

ALL-EMPLOYEE MEETING

Monday, 11/23
11 a.m., Berkner Hall*

*Live webcast on www.bnl.gov/video



Roger Stoulenburgh 03071108

Dave Allshouse: Labor Relations Manager at BNL

Dave Allshouse, formerly Director of Labor Relations at Merck & Co., Inc., has been named BNL's Labor Relations Manager, effective November 2.

In his new position as part of the Human Resources & Occupational Medicine Division, Allshouse is responsible for helping BNL develop a labor strategy, training supervisors in labor relations and related areas, and negotiating and administering union contracts. Three unions represent a total of more than 400 employees at BNL: the International Brotherhood of Electrical Workers, the Suffolk County Security Police Association, and the United Steelworkers.

"I am excited to be part of the important work of the Laboratory, and I look forward to developing collaborative and productive working relationships with the union leadership here," Allshouse said.

Allshouse earned a B.A. in General Arts and Sciences from Pennsylvania State University, a J.D. from the University of Pittsburgh School of Law, and an advanced labor law degree, LL.M., from the Georgetown University Law Center.

At the start of his career, Allshouse worked as a litigator for the Pennsylvania Attorney General's Office and as a labor and employment attorney in the Labor Section of Morgan Lewis and Bockius, a large law firm in Harrisburg, PA. He then joined Stroehmann Bakeries in Horsham, PA, a baking and distribution company with 50 locations and 5,000 employees, where he worked as Vice President, Human Resources and Law. From 1996 to 2003, Allshouse worked in labor relations and as labor counsel for Penske Truck Leasing in Reading, PA, a global transportation services company with 20,000 employees and 150 labor contracts. In 2003, he became Director of Labor and Employment for C&D Technologies, Inc., a company based in Blue Bell, PA, that manufactures electrical storage and power conversion products.

In 2006, Allshouse joined Merck & Co. in West Point, PA, as Director of Labor Relations, a position he held for three...

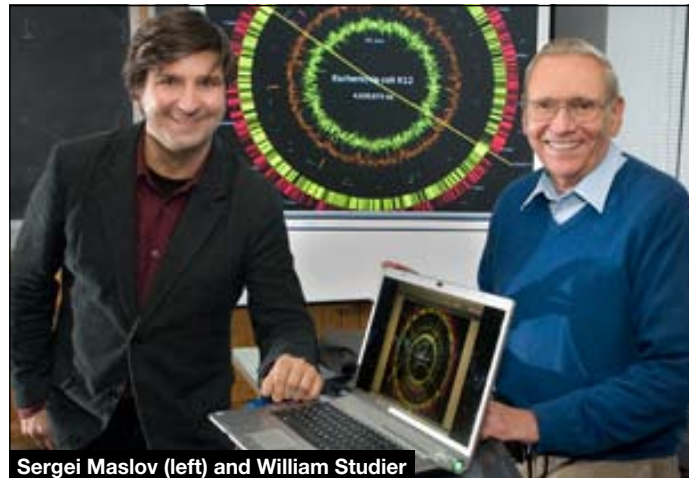
See *Allshouse* on pg. 2

Two *E. coli* Research Strains: Genomes Now Sequenced

Tracing the history, genetic makeup of workhorse laboratory bacteria

An international team of researchers from the United States, Korea, and France has sequenced and analyzed the genomes of two important laboratory strains of *E. coli* bacteria, one used to study evolution and the other to produce proteins for basic research or practical applications. The findings will help guide future research and will also open a window to a deeper understanding of classical research that is the foundation of our understanding of basic molecular biology and genetics.

The team, which includes BNL's William Studier and Sergei Maslov, published its results online on October 17, 2009, in three papers in the *Journal of Molecular Biology*. The work was supported by the 21C Frontier Microbial Genomics and Applications Center Program of the Korean Ministry of Education, Science & Technology; the Korea Research Institute of Bioscience & Biotechnology (KRIBB) Research Initiative Program; the *Consortium National de Recherche en Génomique*; the GTL Program of the Office of Biological and Environmental Sciences, and the Division of Materials Science within the DOE Office of Science; the National Science Foundation; the Defense Advanced Research Projects Agency; and internal



Sergei Maslov (left) and William Studier

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research funding from BNL.

E. coli has been associated with recent outbreaks of foodborne illnesses, but the two most important laboratory types, named K-12 and B, were isolated from benign *E. coli* that are normal inhabitants of the human intestine. Both have been indispensable tools for biomedical research and biotechnology.

K-12 was isolated in 1922 in Palo Alto, California. Its genome sequence — the series of nucleotide bases (labeled A, T, G, and C) that make up the source code for running the machinery of the cell — has been known since 1997. The early history of B, however, was unknown until the current collaboration combed through historical scientific papers and

personal recollections to trace it back to a strain at the *Institut Pasteur*, in Paris, in 1918. Adding to this historical reconstruction, the newly sequenced genomes of two different B strains allow the complete genomes of these laboratory workhorses to be compared for the first time.

"Although the B and K-12 strains came into the laboratory half a world apart, their genome sequences show that they are closely related," said Studier, of the Biology Department, who, with Maslov of the Physics Department, helped analyze the genome sequences.

The genomes of the two B strains were sequenced at KRIBB and at Genoscope, the...

See *Genomes* on pg. 2

Pushing the Envelope in Optics

Written by Ray Conley of National Synchrotron Light Source II for the Monday Memo of November 9.

NSLS-II staff members have been working closely with CVD Equipment Corporation, headquartered in Ronkonkoma, New York, to design and build a custom tool to provide x-ray focusing at the nanoscale. This device is key to reaching an ambitious goal during NSLS-II operations: x-ray nanofocusing that will enable researchers to explore what promises to be a whole new class of science.

The device, called a magnetron sputtering system, will deposit alternating layers of metal-silicide and silicon films to produce the multi-layer lenses needed for x-ray focusing at NSLS-II. The system is comprised of a 23-foot, ultra-high vacuum chamber containing nine magnetron sputtering guns and a high-precision, linear-motion platform which raster-scans across the magnetron guns to deposit the stack of multi-layers that is both laterally-graded and depth-graded, called a wedged multilayer Laue lens.

Before coming to BNL almost



(From left) Ray Conley, NSLS-II Optics lead, with engineers John Feraca, Larry Boas, and Jimmy Leskowicz of CVD Equipment Corporation.

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two years ago to lead optics research for the NSLS-II project, I designed a similar deposition system at the Advanced Photon Source (APS) at Argonne National Laboratory. There, my collaborators and I grew the largest number of layers in a stack — 5,167, currently a world record, where a lens was tested with the APS to produce a focus of sixteen nanometers. The new deposition system we are work-

ing on with CVD will allow us to grow as many as 62,000 layers in a stack.

With every successive layer, the focusing gets tighter. A stack with 1,000 layers will not focus as tightly as one with many thousands of layers. In essence, that's the key to focusing down to one nanometer.

