

## 2012 RHIC/AGS Annual Users' Meeting

### 'Frontiers of RHIC Physics'

June 12–15, 2012 ..... See p. 2 for details

## Radoslav Adzic Honored: 'Inventor of the Year'

The New York Intellectual Property Law Association (NYIPLA) has honored Radoslav Adzic, a senior chemist in the Chemistry Department, with its 2012 Inventor of the Year Award. Adzic was recognized for his extensive work with nanocatalysts that require minimal amounts of platinum for use in hydrogen fuel cells. Adzic's catalyst could have a tremendous impact on the viability of fuel cell-powered vehicles, which, in turn, could decrease consumption of fossil fuels.

"I am extremely honored to have been chosen for this award," Adzic said.

The award was presented at the NYIPLA 2012 Annual Meeting and Awards Dinner on May 22 at the Princeton Club in New York City. NYIPLA is a bar association comprised of private, corporate, and governmental lawyers who specialize in patent, trademark, and copyright law.

Adzic was nominated by Alan Sack, an intellectual property attorney from Locke Lord LLP who,



R. S. Adzic

with his team, works with the Lab's Intellectual Property Legal Group and the Office of Technology Commercialization & Partnerships during the patent application process. Sack, a NYIPLA member who has worked with the Lab since the late 1980s, said that he nominated Adzic based on Adzic's important work with nanocatalysts and fuel cells, his prolific patent application output, and the significant scientific contributions he has made during his lifetime.

"Radoslav is a very thoughtful scientist. It is a real pleasure working with him," Sack said. "I am very happy for him and for the Lab that he won."

Earlier this year, the electrocatalysts and the device used to create them were licensed to N.E. Chemcat Corporation, the leading catalyst and precious metal producer in Japan. With its industrial resources, N.E. Chemcat can create and offer large quantities of the catalyst to the interested...

See *Radoslav Adzic on p. 2*

## D'Agostino of DOE Commemorates Decommissioning of BGRR During Tour of Brookhaven Lab



Thomas P. D'Agostino, Under Secretary for Nuclear Security and Administrator of the National Nuclear Security Administration, visited Brookhaven Lab on May 17. Approximately 125 members of the Lab and DOE community greeted D'Agostino, whose responsibilities include overseeing the DOE Office of Environmental Management, at an event to commemorate the decommissioning of the Brookhaven Graphite Research Reactor (BGRR).

The BGRR was the first nuclear reactor built in the United States for peaceful atomic research and it began operating in 1950. An estimated 25,000 scientific experiments occurred at the BGRR before it was placed on standby in 1968 and then permanently shut down. Decommissioning the BGRR began in the late 1990s, and the Lab recently completed the physical work of removing the reactor's graphite core and associated structures with funding from the American Recovery and Reinvestment Act.

"The work here demonstrates what can be accomplished by people with vision, with determination, and with corresponding goals,"



Roger Stoutenburg 04050512

Thomas P. D'Agostino (fourth from left), Under Secretary for Nuclear Security and Administrator of the National Nuclear Security Administration for DOE, is in front of the Brookhaven Graphite Research Reactor. With him are: (from left) Captain David Alldridge, Military Assistant to the Under Secretary for Nuclear Security, DOE; William Bookless, Assistant Laboratory Director for Policy and Strategic Planning at BNL; John Sattler, Acting Director of the Brookhaven Federal Project for DOE; and, from BNL: Sam Aronson, Laboratory Director; George Goode, Assistant Laboratory Director for Environment, Safety, and Health; Michael Bebon, Deputy Laboratory Director for Operations; and Doon Gibbs, Deputy Laboratory Director for Science and Technology.

See more photos online: <http://1.usa.gov/Kgcmvz>

D'Agostino told those attending the event. "The vision begins with the idea of closing the circle of a facility that served its nation well."

D'Agostino continued, "The work done at Brookhaven is sparking a clean energy revolution. It's strengthening and broadening American leadership in fundamental research, and you're also advancing the educational opportunities for young scientists and engineers — the people who are going to take us out into the future."

