Bulletin



Vol. 61 - No. 35 October 12, 2007

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 lightinduced 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)

that the boards

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 5 sheets is then 를 revealed and stripped away. ಹ 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, 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

are fitted with electronic components such as resistors, semiconductors, and integrated circuits that are used to direct the flow of current on the board. The boards are also given connections between silicon detectors, electronic boards, and other tiny components in a process called bondis completed with what looks like a very precise sewing machine. Its "thread" is in the form of wires just 25 microns thick, about half the thickness of a strand of human hair.

Now, the board is complete. It will

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:

	of discovery. The agenda follows:
9-9:15 a.m	BNL reflections Sam Aronson, BNL Director
	Accelerator Design and Instrumentation Robert Palmer, Senior Physicist, BNL Veljko Radeka, Division Head, Instrumentation Division, BNL
10:15-10:45 a.m	Break
	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
	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
	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
	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

Emmy Award for Addiction HBO series

Energy and Professor of Chemistry,

. All-employee and guest reception

Massachusetts Institute of Technology

Alandmark 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

The Bulletin October 12, 2007

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 for schedule. Jen Lynch, Ext. 4894

Mondays: BNL Social & Cultural Club Noon-1 p.m., Brookhaven Center, South

oom, free beginners dance lessons. Rudy Alforque, Ext. 4733, 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,

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@

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

Tues. & Thurs.: Jazzercise

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

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, varns, needles available. Su Yen Chae, Ext. 1051, 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/

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

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

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 CIG-NA'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:

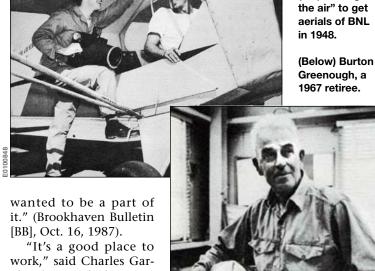
"When I retire I'll stay up and watch the Late Late Show, and sleep the morning through;

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

Others who, like Greenburgh, 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



gliardo, 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 interview 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

(left) "taking

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

















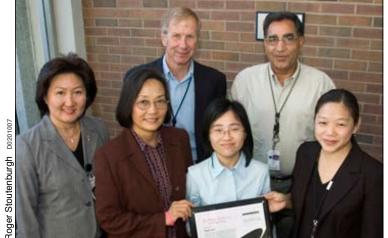
The Bulletin October 12, 2007

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 postdoctoral 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 in which Lin began his career.



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.

ronment."

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

"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 envi-

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 ongoing 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 — 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.

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 Fri- hold sessions with individual day, October 25 and 26, and Wednesday, October 31, to answer employees interested in learnemployees' questions about financial matters. The consultant will ing more about their retirehelp you: understand the importance of protecting assets against ment-savings and investment inflation, find the right allocation mix for you, and more. For an options. Schedule one of the 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 cochaired 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 CitizenTask Force."

Fidelity Counseling, 10/24

A Fidelity Investment representative will be at the Lab on Wednesday, October 24, to 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.....

*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

"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 bluegrassstyle 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 matineé 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.

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. Repesentatives 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 To-ward Nanometer X-ray Resolu-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. Write "Bulletin Calendar" in the subject line.

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/.

LABORATORY RECRUITMENT - Opportunities for Laboratory Employees

SR. ADMINISTRATIVE SECRETARY (A-3. (reposting) - Requires formal secretarial training or equivalent, plus five years' experience in a secretarial or office administrative role. Must have demonstrated proficiency in Microsoft Office products including Word, Excel, and Outlook; familiarity with MS Access desired. Must have strong communication, organizational and problem solving skills, ability to handle multiple projects, prioritize workload, and handle non-routine office matters. Must have the ability to work independently, and maintain confidential administrative records and reports. Complete knowledge of the PeopleSoft Travel System, domestic and foreign, is important, as is knowledge of the BNL Web Requisition System. The ideal candidate will be detail oriented, with excellent writing and editing skills. Experience in arranging conferences and meetings, travel, appointments, services, and information gathering is preferred. Will be assigned to Project Support Division at the NSLS-II. Send resume to nsls2jobs@bnl. gov referring to Position No. DL 4756.