Growing such thick layers is challenging. The layers can...

See *Optics* on pg. 2



Roger Stoulenburgh 01281108

Celebration, 12/4 For Satoshi Ozaki Recognizing his 80th Year And 50th Anniversary at BNL

All are invited to a celebration in Berkner Hall on Friday, December 4, to honor Satoshi Ozaki, Special Assistant to the Laboratory Director on Accelerator Projects, for his 80th year and 50th anniversary at BNL. Lab Director Sam Aronson will open the event with introductory remarks at 1 p.m. Invited speakers are: William Love, BNL; Hiroataka Sugawara, Japan Society for the Promotion of Science; Jim Yeck, University of Wisconsin; Mike Harrison, BNL; Nick Samios, BNL; Maury Tigner, Cornell University; and Ferdinand Willeke, BNL. The talks will be followed by a reception in Berkner Hall lobby.

BNLers Down Under Strong Showing Of Light Sources Staff At Melbourne Conference

More than 20 Light Sources (LS) Directorate BNLers attended the 10th international conference on Synchrotron Radiation Instrumentation (SRI) from September 27 to October 2, to learn about and present the latest developments in the field. The conference, hosted by the Australian Synchrotron and held in Melbourne, attracted about 680 participants from 28 countries.

The program included almost 150 oral presentations, including seven world-renowned plenary speakers, 26 invited speakers, and 115 symposia speakers selected from abstracts. Two poster sessions showcased 450 posters, and 500 of the participants toured the Australian Synchrotron.

A handful of LS staff served as chairs for parts of the program, including: NSLS-II physicist Andy Broadbent, who helped chair a segment on beamlines and optics; NSLS-II physicist Yong Cai, who co-chaired a session on inelastic scattering and magnetism; NSLS-II physicist Qun Shen, who helped lead two sessions on microscopy and micro/nanoprobes; and NSLS physicist Peter Siddons, who helped lead a session on detectors.

Among the invited speakers were Cai, who spoke about the development of ultra-high-resolution optics for inelastic x-ray scattering at NSLS-II, and Siddons, who discussed...

See *Melbourne Conf.* on pg. 2

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 may be found at www.bnl.gov/hospitality/calendar.asp.
- The Recreation Building #317 (Rec. Hall) is located in the apartment area.

— REGULARLY —

Weekdays: Free English for Speakers Of Other Languages Classes

Beginner, Intermed., Adv. classes, various times. All welcome. Learn English, make friends. See <http://www.bnl.gov/esol/schedule.asp> for schedule. Jen Lynch, Ext. 4894

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

Mondays & Thursdays: Kickboxing
\$5 per class. Noon-1 p.m. in the gym. Pay as you go. Ext. 2873.

Mon., Tues., Thurs., & Fri.: Tai Chi
Noon-1 p.m., B'haven Cntr N. Rm. Adam Rusek, Ext. 5830, rusek@bnl.gov

Tuesdays: Zumba
Tuesdays, 12:15-1:15 p.m. Gym. Registration is required. Ext. 2873.

Tuesdays: Knitting Class
2-4 p.m. Rec. Hall. All levels of skill. Ext. 5090 for information.

Tuesdays: Toastmasters
3 monthly meetings: 2nd Tuesday: Noon, Berkner, Rm. D. 1st & 3rd Tuesdays, 5:30 p.m., Bldg. 463, Rm 160. Guests, visitors welcome. <http://www.bnl.gov/bera/activities/toastmasters/>

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

Tuesdays & Thursdays: Jiu Jitsu
6:30-7:30 p.m. Tuesdays: Brookhaven Center, Thursdays: Gym. All levels, 6 yrs. to adult. Tom Baldwin, Ext. 4556.

Tuesday & Thursday: Aqua Aerobics
5:30-6:30 p.m., Pool. Registration is required. Ext. 2873

Wednesdays: On-Site Play Group
10 a.m.-noon. Apartment area playground. Infant/toddler drop-in event. Parents meet while children play. Ext. 2873.

Wednesdays: Ballroom Dance Class
Classes at 5:15, 6:15, and 7:15 p.m., based on experience. North Ballroom, B'haven Center. Donna Grabowski, Ext. 2720.

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

1st Wednesday of month: LabVIEW
1:30-3 p.m., Bldg. 515, 2nd fl. Seminar Rm. Free technical assistance from LabVIEW consultants. Ext. 5304, or Terry Stratoudakis, (347) 228-7379

Thursdays: BNL Cyclotrons Club
Noon-1 p.m., First Thurs. of month. Toni Hoffman, Ext. 5257

Thursdays: Reiki Healing Class
Noon-1 p.m., Call for location. Nicole Bernholz, Ext. 2027

Thursdays: Craft and Cooking Club
2 p.m. Rec Hall. Free. Ext. 2873.

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

Fridays: Family Swim Night
5-8 p.m. BNL Pool. \$5 per family. Ext. 2873.

Fridays: Family Gym Night
5-8 p.m. Family gym activities. Free. Ext. 2873.

See *Allshouse* on pg. 2

...years before joining BNL. At Merck, a pharmaceutical manufacturing and research company with over 60,000 employees, Allshouse managed all labor relations issues at a site with four labor contracts and 2,400 union employees. — Diane Greenberg

Melbourne Conf. from pg. 1

the R&D work taking place to implement advanced detectors at the NSLS.

Symposia speakers from the LS Directorate included: Larry Carr, Yong Chu, Oleg Chubar, Ray Conley, Ken Evans-Lutterodt, Jeff Keister, Cecilia Sanchez-Hanke, and Toshi Tanabe. — Kendra Snyder

BNL's United Way Campaign Well Under Way

Lab-Wide Fundraisers Planned — Please Participate

As the BNL United Way Campaign Chair for this year, with the help of Co-Chair Sarah Mahler, Carol Parnell, Assistant Laboratory Director for Environment, Safety, & Health, is leading the Lab's fund drive for the United Way of Long Island. The fund drive started on November 9 and is now well under way.

Details of fundraisers being organized by different groups at the Lab can be found at <http://intranet.bnl.gov/unitedway/fundRaising.asp>. They include:

- Friday, 11/20: Sandwich Day at the NSLS, noon-2 p.m.
- Monday, 11/30: Café Physique Physics Demonstration Show with live music, Physics Department, 3:30 p.m. Suggested ticket donation, \$5
- Wednesday & Thursday, 12/2 & 3: Holiday Auction, Yard, Book, and Jewelry Sale, Berkner Hall
- Friday, 12/4: Supervisor Dunk Tank, Firehouse, Bldg. 599, 11 a.m.-2 p.m.
- Tuesday, 12/8: PPM's Bagel & Coffee To Go, 8-10 a.m. at Bldg. 355
- Tuesday-Thursday, 12/15-



Participants at the kick-off breakfast for BNL's 2009 United Way Fund Drive included Campaign Chair Carol Parnell (second from left), Assistant Director for Environment, Safety & Health; Campaign Co-Chair Sarah

Mahler (center, back); Deputy Lab Director for Science & Technology Doon Gibbs (left), Deputy Lab Director for Operations Mike Bebon (fourth from left), and volunteer captains from departments and divisions.