While on site, D'Agostino met a number of Brookhaven scientists, including BNL retiree Julius Hastings, who had the first published paper for research done at the BGRR. D'Agostino also toured some of the Lab's current cutting-edge research facilities, including the Center for Functional Nanomaterials, Instrumentation Division labs, Long Island Solar Farm, National Synchrotron Light Source (NSLS), future NSLS-II, and Relativistic Heavy Ion Collider. — Joe Gettler

## 'Surfing With Wavelets' Mathematician Ingrid Daubechies To Speak at Brookhaven Lab, 6/7

Ingrid Daubechies, a physicist and mathematician, will give a talk titled "Surfing With Wavelets" in Berkner Hall on Thursday, June 7, at 4 p.m. Elected the first woman president of the International Mathematical Union (2011–2014), Daubechies is currently the James B. Duke Professor of Mathematics at Duke University. Sponsored by Brookhaven Women in Science (BWIS) and Brookhaven Science Associates, the company that manages the Lab, the talk is free and open to the public. Visitors to the Lab age 16 or older must carry photo I.D.

Increasingly awash in data from satellite signals, weather maps, digital video, and complex medical imaging, modern understanding of signal transmission analysis and enhancement relies on Daubechies' work with wavelets and image compression. Focusing on the mathematical aspects of time-frequency analysis and its applications, Daubechies is currently applying her methods and techniques to learning theory.

Daubechies grew up in Belgium and received her bachelor's degree and Ph.D. from the Free University in Brussels. Although she studied to become a physicist, her work has always been very mathematical. She held a research position at Free



University, was a member of the technical staff at AT&T Bell Laboratories, a Fellow of the John D. and Catherine T. MacArthur Foundation, and William R. Kenan Jr. Professor in the mathematics and

applied mathematics departments at Princeton University.

Daubechies has also been much involved in helping communicate mathematics to the public, in particular, in developing ideas for kindergarten-through-high-school mathematics curricula that reflect present-day applications of mathematics.

The recipient of numerous awards in recognition of her groundbreaking work, Daubechies was honored with the Louis Empain Prize in Physics, awarded once every five years to a Belgian scientist for work done before the age of 29. In 1998, she was elected to the National Academy of Sciences (NAS) and as a Fellow of the Institute of Electrical and Electronics Engineers. The American Mathematical Society awarded her a Leroy P. Steele prize for exposition in 1994 for her book, *Ten Lectures on Wavelets*, as well as the 1997 Ruth Lyttle Satter Prize for her "deep and beautiful analysis of wavelets and their applications." In 2000, Daubechies became the...

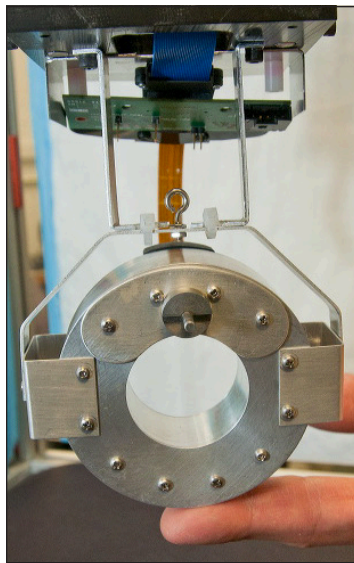
See *Daubechies on p. 2*

## Researchers Move Inventions Closer to Market With BNL's Technology Maturation Program Deadline for proposal submissions for funding is June 18

Scientists can find the road from scientific discovery to technology deployment to be long and hard, with unexpected challenges. At BNL, an important early step is preparing a technology to be attractive to partners in the commercial marketplace.

The BNL Technology Maturation Program is an important part of the strategy to accomplish the Lab's technology transfer mission by supporting promising discoveries through this process. Since 2008, the maturation program has provided BNL researchers with seed money for additional R&D of early stage technologies. The goal of the program is to move promising research discoveries from the lab stage through a real world "proof of concept" stage and to a degree of development that will create partner interest toward successful deployment.

The deadline for submissions of this year's proposals for Technology Maturation funding is June 18. Projects should be designed to achieve specified results and milestones toward a suc-



Joseph Rubino 0110311

This small-scale PET scanner will advance research on conditions such as cancer, Alzheimer's, and Parkinson's disease.

cessful outcome. Office of Technology Commercialization and Partnerships (OTCP) advises that cross-functional collaboration is extremely helpful, and strongly recommends that teams consult with OTCP staff in the preparation of proposals.