ADMINISTRATIVE SERVICES ASSISTANT (A-2) - Requires a high school diploma and 4 years of related Laboratory experience; knowledge of MS Office programs (MS Word and Outlook) and familiarity with PeopleSoft. Excellent organizational skills and oral and written communication skills are essential. Requires the ability to multi-task, utilizing good judgment and discretion. Responsible for assisting Physics Manager of ES&H and Training to implement Department safety and training objectives. Will have frequent contact with other Laboratory departments to exchange information. Duties include scheduling safety meetings, maintaining training information, entering corrective actions into ATS system, editing safety web page and communicating training requirements to Physics employees and guests. Will also interface with Department Chair's office to perform administrative duties as required (including processing of domestic and foreign travel). Physics Department. Send resume to dianah@bnl.gov, referring to Position No. DH 4322.

OPFN RECRUITMENT - Opportunities for Lab employees and outside candidates. PROJECT ENGINEER I (P-9, reposting)-Requires a BS in electrical engineering

and a minimum of 10 - 15 years' experience with a successful track record in the engineering design and construction of power distribution and electrical cable routing systems. Requires a strong knowledge of the National Electrical Code and OSHA regulation as it pertains to large electrical systems. Experience designing electrical systems used in large accelerator facilities is highly desirable. Experience resolving complex problems such as conflicting design requirements, unsuitability of conventional materials and managing difficult coordination requirements is a must. Excellent communication skills and the ability to develop detailed technical designs and procedures are required. Strong interpersonal skills with the ability to interact with a diverse group of scientist and technical staff is required. Experience with project management tools such as MS Project in developing long term project schedules that reflect tasks, durations, resource and cost scope is required. Reporting to the Head of Electrical Engineering, will be responsible for the planning, budgeting, scheduling and coordination of various engineering projects for NSLS-II. Will supervise designers, technicians, electricians, and others who assist in project specific assignments for power distribution and electrical cable routing systems. NSLS-II. Send resume to nsls2jobs@bnl.gov referring to Position No. TB 4609.

Motor Vehicles & Supplies

04 SUZUKI SAVAGE - 652cc, 4 strke, sgle cyl, seat 27.6"h, 352lbs. avg. 55 mpgs. 50 mi. \$3,300/neg. Melanie, Ext. 5810.

02 HONDA ACCORD EXL COUPE - Silver, 6cyl, loaded, excel. cond., 6cd player, extras. 48K mi. \$12,000/neg. 929-4978.

00 FORD EXPEDITION - 5.4L, awd/4wd, tow pkg., rear a/c, Ithr w/3rd row, cd chgr, rem. start. 134K mi. \$7,750/neg. Ext. 7277.

98 FORD EXPEDITION XLT - 4wd, 5.4 ltr. 3rd seat, leather, 6cd, loaded, immac, KBB val. \$8,100. 128K mi. \$6,100. Ext. 7294.

97 DODGE GRD CARAVAN SE - 3.3L 6 cyl., sts 7, 2 blt-in rr chld seats, am/fm, a/c, crse, 2 side drs, 170K mi. \$1,400/neg. 929-6189. 97 PONTIAC GRD AM - MP3 CD Player

w/great sound, drives well, quietly. 170K mi. \$1,500/neg. Ext. 5245 or 974-1432.

97 SAAB 900SE - abs, a/t, s/roof, leather heated seats, air bags, 4 cyl turbo, htchbck. 80K mi. \$4,900/neg. Ext. 2604.

96 CHEV CORVETTE - white, remy roof, a/t, grt brks & tires, mags. fast, runs well, FCTD. 87K mi. \$1,450/neg. 878-1178.

94 ISUZU TROOPER - 6cvl. new shocks/ batt./ starter, Aug. '07 insp., tires, 4wd, roof rack, LS delux 117K mi. \$2,200. Ext. 4553.