- 17: Gift Wrapping at Berkner Hall lobby, 11 a.m.-2 p.m.
- Ongoing: Volunteer Work Program, see <http://intranet.bnl.gov/unitedway/Volunteer-Program.asp>

The United Way of Long Island supports 113 agencies and charitable foundations across the Island, including large agencies like the American Red Cross Nassau and Suffolk County and YMCA of Long Island, as well as small ones that do so much to help people in

dire need. Currently, more than 165,000 Long Islanders live below the federal poverty level and suffer from a lack of basic necessities such as shelter, food, clothing, and heat.

Says Parnell, "There are many in our Long Island community who have lost their jobs, are faced with uninsured medical bills and family crises, or are just getting by in this challenging economy. At some time in our lives, each of us will need or know someone who

will need assistance. That is what United Way provides, and our Lab is a major reason they are able to help others.

"Every year, BNL employees give generously to this very worthwhile organization. There are many ways to help: Volunteering your time, participating in the holiday auction and the fundraisers, and giving money using the pledge forms are all ways to get involved. We ask you to please join in this effort in whatever way you can."

Volunteers — You're So Needed

BNL volunteers can double the effect of their efforts by registering volunteer work with the BNL United Way Fund Drive Volunteer Program: BSA gives \$20 to the United Way fund for each hour spent in helping other worthy causes.

To contact Patti Bender, Volunteer Program coordinator, see <http://intranet.bnl.gov/unitedway/Volunteer-Program.asp>, pcb@bnl.gov or Ext. 3927.

This Week: Help Needed to Assemble Food Baskets

The Ministries — 3680 Route 112, (2nd floor), Coram (just south of Route 25, opposite Congressman Bishop's office): Provides shelter for runaway children and maintains an emergency food pantry. They have asked for donations of food and assistance with assembling and handing out food baskets to the families using their services during

Thanksgiving and Christmas.

- Thanksgiving baskets assembly: Nov. 16, 17, 18 & 19 (1-5 p.m.)
- Thanksgiving baskets distribution: Nov. 23, 24 (1-5 p.m.) Nov. 25 (1-2:30 p.m.)

Please call Vinny or Ann Moran-Smith at 736-4800 if you are willing to help this year. They are so appreciative of the support that they have received from BNLers in the past!

Next Week: Helping Hands & Turkeys Needed

The Long Island Council of Churches in Riverhead is hosting their annual pre-Thanksgiving dinner at the Riverhead Middle School, on Tuesday, November 24, for seniors, migrant workers, and others in need. They need helpers from 1:30 p.m. to prepare the food, and then to serve from 5 p.m. (dinner is at about 6 p.m.) through cleanup. Donations of cooked turkeys, sodas, and drinks are

needed. Last year about 14 BNLers helped, and hundreds of people were served. If you can provide a turkey, soda, or help at the dinner, please call BNL contact Patti Bender, Ext. 3145. We will even coordinate the turkey delivery! The contact at Long Island Council of Churches is Caroline Gumbs at 727-2210.

Next Week: Helping Hands & Donations Needed

Thee Island INN Soup Kitchen in Middle Island periodically needs people to help prepare and serve meals. They serve dinner on Wednesdays and Thursdays year round. There is a huge need for blankets/quilts at this time of the year. They would also appreciate monetary donations, new or gently used winter clothing, holiday gifts, food to make up food baskets, and paper goods. Contact Barbara Royce, royce@bnl.gov or Ext. 2098.

Genomes from pg. 1

French center for genome sequencing. Like K-12, the two B genomes each contain about 4.6 million nucleotide base pairs (Ts linked with As or Gs linked with Cs).

"One of the most striking observations in comparing the B and K-12 genomes is the seemingly non-random distribution of single base-pair differences between them," said Maslov, a physicist who studies intensive computational biological problems. "We are pursuing further analysis to try to understand the evolutionary mechanisms that produced this distribution."

The genome comparisons also turned up some interesting differences between the two B strains. Like identical twins separated at birth, the two B strains have had separate laboratory histories since 1959. One became REL606, a strain used at Michigan State University by Richard Lenski

and his collaborators to study long-term evolution in the laboratory. The other became BL21(DE3), a strain developed by Studier and colleagues at BNL to be used as a "factory" for producing proteins for basic research and for medical and industrial use.

"Detailed information about these two strains is useful for future laboratory studies but is also important for companies who are using proteins made from *E. coli* B strains for medical purposes," Studier said. "They want to know as much as possible about the bacterial strain, including where it came from."

Some detective work was required before the differences between the two B genomes could be understood. Although scientific papers told one story, information in the genome sequences told another, Studier said. The researchers pinpointed the discrepancy to a period

in the 1960s, as scientists at different labs shared strains for their research. Apparently, one sample was mislabeled in one of these exchanges. The current detailed genomic analysis uncovered this long-buried mix-up.

Once this mystery was solved, every difference between the two B genome sequences could be understood in terms of the different laboratory manipulations used on the ancestral strains, Studier said. This information provided new insights into the types of changes to the genome caused by standard laboratory treatments, including exposure to chemicals, irradiation with ultraviolet light, and transfer of DNA between genomes.

"It's amazing how much valuable information can be revealed by looking in detail at genome sequences," Studier said.

— Kendra Snyder

Donations Needed for United Way Yard, Book, Jewelry Sale, 12/2 & 3

Organizers for the United Way fund would much appreciate donations as follows: **Yard sale** items: tools, sporting goods, household, games, toys, collectibles. Please — no clothing, furniture, or large items. Steve Gill, Ext. 2496; Bob Lee, Ext. 3148; or Jason Remien, Ext. 3477, for pickup and delivery information. Bring gently used **books and videos** to the Research Library, Bldg. 477, by 11/26. Contact: Ext. 7537 or Ext. 3138. To donate gently used **jewelry, pocket books, watches, sunglasses**, call Alexa McGill, Ext. 5555.

Optics from pg. 1

...end up self-destructing from what's called film stress that gets built into them. We had to find a way to reduce this film stress so these structures don't explode or fall apart after they've been grown. Roughness can propagate through the stack, so the growth conditions must be just right in order to keep roughness to a minimum. Furthermore, the absolute position of each layer in the stack is critical, so long-term system drifts and growth-rate decay need to be accounted for. We took all these challenges that we have and wrapped them up in one machine that we think can help achieve all those goals.

Work is steadily progressing to push the limit for x-ray focusing to smaller length scales. We expect that with CVD's help we will be able to build world-leading multilayer diffractive x-ray lenses that focus x-rays down to nanometer-scale spot sizes. — Ray Conley

For more details on the project, go to: <http://bit.ly/17sfmf>.