### Three PET Technologies

After receiving funding assistance from the Technology Maturation Program, Paul Vaska and David Schlyer, Medical Department, and Craig Woody, Physics Department, have had three positron emission tomography (PET) technologies — RatCAP, a breast imaging system, and a wrist scanner — optioned to private companies that hope to commercialize them. Aurora Imaging Technology, Inc., based in Boston, and SynchroPET, a start-up based in nearby Shoreham, are now working with Vaska, Schlyer and Woody to help make the devices useful for medical treatments.

### Rat-CAP

The RatCAP is a new small-scale, portable brain-imaging device that allows for a dynamic range of new applications, including integration with magnetic resonance imaging (MRI) and compact scanners that can be "worn" by fully conscious, active rats. These new ways to "see" inside the body...

See *Tech Maturation on p. 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.

— 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: Yogalates

Noon–1 p.m. at the Rec Hall (Bldg. 317). Registration required, Ext. 2873.

Mon. & Thurs.: Kardio Kickboxing

\$5 per class. 12:15–1:15 p.m. in the gym (Bldg. 461). \$5 per class. Ext. 2873.

Mon., Tues., Thurs., & Fri.: Tai Chi

Noon–1 p.m., B’haven Cntr (Bldg. 30), N. Rm. Adam Rusek, Ext. 5830, [rusek@bnl.gov](mailto:rusek@bnl.gov).

Tuesdays: Hospitality Welcome Coffee

10:30 a.m.–noon. Rec Hall (Bldg. 317). Meet over coffee. Children welcome.

Tuesdays: Pilates

Noon–1 p.m. at the Rec Hall (Bldg. 317). Registration required, Ext. 2873.

Tuesdays & Wednesdays: Zumba

Tuesdays: Noon–1 p.m., in gym (Bldg 461). Wednesdays: 5:15–6:15 p.m., at the Rec Hall (Bldg. 317). Registration required, Ext. 2873.

Tuesdays: Toastmasters

Two monthly meetings: 1st & 3rd Tuesdays, 5:30 p.m., Bldg. 463, Room 160. Guests and visitors welcome. [www.bnl.gov/bera/activities/toastmasters/](http://www.bnl.gov/bera/activities/toastmasters/).

Tuesdays & Thursdays: Aerobic Fitness

5:15–6:30 p.m. in the Rec. Hall (Bldg. 317). \$5 per class, or 10 classes for \$40. Kathy Schoenig, Ext. 2818.

Tuesday & Thursday: Aqua Aerobics

5:30–6:30 p.m., Pool (Bldg. 478). Registration required, Ext. 2873.

Wednesdays: Ballroom Dance

5:30, 6:30, 7:30 p.m., Brookhaven Center (Bldg. 30). Vinita Ghosh, Ext. 6226.

Wednesdays: Play Group

10 a.m.–noon at Rec Hall (Bldg. 317). Parents meet while infants/toddlers play. For events, see <http://www.meetup.com/BNL-Playgroup>, or call Ext. 2873.

Wednesdays: Yoga

Noon–1 p.m., B’haven Center (Bldg. 30). Free. Ila Campbell, Ext. 2206, [ila@bnl.gov](mailto: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 Cycletrons Club

5 p.m., Brookhaven Center. First Thurs. of month. Andy Mingino, Ext. 5786.

Thursdays: Reiki Healing Class

Noon–1 p.m., Call for location. Nicole Bernholz, Ext. 2027.

Thursdays: Postdoc Social Night

6:30 p.m. ASAP Lounge (Bldg. 462). [www.bnl.gov/asap](http://www.bnl.gov/asap).

Thursday: Judo Class

7:30 p.m. Gym (Bldg. 461). Tom Baldwin, Ext. 4556.

Fridays: Family Swim Night

5–8 p.m. Pool (Bldg. 478). \$5/family. Ext. 2873.

