favorites and original tunes on mandolin, banjo and guitar. They have performed on Country Music TV and at many Long Island venues, the Grand Ole Opry, Nashville, and the kick-off for the New York City Marathon, and appeared to rave reviews abroad. Dee Harris is a self-taught blues guitarist, songwriter, and vocalist who plays a mixture of Appalachian, Celtic, and classical Indian music.

Tickets are \$15 each if purchased in advance at the BERA Store in Berkner Hall, or \$20 at the door on the night of the show.

### Sign Up for BERA Trips, Events

You can go to a Broadway matinee show, like *Legally Blond*, (11/3, \$76); or the NY Islanders, (10/24, \$56), or shopping at Reading Outlets in PA (11/10, \$10) — all with BERA. Prices include transportation; pay at the BERA Store, Berkner Hall. More information is at the Store and [www.bnl.gov/bera/recreation/events.asp](http://www.bnl.gov/bera/recreation/events.asp).

## CALENDAR

### — THIS WEEKEND —

#### Friday, 10/12

##### COSTCO Membership Drive

10 a.m.-2 p.m. Berkner Hall lobby. COSTCO representatives in partnership with American Express. New Goldstar members who apply for and are approved by American Express will receive a \$25 credit and a \$10 cash card.

##### \*Healthfest Mountain Bike Ride

Noon-1 p.m. Gazebo near ball field. Bring your own bike & helmet, ride 8 miles or 5 miles. See below left to register.

### — WEEK OF 10/15 —

#### Friday, 10/19

##### \*BNL 60: Symposium, Reception

9 a.m.-5 p.m. Berkner Hall. Day-long symposium celebrating BNL science, followed by a reception. All are welcome. See notice, p 1.

##### \*Healthfest 5-km Fitness Run

Noon-1 p.m. Biology Dept. Bldg. 463 start, rain or shine. Run of 5 kilometers counts as first half of biathlon. See below left to register.

#### Saturday, 10/20

##### \*Blue Grass Concert

8 p.m. Berkner Hall. Buddy Merriam & Back Roads, with guest Dee Harris. A BNL Music Club event. Tickets are \$15 in advance. See below, left.

### — WEEK OF 10/22 —

#### Monday, 10/22

##### \*Healthfest Fitness Open House

Noon-1 p.m. Gym. Tour facility.

#### Tuesday, 10/23

##### \*Health, Fitness, Safety Fair

11 a.m.-2 p.m. Berkner Hall. See information at left.

#### Wednesday, 10/24

##### Verizon Wireless Demo

10:30 a.m.-2 p.m. Berkner Hall lobby. Representatives from Verizon Wireless will discuss the company's services. Contact Mavi Baig, 917-881-2748.

##### \*Healthfest 400-yard Swim

11:30 a.m.-1:30 p.m. Pool. For all 18 and older. See notice at left to register.

##### 428th Brookhaven Lecture

4 p.m. Berkner Hall. Ken Evans Lutterodt of the National Synchrotron Light Source will talk on "Breaking the Barrier Toward Nanometer X-ray Resolution." All are welcome to this free talk, open to the public. Visitors to the Lab must carry a photo ID.

#### Friday, 10/26

##### \*Healthfest 800-yard Swim

11:30 a.m.-1:30 p.m. Pool. Timed 800-yd. swim for all 18 and older. Swim counts as second half of biathlon. See notice at left to register.

### WEEK OF 11/29

#### Monday, 11/29

##### IBEW Meeting

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

#### Tuesday, 11/30

##### \*Talk on Family-Friendly Policies

4 p.m. Hamilton Seminar Room, Bldg. 555. See above, left.

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](mailto:bulletin@bnl.gov). Write "Bulletin Calendar" in the subject line.