Retirement Counseling

A TIAA-CREF consultant will answer employees' questions about their financial matters on Tuesday, November 24, and, in December, on Friday, 4; Monday, 7; Wednesday, 9; Thursday, 10; Monday, 14, and Tuesday, 15. Call 1-800-732-8353 for an appointment.

Dr. Forsyth, We Presume?

Retiree Eric Forsyth sails the Northwest Passage in his yacht Fiona, and meets the Ocean Watch crew for brunch at Gjoa Haven!

The Bulletin has been following the journey of BNL retiree Mike Reynolds, chief scientist on the Ocean Watch, but he was not aboard when the vessel made its way through the Northwest Passage, so he missed meeting up with Forsyth. The Ocean Watch is currently at sea, headed for Rio de Janeiro, which the crew expects to reach on December 1. After leaving Miami on October 26, the crew sailed through a part of the world where coral reefs are found (the West Indies, Caribbean Sea, and the north coast of South America). Eric Forsyth sailed to San Francisco, then returned home for a brief visit. He writes of his voyage ...

"Probably sticking your neck out by sailing across the top of the world is not what is commonly expected of a 77-year-old retiree; as the old joke goes, you don't have to be crazy, but it helps. This was to be my third cruise to the Arctic and as conditions vary widely every year I had plan B — if the ice proved too formidable I planned to return to the Atlantic Ocean and spend the winter in Brazil and the Caribbean. As it happened I reached my drop dead decision point only two days late and decided to push on to Alaska and hence to San Francisco.

The cruise took *Fiona* to the Canadian Maritimes and then Greenland. From there we sailed north of Baffin Island to 75°N to avoid the ice that always builds up on the east coast of Baffin. Our course was then west to Resolute on Cornwallis Island, stopping on the way at Beechey Island. This was the spot that the Franklin Expedition wintered over in 1845/46. Three sailors died there of natural causes and they are buried near the shoreline. In 1986 Canadian scientists exhumed the bodies and showed that although their deaths were due to respiratory problems they were suffering from lead poisoning caused by the newly developed method of canning food. After that the Franklin Expedition disappeared from



Above: "To add to the excitement, we were visited by a polar bear." Below: Eric Forsyth sails under the Golden Gate bridge.

human ken. Many years later it was discovered their ships had been crushed in the ice near King William Island and all men were lost. It was very exciting, and challenging to follow in their wake.

At Resolute we were beset by pack ice and forced into shallow water near the shore, and when the tide went out we were left high and dry. But we floated on the next high tide without sustaining damage. We had to wait ten anxious days before the ice began to open to the south. To add to the excitement we were visited by a polar bear.

After 200 miles we became trapped by solid pack ice near the scene of the Franklin tragedy, but after a couple of days the wind switched and we were able to work our way out. When Roald Amundsen made the first transit of the Northwest Passage in 1903/6, he wintered at a bay named after his sailboat — *Gjoa Haven*. We anchored there for a night and encountered one of the first boats making the passage from west to east this year — *Ocean Watch*. The crews of both boats had brunch together in the snack bar of the only hotel, the North Inn. Mark Schrader, *Ocean Watch's* captain, and I had a talk about the ice conditions we might both meet and also about his voyage, as he planned to sail to Cape Horn and thus circumnavigate the American continent, a region I was familiar with. Mark and I are both members of the Cruising Club of America, which is limited to 1,300 members world wide.



Thus it was also a club first for two members to meet at the top of the world.

A week later I made the decision to push on to Alaska and California, although it was nearly 4,000 miles to San Francisco and we had to move fast to avoid the winter ice formation. After clearing Point Barrow, the northern-most tip of Alaska, we encountered heavy weather and the steering system went out. We had to sail for nearly three days using the emergency tiller in cold, wet conditions. This did not impress my two-man crew and at Nome they decided to leave the boat. I sailed *Fiona* single-handed across the Bering Sea to Dutch Harbor where I was able to get a new crew to complete the voyage to the Golden Gate Bridge, nearly 9,000 miles from Long Island, the hard way."

Editor's Note: Forsyth has returned to San Francisco to start the next stretch of his voyage. You can follow his adventures at www.yachtfiona.com/. Read Reynolds' description of the endangered reefs at www.aroundtheamericas.org/story/Crew+Log+113+-+From+the+Onboard+Scientist.

BERA Volleyball League Standings

Standings as of November 13

Open League A	W	L
Veni Vidi Volley	16	9
Volley Llama	15	10
EZ Pass	10	15
Empire	9	16

Open League B

Crouching Digger	10	2
The Wall	8	4
Dodging Bullets	6	6
Late Entry	6	6
Setting Ducks	3	9
Bikers and Spikers	3	9

Mixed League 2

Bumpin Ugliers	11	4
Court Jesters	11	4
Ball Hogs	10	5
New Blood	9	6
Another Round	9	6
Team Bad Pass	4	11
Set It First	4	11
Family Ties	2	13

Mixed League 3

Cobbled Together	9	3
Volley of the Dolls	6	6
Upton Ups	5	7
Newbies	4	8

American Red Cross Lifeguard Training

Early next year, BERA will offer American Red Cross lifeguard training.

Those who successfully complete the program will receive certifications in lifeguarding, waterfront lifeguarding, CPR for the professional rescuer, automated external defibrillator (AED) usage, and first aid. All trainees must:

- be at least 15 years old;
- pass a mandatory swimming pre-test on Saturday, January 23, from 5-7 p.m. or Sunday, January 24, from 10 a.m. - 1 p.m.; and
- attend all training sessions: January 31; February 7, 14 or 21, and 28; and March 7, 14, and 21 at the pool in Bldg. 478 from 10 a.m.-3 p.m.

Call 921-6218 for more information and to register. If you decide to take the training, send your name, address, phone number, and a check for \$325/person made out to cash to: Lifeguard Training, P.O. Box 502, Upton, NY 11973.

Enjoy a Thanksgiving Meal, 11/24

All are welcome to enjoy a Thanksgiving Meal in the Recreation Hall, Bldg. 317, on Tuesday, November 24, 5:30-8 p.m. The event is sponsored by the English for Speakers of Other Languages (ESOL) program. Turkey and stuffing will be provided; please bring a side dish, beverage, or a dessert to share. Contact ESOL Coordinator Jennifer Lynch, Ext. 4894 or jlynch@bnl.gov, to let her know you will attend. Also, please call Lynch to volunteer your help in organizing and serving, first at 10:30 a.m., then from 4 to 8 p.m.

Science-Based Holiday Shopping, Starts 12/4

Get part of your holiday shopping done while helping everyone learn more about science. Fun toys and unique gifts, all science-based, will be available at the Science Learning Center, Bldg. 935, on three Fridays: December 4, 11, and 19, from noon to 2 p.m.

BWIS Wine & Cheese Party

The BNL community is invited to the Brookhaven Women in Science (BWIS) Wine & Cheese Party to be held on Thursday, December 10, 5:15 -7 p.m. in the Recreation Hall, Bldg. 317, in the apartment area. BWIS holds this event annually to thank all who have helped with and supported BWIS programs, welcome new members, and introduce the new executive board to the Laboratory community.