**Radoslav Adzic** from *p. 1*  
...laboratories and industries, explained Adzic.  
“We have been collaborating with N.E. Chemcat for a couple of years,” Adzic said. “They spent several weeks in our labs, during which they went over the catalyst preparation so they were able to reproduce the results and even perfect the catalyst, make large-scale quantities that can satisfy industrial requirements for fuels cells, and investigate the properties of the catalyst under real conditions of catalyzation in a fuel cell.”  
This electrocatalyst presents a novel, scientific remedy to a commercial roadblock — how to make platinum electrocatalysts more durable and affordable. Though platinum is an extremely effective electrocatalyst in the fuel cells of electric vehicles, its cost and its lack of durability and chemical stability make it a difficult sell as a commercially viable green energy solution. To preserve the benefits of platinum while mitigating its negatives, Adzic and his lab devised a new electrocatalyst by coating a hearty palladium alloy nanoparticle with a platinum monolayer, or single atom-thick, shell. Hy-

# The 2012 RHIC/AGS Users’ Meeting, 6/12 – 15 ‘Frontiers of RHIC Physics,’ RSVP by 6/8

The 2012 Relativistic Heavy Ion Collider (RHIC)/Alternating Gradient Synchrotron (AGS) Users’ Meeting will be held at BNL from Tuesday to Friday, June 12 to 15. The theme of this year’s meeting is “The Frontiers of RHIC Physics,” a topic of great importance to the RHIC community. The meeting will be focused on the latest results from a variety of running conditions that have been explored in recent years, as well as the possibility of extending RHIC physics to uncharted territories. All are encouraged to attend the workshops on Tuesday and Wednesday to learn and share different points of view on the future of RHIC.  
**Day One:** Physics workshops on heavy ion and spin physics. These two workshops will run in parallel.  
**Day Two:** Workshop on both machine and detector upgrades and a workshop on eRHIC. Topics will include overviews of current machine and detector plans, discussion of the long-term future of heavy ion physics at RHIC, the decadal plans of the existing experiments, and discussions of machine and detector options for eRHIC.  
5-6 p.m. *Distinguished Lecture.* The day will conclude with a one-hour distinguished lecture on “The Future of Nuclear Physics in the U.S.” from DOE’s Timothy Hallman, Associate Director of Science for Nuclear Physics.  
**Day Three:** The Plenary Session will consist of presentations from all RHIC experiments, BNL management, and funding agencies. It will also include talks on machine operations, thesis awards, and the accomplishments of the National User Facility Organization (NUFO).  
**Day Four:** The last day of the Plenary Session will focus on the outlook of RHIC physics and machine upgrade plans towards the future physics at RHIC and eRHIC. It will also include a summary of UEC activities, UEC election results, and poster awards.  
To register and obtain more information, please go to: [www.bnl.gov/aum](http://www.bnl.gov/aum).

Arrivals & Departures

— Arrivals —

Benedetto Di Ruzza..... Physics

Marco Musardo ..... Photon Scis

Olivier Tresca ..... Physics

— Departures —

Jian Hong .....Sust En Technols

Jayesh Shah ..... Photon Scis

*Daubechies* from *p. 1*  
...first woman to receive the NAS Award in Mathematics for excellence in published mathematical research. She is a member of the American Academy of Arts & Sciences, the American Mathematical Society, the Mathematical Association of America, the Society for Industrial & Applied Mathematics, and the Institute of Electrical & Electronics Engineers. — Jane Koropsak

drogen/oxygen fuel cells that include the catalyst use hydrogen as a fuel and produce electricity, with water as a byproduct.  
“There was actually a lot of skepticism regarding this concept, but we now have proven that the stability and activity of the catalysts are such that they can be applied in a real fuel cell for electric cars,” said Adzic. “We hope that N.E. Chemcat will be successful in marketing this catalyst.”  
Adzic graduated with a B.S. in chemical technology and a Ph.D. in chemistry from the University of Belgrade in 1965 and 1974, respectively. He first came to the Lab in 1979 as a visiting scientist and was hired as a senior research associate in 1992. Adzic was named chemist in 2001 and senior chemist in 2005. Since coming to Brookhaven, Adzic has won a number of awards, including the Medal of the Serbian Chemical Society in 1997, Brookhaven Lab’s Science & Technology Award in 2005, and the 2008 DOE Hydrogen Program R&D Award, in recognition of his work with electrocatalysis for fuel cells. He was elected a Fellow of the Electrochemical Society in 2005. — Natalie Crnosija