93 FORD MUSTANG GT - 5.0/auto, a/c, sunroof, new tires, stock, always gar, excel cond. 29K mi. \$7,600. 428-4149.

89 JEEP PIONEER - red, 6 cyl, 4 dr, 4wd, new tires, orig. owner, well maint'd. 200K mi. Vera, Ext. 5843 or 926-5963.

89 VOLVO 740 WAGON - 4cvl., s/roof, 3rd seat, no rust, all records, new rad./exh. & tne-up. 194K mi. \$895. 741-9169.

89 GMC SIERRA 1500 PICKUP - 8 cyl, a/c 4wd cap on bed, gd. tires, rnd nose stylehood. 24K mi. \$1,800/neg. 369-9720.

84 CHEVY MONTE CARLO SS - all orig/ stock/paint, 2 owner car, always maint'd, grt cond., easy restor. \$2,500. Rich, Ext. 7294.

73 CHEVY SILVERADO 454 - restored. 35K mi. \$6,500/neg. 744-6910.

Boats & Marine Supplies

10' GRUMAN JON - aluminum boat. \$200, 689-9234.

96 SEASWIRL 201 LE CUDDY CABIN - 112 Johnson V4 Outbrd, EZ ldr galv. trlr, CG equip, in water to demo, \$8,400 neg., 495-7273.

Furnishings & Appliances

Air Conditioner - 10.000 Btu, window or wall install., w/rem, like new. \$100. Susan, Ext. 7235 or 399-7997.

ARMOIRE - Ikea, Askedal 3 part, 82"x69", holds much, drawers and hanging rods,

excel. cond., b/o. 801-2666. BAR STOOLS - 2, wood, like new, \$25.

803-0506. COMFORTER SET - king, reversible, w/dust ruffle & shams, pic avail., Cape Code like print, \$25. 399-7997.

COMPUTER DESK, BKCASES - Corner desk, 5 1/2'. 2 mtching bkcases. Lt wood, gray top. Pic. mb@bnl.gov. Mary, Ext. 3670. CORNER DESK & PRINTER STAND - call

for pic, dimensions. \$50/both. Susan, Ext. 7235 or 399-7997. COUCHES - 2, nrly new, both 87"x37", white

w/remvble slip cvrs, \$500/ea. Ext. 7084. CRIB - Babi Italia, brown, incl. Colgate Presidential mattress, 1 yr. old, excel. cond., \$100. Peter, Ext. 5784.

DINING ROOM SET - Danish teak extendable table, seats 6-12, 6 chairs, buffet, china cabinet, all mint cond. 929-5922.

DINING TABLE - solid oak w/2 leaves, 4 upholstered chairs, protective pads, \$500, 909-1498. ENTERTAINMENT CNTR - armoire, cherry

mahog. w/drawers, beveled glass drs, 58"w x 59"h X 21"d, pic avail. \$250. Ext. 7235.

ENTERTAINMENT CTR - 4 pc, glass shelves, \$400; 2 microfiber \$200/ea.; trundle bed \$40. 286-8523.

KITCHEN SET - all oak wood, table for 6, chairs, china cabinet, mint cond. 929-5922. PIANO - Baldwin, Baby Grand w/match-

ing bench, just tuned to concert pitch, walnut, 4'8", excel. cond. Ext. 4567 RANGE HOOD - new in box, Air King 30"

white, \$25. Chris, Ext. 2326. RUG - wool, area, 8x5, pottery barn sunita, green pattern, \$50, 803-0506.

SOFA - table/desk & chair, cherry, Qu. Anne legs, can send pic, \$60/obo. 399-7997.

SOFA & LOVE SEAT - gd. cond. \$100/ both. Must pick up. 981-2056.

TABLE - Oak, oval, cntr pedestl w/6 carved chrs, 2 lves, \$375, pics avail. 878-9020.

TABLE & CHAIRS - 1 Oak Farmhouse table w/6 matching chairs in gd cond., ask/\$150.00/obo. Frank/ Annabelle, 363-

TABLE LAMPS - Chinese style, 2, w/beige matching shades, brass trim, gd. cond., \$60/pair, have pix. Nancy, Ext. 4567.

WASHER - Kenmore 70 Series, heavy duty, super capacity, like new. approx. 7yrs old, \$100. Kim, Ext. 7465.

Audio, Video & Computers

DESKTOP PC - HP A1642X Intel Core2Duo, 1.8GHz, 1GB Ram, 250GB HD, dvd-R/RW, 17" flatpanel, WinXP, spkrs, KB & M., \$500, 516-474-6300.