Both men and women are welcome to join BWIS. The group's mission is to promote the advancement of women in the scientific professions and provide a forum for the exchange of scientific, technical and professional information. More information about BWIS and the membership application form are available at the BWIS website: <http://www.bnl.gov/BWIS/>. For more information about the December 10 event, contact Lynne Ecker, Ext. 2538, or lecker@bnl.gov.

CALENDAR

Today, Friday, 11/20

*Sandwich Day at the NSLS
Noon-2 p.m. NSLS lobby, Bldg. 725. For the United Way. Grilled cheese or peanut butter & jelly, \$2; w/chips, \$2.50. See pg. 2.

— WEEK OF 11/23 —

Monday, 11/23

*BNL Art & Crafts Show
11:45 a.m.-1:30 p.m., Reception from 5 to 7 p.m. Berkner Hall, Room B. See below, left.

IBEW Meeting
6 p.m. Centreach Knights of Columbus Hall, 41 Horseblock Rd., Centreach. 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.

Tuesday, 11/24

*BNL Art & Crafts Show
11:45 a.m.-1:30 p.m., Berkner Hall, Room B. See below, left.

*NSLS-II Bake Sale for United Way
1-3 p.m. Bldg. 703. Purchase baked goods to benefit the United Way of Long Island. See pg. 2.

Wednesday, 11/25

*BNL Art & Crafts Show
11:45 a.m.-1:30 p.m., Berkner Hall, Room B. See below, left.

Thursday, 11/26

Thanksgiving Holiday, Lab Closed
Happy Thanksgiving to all.

Friday, 11/27

Day After Thanksgiving Holiday, Lab Closed
No Bulletin this week.

— WEEK OF 11/30 —

Monday, 11/30

*Café Physique! For the United Way
3:30 p.m. Physics Department Large Seminar Room, Bldg. 510. Physics demonstration show with live music. Suggested donation, \$5 until 11/25; \$10 for later tickets. For tickets, call Linda Feierabend, Ext. 4887.

Tuesday, 12/1

*Asian Tea House (Great Lunch!)
Noon-1:30 p.m. Bldg. 463, Seminar Room 167. Home-cooked fried rice, noodles, dumplings, almond cookies, with soothing tea. \$5 donation to benefit the United Way.

Wed & Thurs, 12/2 & 3

*Holiday Auction, Yard, Book, & Jewelry/Accessories Sale
11 a.m.-2 p.m. Berkner Hall lobby. Come buy! Also, please bring a canned good or new toy or nice clothing for charity. In aid of the United Way.

Friday, 12/4

Supervisor Dunk Tank
11 a.m.-2 p.m. Firehouse, Bldg. 599. To benefit the United Way.

Arrivals & Departures

— Arrivals —

Brandon Carter En./Utilis.
Jeffrey Dolph Physics
Nancy Lynch HROM
Toby Levine Magnet
Evan Pack ES&T
Savvas Politis ES&T
Vonciel Stewart PPM
Jason Webb Physics
Damon Turney ES&T

— Departures —

Frederick Bornemann IV C-AD
Alfred Cordero Maint. & Fab.
Suk Kyoung Lee Chemistry
Sebastien C. Monchy Biology
Oleksandr Velytsky Physics
Alvin Vestal, Jr. PPM

Correction

The Bulletin regrets that the name of NSLS arrival **Oksana Ivashkevych** was inadvertently misspelled in the 11/7/09 issue.

BNL Art & Crafts Show, 11/23-11/25

Come see the creative side of the BNL community, at the annual Art and Crafts Show, which opens November 23. All are invited to attend this free show, Monday through Wednesday, November 23-25, 11:45 a.m.-1:30 p.m. in Berkner Hall, Room B. An opening reception will be held on Monday, November 23, 5-7 p.m.



Among others, (from left) Tiffany Bowman, Mark Parsons, and Lloyd Nelson will show their work.

Time to Update '09' Vehicle Stickers

All BNL employees, guests, and retirees requiring long-term access to the Laboratory are reminded to update their vehicle stickers, if necessary. Any blue sticker beginning with the numbers "09" must be updated.

If your sticker begins with the numbers "10", "11", or "12", you do not have to do anything.

To update your sticker, bring your BNL ID badge, driver's license, and vehicle registration to the Badge Office in Building 400. Hours of operation are Monday through Thursday, 8:30 a.m. to 4 p.m., and on Friday, 8:30 a.m. to 1 p.m. For more information, call Ext. 5690/2596/4656, or 5149.

Classified Advertisements

To apply for a position, go to www.bnl.gov. Select "Job Opportunities," then "Search Job List."

LABORATORY RECRUITMENT - Opportunities for Lab employees only.

ASSISTANT PROPERTY ADMINISTRATIVE SPECIALIST (A-4) - Requires a bachelor's degree in business administration or a minimum of eight years of related experience in business administration showing progressively more complex responsibilities. Requires National Property Management Association (NPMA) certification and knowledge of Federal and Department of Energy (DOE) Property Management regulations. Proficiency in Excel, MS Word, Outlook, MS Access, PowerPoint, excellent oral and written communication skills, excellent organizational skills and excellent interpersonal skills are required, as is the ability to work with a team. Experience with PeopleSoft/Oracle database is also required. Extensive knowledge and experience in the complete process of administering equipment loan agreements is highly preferred. Will assist the Property Manager in the administration of the Laboratory's property program. Responsible for the administration of the Laboratory's excess acquisition/disposal program for government equipment, equipment transfers and loan of government equipment. Additional responsibilities include the role of Property Representative for the Division as organizational contact for all day-to-day activities related to Asset Management. Will involve regular contact with internal and external business contacts to obtain and provide detailed and complex information to PPM management for project milestones and on matters of critical importance to operations. Will be expected to exercise initiative and good judgment, and be able to multi-task. Apply for Job ID # 15104.

MATERIAL HANDLER (LG-3) - Performs a variety of laboring and manual tasks in stores operations such as moving, loading, unloading, sorting and storing of materials. May operate motorized equipment pertinent to stores operations. Keeps stores facilities in neat condition. Procurement & Property Management Division. Apply for Job ID # 15105.

OPEN RECRUITMENT - Opportunities for Lab employees and outside candidates.

POSTDOCTORAL RESEARCH ASSOCIATE (Atmospheric Sciences) - Requires a Ph.D. in atmospheric sciences or closely related field, and experience with regional or global-scale modeling. Experience with WRF is preferred, but experience with other mesoscale models or the NCAR CAM is acceptable. Experience with computing on massively parallel systems is also preferred. Familiarity with cloud physics, radiation transfer, and remote sensing is desirable. Will work with scientists from BNL and Stony Brook University to improve cloud representations in regional- and global-scale climate models by running the WRF model on the New York Blue supercomputer, and assessing and improving the simulations using radar and satellite-based observations. Under the direction of A. Vogelmann, Environmental Sciences Department. BNL policy states that Research Associate appointments may be made to those who have received their doctoral degrees within the past five years. Apply for Job ID #15106.