*Tech Maturation* from *p. 1*  
...offer the promise of a deeper understanding of the brain and the diseases that affect it and other organs. A first prototype of the RatCAP has been built and has demonstrated impressive performance as a PET scanner. Furthermore, it has demonstrated that it can provide complementary data on behavior and neurochemistry that were never before possible, opening up exciting new possibilities in neuroscience. The RatCAP technology was funded in 2011 through the BNL Technology Maturation Program.  
Schlyer said the commercial potential of the device is “significant,” based on the large response to a recent publication in *Nature Methods*, by the scientific and lay press, and multiple inquiries by prospective users.  
Vaska commented, “Although biomedical device companies have also shown interest, we believe that they have not yet committed because our system has not been available to other researchers who could corroborate our results and help demonstrate its full potential. But a major stumbling block to the dissemination of the system is that although it works in the hands of its designers, two key elements must be improved before other labs can use the device — the data acquisition module which is outdated and unreliable, and data processing software which is not user friendly, inhibiting routine use.” These problems may be solved with continued funding for development.

**Breast Imaging System**  
The second technology to be advanced through this program is the breast imaging system. This device allows PET and MRI imaging of the breast to be done simultaneously.  
Schlyer said, “We believe that this combination of imaging information will significantly enhance the diagnostic capabilities for the detection of small breast cancer lesions and in the future may allow us to significantly reduce unnecessary biopsies. MRI is very sensitive but not very specific

while PET is much more specific, but not as sensitive as the MRI. The combination allows the best of both worlds.” This technology is being advanced in cooperation with Aurora Imaging Technologies who produces the commercial dedicated MRI breast imaging system into which the BNL PET insert can be placed.  
**Wrist Scanner Project**  
The third project is the wrist scanner which was first funded in 2010, and funding was renewed last year. Schlyer explained that each PET study for the detection of cancer or other diseases is rich with kinetic data most of which is lost in the typical clinical or non-invasive PET study where radioactivity concentration is measured in an organ of interest.  
“In our proposal, we will develop a small tomograph allowing simple generation of an accurate input function for PET radiotracers,” he said. “Preliminary studies in our laboratory have shown that this approach and design are quite feasible. Upon completion of our development of this scanner, we will generate an arterial input function that greatly reduces biohazards associated with arterial blood withdrawal as well as the discomfort associated with arterial cannulation. If successful, this will move us closer to being able to do quantitative PET tracer studies in clinical research and diagnosis with reduced risk and discomfort to the patient and medical personnel who carry out the PET scans.  
“It will also move us closer to being able to translate new radiotracers to the clinical setting, where they can be applied to addressing important medical problems and to facilitate the development and application of new drugs and other therapies,” Schlyer said. “A significant part of this is moving the device from a prototype, which requires considerable expertise to operate, to a device which can be used easily in the clinic. The Technical Maturation Funding has helped in this effort and has made the device attractive enough to an outside company

that they are considering funding the further development of this device into a commercial device. Thus the key goal of this proposal is to upgrade these two facets of the system, enabling researchers from the broader academic and biotech areas to see for themselves the value of our technology.”  
**Program Logistics**  
With the deadline for proposals being June 18, preliminary selection notification will be on June 22. Each proposal selected as a finalist will make a brief presentation to the selection committee on its proposal and the potential for impact. These presentations are scheduled for June 29. Final award notification will take place on July 3. The applications and more details of the recently issued 2012 technology maturation call can be found at [www.bnl.gov/techtransfer/tmfjp/](http://www.bnl.gov/techtransfer/tmfjp/).  
Since the BNL Technology Maturation program began, 21 technology maturation proposals have been funded, resulting in many significant advances of the inventions to deployment.  
In addition to RatCAP, the breast imaging system and the wrist scanner, the platinum core-shell monolayer electrocatalyst technology (*See Radoslav Adzic on p. 1*) was significantly advanced through maturation funding, resulting in a practical production process to make the materials in volume. This technology was licensed to N.E. Chemcat Corporation, a joint venture of BASF Group and Sumitomo Metal Mining Co., based in Japan. Products made under this license are already being supplied for fuel cell production in vehicle applications. Technology maturation funding also supported the technology development work for the superconducting magnetic energy storage (SMES) project, which now has received continued funding provided by the Advanced Research Projects Agency-Energy (ARPA-E) in a major collaborative project with ABB, Inc. of Cary, N.C., and SuperPower, Inc. of Schenectady, N.Y. — Kay Cordtz