PRINTER - color, Canon BJC-85, w/software and cable portable, excel. cond., \$200. Ext. 3217.

SCANNER - EpsonPerfection3170, \$70; Printer-HP Deskjet 840C, \$30; Compac 13" mon w/mse/keybrd, \$20. Ext. 7647. SUBWOOFER - pir of alantic tech pbm 72 subs 10", 150 watt self pwr'd, \$225/pair

only, excel. cond. Edward, Ext. 7160.

WIRELESS ROUTER - Netgear WGT624 802.11g 108Mbps, wireless firewall router, refurbished, never used, sealed in box, \$20. Yugang, Ext. 3485.

Sports, Hobbies & Pets

DRUM KIT - DDRUM Dominion Darian 5 pc Maple kit. in blue, 6 Sabian cymbals, rack, extras. mint, \$2000. Jay, 988-0586. HOCKEY SKATES - size 5, \$20; 1-pc. wetsuit, Ocean Ray, full 3mm, gd. for 11-13 yr. old boy, \$30 Ext. 3222.

WATER TANK - 10 gal, portable, gray, tote-a-long holding tank, \$25. Ext. 2326. WINDSURFING SAIL - north sails, model Volcano 2002, 6.4 m2, no cambers, gd. shape, \$170/neg. Ext. 3319.

Tools, House & Garden

AIR COMPRESSOR - 2 hpwr. compressor, runs well, long hose, \$75. 286-8523. GENERATOR - 4000 W output, Two 120 & Two 210 volt outlets. Easy start eng. Excel. \$300 firm. 772-4751.

LAWN MOWER & SPREADER - Ig. rear wheel mulching mower & broadcast spreader, \$60/ both, Sue, Ext. 7235.

PATIO FURNITURE - green metal frame chairs (5)w/cushions, matching unbrella, pick up all for \$60. Peter, Ext. 2460.

Miscellaneous

CELLO - Cervini, full size, solid travelite case w/wheels, bow. \$400 firm. John, Ext. 3222.

KEY LOCKER - For 30 keys, ask/\$10. Peter, Ext. 5551.

MIKASA CHINA - beautiful! White w/platnium edging, 11 sets, \$35/set, pic avail. Mary, Ext. 3670.

SPARK ART EASEL - Fisher Price, assembled, like new, perfect for Christmas. incl. dinosaurs accessory kit, pd/\$80, ask/\$40/obo. Angela, Ext. 7397.

TICKETS - 2, for Experience Hendrix-Beacon Theater, Mon., 10/22 @ 8 pm., Orch. seats, \$175. Toni, Ext. 5257.

TRUMPET - Jean Baptiste, B Flat w/ straight mute. \$350. John, Ext. 3222 or 929-4101.

Yard & Garage Sales

SOUND BEACH - 10/13, 27 Floyd Bennett Dr. off Roanoke or Halesite off No Country Rd, furn,, baby items, dishes & more. Ext. 7647.

KITTENS - 2 males, 5 mo., 1 blk., 1 striped, vet checked and all shots, house trained. Barbara, 928-8112.

PRINTER TONERS - 2, for HP 4300 Laserjet, must be used for BNL/DOE printer. Ext. 2524.

WINDOW AC - White-Westinghouse, model AC067R7A, 5600 BTU/HR, EER 10.0. John, Ext. 2667.

Memorial Gathering

CELEBRATION OF LIFE - in memory of BNL retirees Joseph & Sylvia Murray, tomorrow, Sat. 10/13, at 11 a.m., Tavern on the Main, 361 Montauk Hwy. Ctr. Moriches. Please come and share your memories. Sylvia, who worked in purchasing, died 7/05; Joe worked in Heavy Equipment/rigger, died 9/07. Call 631-772-6110.

Wanted

HOUSE OR APARTMENT - for lab professional, 2 or more bdrms., fully furn., must be clean and reasonable month-tomonth. Ext. 2431 or 865-924-9172.

LIFE GUARD - certified, for P/T work must pass background check, be a US Citizen. 4:15-8:30pm and/or Sat. 10-2pm. Ext. 5090 or 457-3231.