POSTDOCTORAL RESEARCH ASSOCIATE (Nuclear or Radiochemistry) - Requires a Ph.D. in chemistry or related field with experience in nuclear or radiochemistry. Must be willing to participate in a DOE sponsored program on radioisotope research and production with accelerator beams. Must have experience in development of production scheme and characterization of the PET isotope Y-86. Related projects include development of production of radioisotope Cu-67. Will gain experience in accelerator isotope production, remote manipulations in hot cells, and gamma spectroscopy. Good written and oral communication skills are required. Will join the Radionuclide Research and Production Group of the Medical Department. The main program focus is to produce and distribute radioisotopes for nuclear medicine research and clinical practice, and to develop radioisotopes for new applications in medicine and science. The group's major facilities include the Brookhaven Linac Isotope Producer (BLIP) and a fully equipped hot laboratory with hot cells, radiochemistry research laboratories, and analytical equipment. The BLIP utilizes high intensity proton beams of up to 200 MeV. Employment is contingent upon the successful completion of a DEA background check. Under the direction of D. Medvedev, Medical Department. BNL policy states that Research Associate appointments may be made to those who have received their doctoral degrees within the past five years. Apply for Job ID #15107.

STAFF ENGINEER (P-5, reposting) - Will contribute to the R&D, design, measurement, installation, and commissioning of the NSLS-II permanent magnet systems. Responsibilities will include designing and testing the electrical systems and controls interface for the insertion device magnetic measurement facility. Will report to the NSLS-II Insertion Devices Group Leader. Qualifications Required: BS degree in physics

or electrical engineering and minimum of three years of progressively responsible related work experience in DAQ, UNIX, C/C++ programming and other scripting languages. Qualifications Preferred: advanced degree in physics or electrical engineering; knowledge and experience in magnetic field measurement using coils and Hall probes, EPICS, and motor controls. National Synchrotron Light Source II. ERAP Eligible \$1,000. Apply for Job ID #15076.

TECHNOLOGY ANALYST (I-4, two positions) - Requires a BS in computer science, electrical engineering, or physics, and knowledge of Java, C, C++, data structures, real-time and multi-threaded programming. Must have the ability to clearly communicate and work productively. Will work in a team environment to collect, develop, design, and implement software for equipment and subsystem controls. Will be exposed to challenging technical issues in time-critical applications for factory automation as well as tool development for the management of facility data that is used to minimize the cost of maintenance for the facility life time. The programming environments include RTEMS (an open-source, real-time operating system) and LINUX. Educational or work experience in process control systems, exposure to the integration of hardware into an operating system, and educational or work experience with automation in research physics supports project objectives are desired. Knowledge of Matlab or equivalent mathematical programming package and experience in the use of Relational Database including SQL programming is also desirable. National Synchrotron Light Source II. ERAP eligible \$500. Apply for Job ID #15094.

TECHNICAL RESEARCH ASSOCIATE (Physical Security Systems, T-6) - Requires an associate's degree in an area of study relevant to the position and more than 10 years of in-depth experience with the operations and configuration of physical security systems hardware and software that includes intrusion detection, video assessment, access control systems, alarm reporting, analog/digital audio/video archiving systems in a campus environment. Requires a working knowledge of general electronics, security specific electronics, and communications systems for voice, video and data in both fixed and mobile applications. Required skills include excellent verbal communication, excellent written communication, and advanced competency in personal computer systems, basic networking, and security specific software applications. Physical Security Professional certification by ASIS International (or equivalent) is preferred. Prior law enforcement or military experience in technical operations and or electronic surveillance systems is a plus. Familiarity with Department of Energy and/or Department of Defense policy and directives is highly desirable. Must be able to obtain/maintain a DOE Q Access Authorization (government security clearance). Serves as a team member supporting installation, upgrade, and conversion and servicing of alarm systems; access control systems, video assessment systems; and all other types of physical security equipment. Maintains an in-depth knowledge of state-of-the-art security equipment standards and technology encompassing all physical security system elements. Provides solutions to specific security concerns identified through customer requests and security audits. The position provides product research, feasibility studies, project planning, tracking and quality assurance and overall vendor communication and management. Works with assigned Laboratory Alarm Electricians in the execution of a broad range of technical tasks. Reviews completed work to ensure conformance with DOE and BNL objectives and directives. Laboratory Protection Division. Apply for Job ID # 15103.

ADMINISTRATIVE SERVICES ASSISTANT (A-2, two-year term) - Requires an AAS degree or formal secretarial training or equivalent, plus four years of experience in a secretarial or administrative role. Demonstrated proficiency in MS Word, Excel and Outlook is required. Must have strong communication, organizational and problem-solving skills as well as the ability to work independently, handle multiple and parallel projects, prioritize workload, and handle non-routine office matters. Knowledge of Laboratory practices, policies, and procedures is highly desirable, as well as knowledge of PeopleSoft Financials (especially travel), eProcurement and web requisitions. Responsibilities include both routine and non-routine administrative assignments such as: processing travel in BNL PeopleSoft, arranging conferences and meetings, setting up appointments and services, preparing reports and correspondence, information gathering and taking minutes at meetings. Must be team-oriented. Parts of the responsibilities include sharing administrative duties with other admins, both within the NSLS-II Project's Accelerator Systems Division and on the project. National Synchrotron Light Source II. ERAP eligible \$500. Apply for Job ID #15096.

ADMINISTRATIVE SECRETARY (A-2) (REPOSTING) - Requires formal secretarial or office administration training or equivalent, plus four years of relevant experience. Must possess computer proficiency in MS Office products such as Word, Excel, PowerPoint, Access, and Outlook. Knowledge of Web Reqs and PeopleSoft systems desirable. Must possess a high level of com-

petence in performing complex administrative secretarial skills and be able to work independently, under pressure, balancing priorities and performing multiple tasks. Knowledge of Laboratory practices, policies, and procedures related to assigned administrative functions is desirable. Will perform routine and a variety of complex administrative secretarial functions for a project team in the MPC&A Cooperative Programs Division. Position requires extensive processing of foreign and domestic travel for project team members inside and outside the Laboratory and subcontractors. Typical assignments may include presentation, report and correspondence preparation, scheduling appointments, and other administrative duties. Will be expected to coordinate and attend weekly teleconferences between DOE and project team members, and record minutes for distribution. Will be responsible for the correct handling and filing of Russian deliverables and reports, including proper access, reproduction, storage, transmission and destruction of foreign government/access-controlled documents in accordance with Executive Order 12958. Will act as liaison between project team and various BNL departments as well as have frequent contact with high-level staff at DOE, other National Laboratories and subcontractors regarding travel coordination, and invoice processing and tracking. Will assist in the processing and monitoring of Web Reqs, invoices and contract amendments. Candidate must be a U.S. citizen and able to obtain and maintain a DOE "Q" clearance. Nonproliferation and National Security Department. Please apply to Job ID #15010.