Roger Stoutenburgh 0220512



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Roger Stoutenburgh 0250512

# From ‘Hot or Not?’ to ‘The Green Cupcake’ Winning Projects at BNL’s 2012 Elementary School Science Fair

More than 540 science projects from 118 Suffolk County schools were entered into the 2012 Elementary School Science Fair, sponsored by BNL. The Lab’s Office of Educational Programs coordinated the fair, which was held at the Lab on May 5. Brookhaven scientists as well as volunteers from Stony Brook University and local elementary school teachers judged the projects, which focused on

topics ranging from “Hot or Not?” to “The Green Cupcake.” The first-place winners are:

- **Miss Brereton’s Kindergarten Class**, East Kindergarten Center, Brentwood School District, for the project “Hot or Not?”
- **Eva Scotto DiMaso**, first grade, Fort Salonga Elementary School, Kings Park School District, “Can a Marble Ride a Loop-De-Loop Roller Coaster?”

- **Brooke Brown**, second grade, John Pearl Elementary School, Connetquot School District, “Warming Up with Common Recyclables.”
- **Hannah Fioramonti**, third grade, Pines Elementary School, Hauppauge School District, “Salamander Style.”
- **Luke Verity**, fourth grade, Burr Intermediate School,

Commack School District, “Naturally Green ‘Repel-Ant.’”

- **Brendan Gregory**, fifth grade, Raynor Country Day School, Private, “Which Wood Would? Which Wood Wouldn’t?”
- **Sophia Kujawski**, sixth grade, William T. Rogers Middle School, Kings Park, “The Green Cupcake.”

— Liz Seubert



Roger Stoutenburgh 02610512

## 25,000...and Counting! Devon Holmes Has BNL Life No. 25000

Every Lab employee is assigned a life number. These numbers are exactly what their name implies — a unique number issued to employees for life, used to identify individuals for benefits and training purposes. Life numbers are assigned chronologically and have been issued since the Lab’s inception. According to original logbooks, Philip Morse, the first Lab Director, holds life number 1, issued in 1946.

In March 2012, the records group in the Human Resources and Occupational Medicine Division (HR-OMC) assigned life number 25000 to new police recruit Devon Holmes of the Laboratory Protection Division. In 2008, Photon Sciences Directorate employee Michelle Scaduto was featured in a story on receiving life number 24000. “One thousand new hires since 2008 is representative of Brookhaven’s continued commitment to our science mission and development of our resources to achieve excellence,” said Robert Lincoln, chief human resources officer.

Holmes said that he showed up for his first day of work very excited about his new career. “My co-workers took notice of my life number almost immediately,” said Holmes. “I’m a

pretty quiet guy so at first I was a little embarrassed by the fuss, but then I realized that this is pretty important marker in Lab history. Now I’m thinking this is truly my lucky number.”

Holmes recently returned from Afghanistan after serving in the United States Air Force Security Forces, so he is no stranger to rigorous training.

“BNL Captain Dave Peter is an amazing trainer,” said Holmes. “He takes his job very seriously and has repeatedly reminded me how safety always comes first — safety of employees and visitors and protection of the site.”

Holmes commented that his supervisor, Lieutenant Robert Gerry, has also provided him with important leadership during his training period. “I fully complete my training in June, but I have already learned so much in the few short weeks since I arrived here,” he added.

But, this new police recruit said he already has fond memories of the Lab. “My parents, Gary and Holly Olsen, work here, so as a kid I visited the pool and went to softball games,” he said. “I look forward to a new career and I plan to be here when the Lab issues life number 26000!”

— Jane Koropsak

## Save the Date Safety Day: Wednesday, 6/6

Safety Day 2012 is Wednesday, June 6, and the focus for this year is Safety and Operational Excellence.

From 11:00 a.m. until 1:30 p.m. in Berkner Hall (Bldg. 488), join the Safety Group and fellow BNers to learn about safety practices; talk about goals, physical therapy, and hurricane preparedness; and share success stories and lessons learned. Visit exhibits such as the Failed Equipment Display, AED/CPR Training, the Balance Machine, the Driving Simulator, the Ergonomic Office and Lab Equipment Demo, and Fire Extinguisher Training. See the Children’s Drawing Contest.