TICKETS - 2 concert tickets for Natalie MacMaster at Staller Center for the Arts on Saturday, Oct. 13th. Ext. 2524.

VOLLEYBALL PLAYERS - females, any one interested in playing in the mixed league for beginners, play Wed. nights at 5:30 or 7:00. Richard, Ext. 3355.

For Rent

ADIRONDAKS - 3 bdrm house, all amenities, adjacent family restaurant, NW of Albany, orjtempel@optonline.net, \$400/ wkends or \$900/wk. Janet, 869-5618.

LAKE RONKONKOMA - 3 yrs. young, 1 bdrm., I/r, eik, full size appl., f/bath, pvt. ent., 1 car drway, no smkg/pets ref/sec. \$975/mo. Susan, Ext. 4410 or 467-1787.

LENOX, MA - 2 bdrm. timeshare unit avail. for the wk. of Nov. 17th-24th. \$800/ wk. Tom, 909-1498.

MANOR PARK - 1 bdrm. apt., new rugs and bath, 7 min. to lab, incl. all except phone and cable. \$900/mo. Cheryl, 772-2474.

MASTIC - new apt., 1 bdrm, kit/lr combo. full bath, priv. ent., quiet area, own thermostat, cable/util. incl., near LIRR, no smkg/pets, \$750/mo. 335-4907.

MASTIC - bsmt apt, 2br, 1 bath w/shower-no tub, kit/Ir combo, thermostat, sep. entr., wdws in all rms, util, incl. avail, 11/1 \$1,200/mo./neg. Doreen, 766-6717. MASTIC BEACH - 4 bdrm, ranch, quiet

st., near water, full bath, 100 x 100 property, sec., \$1,500/mo. \$1,500/mo. Ext. 7658 or 495-2596.

MT. SINAI - 1 bdrm., kit/liv comb, full bath, Ig. rms., sep. ent., main flr. w/own outside area, very sunny & bright, no smkg/pets, 1 person pref. \$1,000/mo. Stacy, 331-2002.

ROCKY POINT - 1 bdrm. apt. kit., I/r, bath, pvt. drway/ent., no smkg/pets, 1 mo. sec., all util. incl. except electric \$795/mo. Ron or Kim, 821-3287.

SHIRLEY - 1rm, microwave kitnet, furn, full bath, sep ent, tv, elect, heat, cable, wireless int, all incl., 5 min to stores, 15 to lab, no smkg/ pets. \$600/mo. Ext. 8321.

SHIRLEY - total renovated 3 bdrm house. 2 bth, new kit., Ir, furn/dr, den, deck, new carpet, close to shopping, 7 min to Lab, \$1750 mo. \$1,750/mo. 335-4907.

SHOREHAM - share a house w/ prof., partial furn. bdrms, 7 mi. from BNL, int./tv incl., no smkg/pets. \$600/mo./neg. 413-1966.

SHOREHAM - 3 bdrm. house, updated kit., new bath, d/r, l/r, w/d, a/c, hugh yd., no smkg/pets, 5 min. from BNL, swrsd, some util. incl. \$1,650/mo., 807-1939.

WADING RIVER - newly renovated, 1bdrm. apt, full kit., bath, l/r, + elec. & heat. \$1,100/mo. Rob, 433-6272.

YAPHANK-MIDDLE ISLAND - newly decorated and fully furn., studio apt., priv. home, sep. ent., for 1 person, high spd., all incl. \$850/mo. Irene, 924-3049.

ADIRONDAKS - 3 bdrm house, weeks or wkends, all amenities, nr. family restaurant, NW of Albany, \$900/wk, \$400/wkends, 631-869-5618 or jtempel@optonline.net

For Sale

BELLPORT - 4-BR. ranch, 2 bth, I/r w/dble opening fp to den, d/r, eik, oak flrs, screened deck on priv. yard, laundry rm, fin. bsmt: w/4th BR, bar, full bth, 2 rms; gar., 2 sheds, sprinklers, gt. cond. \$425,000; 949-7797.

BLUE POINT, NY - Colonial, 5 bdrm. or potential Mother/Daughter, 2 bath, I/r, d/ r. kit., bsmt./crawl space, porch, 1.5 car gar., fen. yd., low taxes. \$429,000/neg. John, Ext. 5025.