Motor Vehicles & Supplies

06 DODGE CHARGER - 75K mi. orig owner, non smkr, 3.5 upgraded eng, excel cond, \$10,500. 872-8966, eastnder@bnl.gov.
03 VW GOLF - 106K mi. dark-blue, 5-Sp mnu. New brakes, cat.converter, drive belt & wtr pump. vg cond. \$5,100. Jo, Ext. 5068.
00 HONDA ACCORD - orig. owner, 185k mi. dk green, excel. cond. Ask \$3,750, 569-2211.
99 HONDA CIVIC EX - 85K mi. Orig owner, a/t, p/w, s/roof, new tires, upgrd stereo w/built-in-i-plug, \$5,500 neg. 682-0092.
98 VW NEW BEETLE - 124K mi. White, 4cyl, 5 Speed Manual, excel. cond, pics avail. \$3,000. Mario, Ext. 3114, 646-267-9069.
94 JEEP GRD CHEROKEE LTD - 121K mi., loaded, 4WD, tow pkg. \$2,900. Ext. 3116.
86 CHEVY SUBURBAN - 95.5K mi. excel, v.clean, all pwr, towing pkg, 2-tone, 350 eng., estate sale. \$4,500 neg. Ext. 4475.
SNOW PLOW - westn 7.5' pwr angle, quick-disconnect, hydrcs & hldights, no truck mt or wire harness, \$750. 872-8963.
THULE ROOF BAR & SKI RACK - detachable rack, 4 prs w/locks for both, gutterless mount, \$200. Ext. 3822, 929-6527.
TIRE - Uniroyal donut/spare on rim, gd cond, T125/80D 16", from a Buick, \$15. 949-4046, susiec@centermoricheslibrary.org.
TIRES/WHEELS/HUBCAPS - Bridgestone P205/55R16, <100mi, off '08 Civic, \$200/set of 4. jadams@bnl.gov.

Furnishings & Appliances

BROYHILL SOFA - lg, grt cond, tones of blue w/oak wooden legs, \$200/obo, u-pickup. 849-2382 or hsavage@bnl.gov.
BUNK BED - Stanley furn, showm cond, lite maple, mttrs/boxsprgs incl, ez dissmbl to dual beds/\$850/firm. Thomas, Ext. 5740.
CHILD BUNK BED - all wood, desk pull out bed lists/\$1659.45, ask/\$600, Ron, 379-0742 or rrje4019@msn.com.
DRESSER - solid oak, 42wx19dx35h, 2/over/2, \$150. 878-9020, siverz@bnl.gov.
ENTERTAINMENT WALL UNIT - glass bk-self drs, grt cond, wood, 53w 48h 16 1/2d, u-pic-up, pic avail. Diana, Ext. 3681.
FIREPLACE - dble-sided, \$100, range hood \$15, SS d/washer \$50. Ext. 3116.
GAS STOVE - bl&silvr, less 1yr old, can convert for propane, pd/\$650, ask/\$325. pics/specs avail. Ext. 5126, romero122@aol.com.
HANDPAINTED BIRDHOUSES - & more, hand painted, NY Yankees, will add fav player #. Pics avail. \$25-\$50. 379-0742.
KITCHEN/DINING SET - Bermuda/Plantation WhiteWash S. Sea Rattan set w/42" glass table, 4 capt's chrs/\$400. 419-6854.
MEDIA CABINET/ARMOIRE - light wood, 1 shelf, 3 drwrs, 3'3"l, 1'8" w, 5'8" h \$500, pics avail. 935-3777, tcutrone@bnl.gov.
OAK TABLE - by Ashley, 42" rmd Pedestal Table 31" h. Tile surface. Pics avail. Ask \$35. 790-6374 or brookhaven@optonline.net.
PANASONIC MICROWAVE OVEN - pretty gd cond, w/carousel, \$5. Ext. 2159.
PLAYER PIANO - 20 yr old, excel cond, cherry wood color, needs tune up, \$250. James, 872-8966 or eastnder@bnl.gov.

Audio, Video & Computers

BROTHER HL-2140 \$45 - like new, b/w laser printer, w/box, manual, CD. Jo, Ext. 5068 or jlonien@bnl.gov.
EPSON MOVIE MATE 72 - hi-def projector, bit-in DVD plyr & spkr sys, \$600, Jo, Ext. 5068 or jlonien@bnl.gov.

Car Pool

SOUND BEACH - BNL employees to carpool to/from Sound Beach area, maybe 3 or 4 times/week. mmiranda@bnl.gov.

Sports, Hobbies & Pets

AB LOUNGE, ORIGINAL \$35. - Hardly used. 790-6374 or brookhaven@optonline.net.

Trombonist Ray Anderson, 12/5 Special Appearance by Michael Jazz Trio

Trombonist Ray Anderson will perform on Saturday, December 5, 2009, at 8 p.m. in Berkner Hall. Opening the performance will be the Michael Jazz Trio. Sponsored by the BNL Music Club, the event is open to the public. All visitors to the Lab of 16 and older must bring a photo I.D. Tickets for the show are \$15 in advance and \$20 the day of the show. Buy tickets at the BERA Store, through www.ticketweb.com or at the door. Advance ticket purchase is recommended.

Anderson, known for his unconventional use of the plunger mute, dynamic performance, and demonstrative vocal-like tones, will perform original compositions, including the popular, *If I ever had a home it was a slide trombone*. He was named for five straight years as best trombonist by the Down Beat Critics Poll and declared "the most exciting slide brass player of his generation."

A native of Chicago's Hyde Park area, Anderson took up the trombone in fourth grade, influenced by his father's Dixieland recordings. In 2001, he became a guest faculty member of the Music Department at the State University of New York at Stony Brook and, in 2003, was hired as the Director of Jazz Studies. He has received numerous awards for musical excellence.

Before Anderson takes the stage at this performance, the young Michael Jazz Trio will show off their talent. The three brothers, who all hold the middle name Michael, are: 15-year-old Matthew on keyboard, 13-year-old David on alto and tenor sax, and 9-year-old Jordan on drums. The three were born and raised in Central Islip, New York. They have played at various venues including BNL earlier this year, and they have been featured in the Southampton Press, the Islip Bulletin, and appeared live on radio stations.

Inspired by music legends like the late John Coltrane and Duke Ellington, the boys continue to fine-tune their talent while maintaining academic excellence. In 2008, they released their first CD, "The Beginning."
— Jane Koropsak

BICYCLES - Wmn's: 10 sp Trek (Sport 700, Multitrac, thin tires); 10 sp Rdmstr (Sra Trail, off-rd tires) \$50 ea; free hmt. Ext. 4340.
CANNONDALE CAAD8 - Rd Bike excel, 58cm, w/CycleOps Fluid-2 Trainer +extras, \$1,250, Jo, Ext. 5068, jlonien@bnl.gov.
CELLO - Anton Schroetter German-made instrument, v gd cond & sound, hard case incl. \$3500 firm. Ext. 4475, plate@bnl.gov.
DRAFTING TABLE - adjstble 90°, solid wood/metal 42.5" w, 32.5" h, 31" d. Plexiglass covr on drawg srface, \$80. Ext. 7114.