Outside participants include 3 Gals Industrial, BKN Supply, LLC, Brookhaven Town and Riverhead Town, Coast Guard Auxiliary, Cornell Cooperative Extension, Garlock Safety Systems, Grainger, HILTI, Home Depot, HumanScale/Waldner’s, Kramer Sales, LI Occupational & Environmental Health Center, MSC Direct, Rocky Point Cycle, and Steelcase.

Learn more at [www.bnl.gov/safetyday](http://www.bnl.gov/safetyday).

**Safety** makes science possible  
at Brookhaven National Laboratory  
<http://intranet.bnl.gov/safety>

### IBEW Meetings on Tuesdays

The monthly IBEW meetings held at Knights of Columbus Hall in Centereach now will be held on Tuesdays, not Mondays, until further notice. The next meeting will take place on Tuesday, June 26, and will be announced as usual in the calendar on p.3 of the Bulletin.

### Testing of New Site Emergency Alert Sirens To Begin 5/29

The Lab’s Office of Emergency Management will begin testing the new electronic site siren Tuesday, May 29, through Friday, June 1, as the contractor finishes the installation. Additional updates regarding dates and times will be provided to all employees by email and the intranet homepage.

As part of next week’s testing, the new siren may sound at varying times with a variety of signals — a steady siren, an intermittent siren, and several pre-recorded voice commands. The Lab community should not be alarmed during this testing.

The technology for the existing siren system — which is tested every Monday at noon — is obsolete, and it has become difficult to find replacement parts. In addition, the device manufacturer no longer provides service. The new system incorporates improved technology and capabilities, and will be audible throughout the site.

The siren signals will remain the same: a steady siren means everyone should go to the indoor building assembly area, while an intermittent siren means everyone should evacuate the site immediately. The only changes will be to the sound of the siren tone (electronic as opposed to mechanical) and that voice messages can be issued through the system. Each siren is powered by solar energy and a rechargeable battery system, which relieves the dependency on site power during emergencies.

### CALENDAR

Today, 5/25

**Ceremony for Memorial Day**  
Noon. Flagpole at Brookhaven Center. All are invited to join the Brookhaven Veterans Association for a ceremony to recognize the sacrifices of service men and women.

**Culture of China Showcase Event**  
4:30-5:30 p.m. Berkner Hall. To celebrate Asian Pacific American Heritage Month, BERA’s Asian Pacific American Association will organize a program of music, dance, and oratory performances by professionals and local artists to showcase the culture of China. All are invited to this free event, open to the public. Visitors to the Lab of 16 and older must carry photo ID. See [www.bnl.gov/bera/activities/apaa/](http://www.bnl.gov/bera/activities/apaa/).

**Saturday, 5/26**

**\*Cafeteria Closed Through 5/28**  
Brookhaven Center open for limited menu, 7:30 a.m.-2 p.m., while cafeteria is closed for start of renovation. See p.4.

— WEEK OF 5/28 —

**Monday, 5/28**

**Memorial Day, Lab Closed**  
No Bulletin this week.

**Sat., Sun. 6/2, 3**

**\*Cafeteria Closed 6/2, 6/3**  
7:30 a.m.-2 p.m. Brookhaven Center open. See p.4.

— WEEK OF 6/4 —

**Wednesday, 6/6**

**\*Safety Day**  
11 a.m.-1:30 p.m. Berkner Hall. See notice at left.

**Thursday, 6/7**

**\*\*Surfing With Wavelets’ Talk**  
4 p.m. Berkner Hall. Ingrid Daubechies, James B. Duke Professor of Mathematics at Duke University. See p.1.

— WEEK OF 6/11 —

**Tuesday, 6/12**

**2012 RHIC/AGS Users’ Meeting Workshops.** See p.2.

**Wednesday, 6/13**

**\*2012 RHIC/AGS Users’ Meeting Workshops.** See p.2.

**\*Distinguished Lecture by DOE’s Timothy Hallman**  
5-6 p.m. Berkner Hall. Timothy Hallman, DOE’s Associate Director of Science for Nuclear Physics, will speak on “The Future of Nuclear Physics in the U.S.” All are welcome. See p.2.

**Honoring Flag Day, 6/14**

The Brookhaven Veterans Association (BVA) will be collecting American flags that are no longer fit to serve as a symbol of the U.S. Bring flags to Berkner Hall on Thursday, June 14, from 11 a.m. to 1 p.m. The BVA will dispose of it properly.