BOYNTON, FL - Condo, 55+, pre-foreclosure, 1800 sf, 2/2 + den, all appli., near shops, theaters, pool, tennis clubhouse, + more. \$189,900 561-495-0187.

EAST MORICHES, NY - Ranch, 3 bdrm, 2.5 bath, kit, l/r, f/p, finished bsmt, sky lights, appliances, covered porch, patio, 1/2 acre, well landscaped, cul-de-sac, low taxes. \$415,000/neg. 882-0519.

FARMINGVILLE, NY - custom ranch, 2500 sf, 3 br, 2 bth, eik, l/r, d/r, den, wood flrs., 2.5 car gar., igs, igp, many upgrades, dead end st. \$499,900/neg. Carol, 516-906-3348.

NAPLES, FL - New Villa, 3 br, 2 bath, beautiful lake view, 2 car gar., lowest priced Villa, MLS#207018796. \$259,900 455-6200. ROCKY POINT, NY - co-cp upper level, 1

move in cond, mo. maint. \$480 incl. heat/ water/taxes. \$110,000 516-527-4902. SHIRLEY, NY - 5 bdrm, 2 kit., 2- .5 bath, 2 car gar., w/d, full bsmt, scrn rm, fen. yd.

\$305,000/neg. Joseph, Ext. 2982 or 745-

bdrm, Ir/dr combo, balcony, w/ carpet, cac

2495. SOUTH ROYALTON, VT - 2 homes w/3.5 acres, furn. + extras, priv., 1st home 2 bdrm, 1 bath, finbsmt, gar., w/bs, w/d; 2nd home 1 bdrm, 1 bath, bsmt, washer, wbs, pics avail \$330,000/neg. Jeanne, Ext. 7125 or 466-8637.

WADING RIVER, NY - 4 br Victorian, 2.5 bath, 1/r, den w/fp, gormet kit. w/granite, oak firs., wood drs/mldgs., a/c, 1 acre w/free form pool w/pvrs., many upgrds. \$649,000 807-1939.

On-Site Services

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

ON-SITE SERVICE STATION - gas, all vehicle services: NYS inspections, new batteries, tires, timing belts, etc. Done while you are at work. Ext. 4034.

In Appreciation

I would like to thank all of my friends at BNL who expressed their condolences for your kindness during a very difficult - Michel Perrier

Defensive Driving Course In Two Parts, 10/15 & 18

The six-hour Defensive Driving (Point & Insurance Reduction) course will be held in two parts on Monday and Thursday nights: October 15 and 18 in the Brookhaven Center South Room, 6 p.m.-9:15 p.m. The course, at \$38/person, is open to BNL, BSA, and DOE employees, facility-users, and their families. Preregistration is required. To register, call Ed Sierra, 821-1013, and leave a message. Include your phone number.

Wanted: BNL Art and Crafts for Fall Show



ers - your most beautiful work is needed for the BNL Art Society's upcoming Art and Crafts Exhibit to be held at Berkner Hall from Monday to Wednesday, November 19-21, 11:45 a.m. -1:30 p.m. An evening reception with refreshments will also be held on Mon-

day, November 19, 5 - 7 p.m.

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Exhibits for the show must be brought to Room C, Berkner Hall, the afternoon of Friday, November 16., 2-4:30 p.m. To be included in the program, complete a form for each work entered and return it by Monday, November 12, to Bob Chrien, Bldg. 510A, or (better yet!) e-mail the information requested below to BNL employees, retirees, facility users, guests of chrien@bnl. gov. Late entries may be accepted, but BNL, and family members 15 years and older, may your name can only be on the program if your inforall contribute. More than one piece may be entered mation comes in on time, so please do not forget.

Entry Form for BNL Art, Craft Exhibit, November 19-21

Home Phone: ____

BNL Contact:

BNL Ext: Type of art/craft (painting, sculpture, photo, pottery, quilting, etc.):

Title of Work (if there is a title):

Description (medium, material, size, etc.):

Please return to Bob Chrien, Bldg. 510A, or send the same information to chrien@bnl.gov, both by 11/12.

Bulletin

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