Community Involvement

SAVE A PET - shelter in Port Jeff still has many needs. food, blankets, etc. please help the animals, thanks. Hugh, Ext. 2031.

Tools, House & Garden

BAND SAW - 12" Craftsman 2 sp w/legs, extra blades, excel cond. \$120. Ext. 7263.
COLEMAN GENERATOR 1850 - rarely used, grt cond. Runs 7 hrs, 2-120V outlets, 70lbs, orig \$539, ask \$250 neg. Ext. 7132.
DRILL PRESS - bnchtpt Walker turner \$75; Crft/man 12" throat b/saw/\$50; jointer 4"/\$40; belt/disc sander, \$50. 872-8963.

Miscellaneous

ANGEL FACE SKETCHER BOOTS - New in box, sz 6.5 \$25. ddaniels@bnl.gov.
HOLIDAY GIFTS - Scarves, handbags, jewelry, etc, 11/27, 5-8 pm, 11/28, 11am-5 pm, 16 Jills Way, Baiting Hollow, 523-7870.
HOT TUNA TICKETS - Beacon Theater, 12/5, upbalc, 4 tickets, \$133/pair. Steve, Ext. 4211.
WALL MURALS - any wall, any size, kids theme to l/r or den, beach scene, more, pics, price to size & detail. 379-0742.
WORK BENCHES - 2/maple top, metal legs, 30"x60", \$50 ea. 872-8963.

Happenings

CLOSING W/END OF MAME - Nov. 21, 22, 8 pm marks end of *Mame* at the Riverhead HS. Tickets at door, \$15, to benefit scholarship fund. Glenn, 344-7477.
RABBIT HOLE, NFCT - Mattituck, Rave review: www.27east.com/arts.cfm! Fri, Sat, Sun 11/20-11/22. Tickets \$15 @ www.nfct.com, 631-298-NFCT. Laura, Ext. 2520.

Wanted

ADOPT-A-PLATOON - Monetary donations gratefully accepted towards mailing shipments to military overseas. Thank you. Joanne, Ext. 8481.
APARTMENT TO RENT - Babylon/Bayshore/Islip area, 1-2 bdrms, <\$1000/mo, all util incl. 286-1018 or fitzr21@gmail.com.
BNL FAMILY MEMBERS IN MILITARY - If you have a family member that has been deployed overseas, please contact Adopt-a-Platoon. Joanne, Ext. 8481.
ENTERPRISE CAR RENTERS - encountered problem when returning to JFK or LGA? Ext. 7505.

NEW/GENTLY USED TOT-TO-ADULT CLOTHING, TOYS, OR \$\$\$ - to give to 76 families living in 1 local area shelter Women/men's clothes, gently used, Ext. 3161 or kratto@bnl.gov. Clothes for tots to teens, Laura, Ext. 4027 or lbuscemi@bnl.gov. Toys & books, Karen, Ext. 2449 or kpaukner@bnl.gov. Thank you so much.

YARD SALE ITEMS NEEDED - Donated for United Way yard sale, 12/2&3, incl: tools, sporting goods, household, games, toys, jewelry, collectables. Please—no clothing, furniture, or large items. Contact Steve Gill, Ext. 2496; Bob Lee, Ext. 3148; or Jason Remien, Ext. 3477 for pickup/delivery info.

Free

LOWREY ORGAN - Orchestral holiday organ in excel working cond, you pick up. Maryann, Ext. 4705 or mjulian@bnl.gov.

Real Estate For Rent

E.PATCHOGUE - 3 bdrm furn hse, lr, dr eik, 2 full bath, 2car gar deck/back yd, custom kit, high spd cable/int, util incl, close to store/LIRR, bus stop, walk to water. \$2,850/mo. 484-885-8867.
EAST SETAUKET - 1 bdrm bsmt apt, full kit, bath, own ent, new carpet/paint, heat, water, cable incl, 20-25 min. from BNL, off 347. \$800/mo. 813-0910.
MANORVILLE - 2 bdrm, 1 full bath, dr/ lr combo, full kit, bright/airy, incl all util, cable TV, pets OK, 10 min to Lab. \$1,500/mo neg. 766-8619.
MASTIC - One bdrm bsmt apt, full kitchen, l/r, bath, cable, Neat, clean, priv. entr., small fenced yard, off str. prking. Quiet family n'hood. \$750/mo includes all. 335-9050.
MILLER PLACE - Furn. Col house in prof. resid area, 8 mi. to BNL. l/net/TV. Heat/AC. Full kitchen. Own furn. bdrm. Resp. non-smkr. \$675/mo incl. all. 744-8386.
N.SHIRLEY - 1 bdrm grnd flr apt, furn, quiet area, pvt ent/yd, util incl, walk to stores, 3 mi to Lab. \$800/mo. Ganga, Ext. 3849, 281-3479.
PATCHOGUE - 1 bdrm apt in priv. home. eik, l/r, priv entr, 1-yr. cable. No smkg/pets. \$950 incl. all, sec. dep. req. 569-2211.
ROCKY POINT - 1 bdrm upper unit, kit, bath, l/r, balcy, quiet co-op comm, nr stores, Indry rm on prem, prkg, no smkg/pets, CAC, incl. gas/water. \$1,150/mo. 806-5965.
ROCKY POINT - 1 bdrm, second flr, priv drway, incl. some util, no smkg/pets. \$795/mo. 821-3287.
ROCKY POINT - 2-3 bdrm hse, 1.5/ba, eik, l/r, fen yd, no smkg. \$1,300/mo. 525-6648.
SHIRLEY - furn cottage, everything new, all incl, no smkg. \$1,000/mo. Vincent, 772-4384 or vident@optonline.net.
WADING RIVER - part to fully furn apt in very desirable area, nicely appointed, incl all. \$900/mo. 897-9713.
WADING RIVER - 1 bdrm apt, eik, large l/r, full bath, priv entr, 10 min BNL, \$1000 /mo plus 1 mo sec., utils incl., single non smoker only. no pets. 929-3419.

Real Estate For Sale

SO. BAYPORT - Lakefront 4Br, 2.5Ba, Den w/fplc, lrg rooms, igp, lrg redwd deck, 2car gar, 2/3acre, cul de sac, \$575,000. 472-0393.

In Appreciation

To my friends and co-workers: I would like to thank each of you for your warm sentiments, prayers, and thoughtful acts of generosity following the recent passing of our sister, Eileen. She was a gift to each of us and will be terribly missed. Sincerely,
— Don Farnam & Family