**Gym, Pool, Weight Room Closed Saturdays**

The gym, pool & weight room will be closed on Saturdays between this Saturday, May 26, and Saturday, September 1.



## Classified Advertisements

Current job openings and a statement of job placement policy at BNL are available on the homepage at [www.bnl.gov/HR/careers/](http://www.bnl.gov/HR/careers/). To apply for a position, go to [www.bnl.gov](http://www.bnl.gov) and select "Search Job List." For more information, call Ext. 2882.

### Motor Vehicles & Supplies

08 JEEP GRAND CHEROKEE LAREDO – 41K mi. V6, excel cond, maint at dealer incl 30K service, orig owner, pic <http://tiny.cc/6k88dw>. \$16,500 neg. 995-0816 10a-7p.  
05 JEEP WRANGLER 4X4 – 86K mi. a/c, c/c, 6/spd manual tranny, hardtop, running boards, tow package, incls 1 yr warr. \$11,900. Sue, Ext. 5711.  
03 FORD TAURUS SES – V6 4dr, 108K a/t, p/w, p/l, a/c, abs, cd, gray, leather, well maint.,, orig owner, clean title, needs some work. \$3,800 neg. Ext. 7950, 764-2282.  
01 FORD FOCUS – 120K mi. excel running cond, well maintd, 6/disc CD changer w/remote. \$2,500 neg. Kiamesha, Ext. 8593, 317-8714 or [newsom@bnl.gov](mailto:newsom@bnl.gov).  
99 MERCEDES SLK – 164K mi. silver, 5spd stick shft, new brakes, runs well. \$3,000. Mark, Ext. 3812.  
98 DODGE DAKOTA – 0 mi. 2wd, new short block, water pump, starter, clutch, tires, recent front end work, std trans. \$3,900. Vic, 375-6520.  
98 FORD MUSTANG GT – 106K mi. blk, leather, 4.6 L V8 eng, 2dr, 5spd stick, c/c, ABS, 17" whl, cd, 400W amplifiers, gd cond, bot damaged body. \$1,500. 630-915-9928.  
98 NISSAN MAXIMA – 137K mi. blk, new a/c, p/w, p/l, stick shift, 4/dr, no alarm. \$2,600 neg. Warren, Ext. 2080 or [wjappe@gmail.com](mailto:wjappe@gmail.com).  
84 CLASSIC CORVETTE – 13K mi. MINT cond, 4/spd manual, red, stored in gar on lift. \$14,000 neg. Ext. 3555.  
76 CHEVY CORVETTE – 79K mi. cust. Can-Am wide body, a/t, Yellow PGP Paint, pics, Chrome Crgrs new tires, runs well, needs some work. \$10,000 neg. 602-614-6729.  
JEEP WRANGER SOFT TOP – Bestop Spice std 2dr shld fit 97-06, Top, left, Rt and rear window gd shape. No hardware, \$250/neg. Ed, Ext. 7251, 516-924-4299.  
RADIAL TRUCK TIRES – used but still has tread; set of 4 Continental Contitrac TR LT275/70R18 125/122 ms, came off a '08 Ford F250. 404-8109.  
RIMS W/TIRES – 4 RT6 Enkei 360 Perfect Rims; 6 Lug; used on a Dodge Durango for 1/summer, excel cond, less than a yr old; 18" tires, ask/\$700, pd/\$1,800. 813-6583.

### Boats & Marine Supplies

14' VANGUARD LASER 2 SAILBOAT – like new, w/trailer, main and jib are in excel shape, this is a 2/person racing dingy! \$2,850 neg. John, Ext. 3406.  
4 HP JOHNSON OUTBOARD – short shaft w/enclosed fuel tank on top, '99, but has less than 10 hrs on it, v/clean, \$400/firm. Louis, Ext. 4417 or [levers@bnl.gov](mailto:levers@bnl.gov).  
**Furnishings & Appliances**  
BABY CRADLE – Safety lock pins restrict cradle from rocking; solid wood; incls a 1" pad, \$40. Ying, Ext. 5360 or [ylo@bnl.gov](mailto:ylo@bnl.gov).  
COMPUTER CHAIR – brand new, lg, blk leather, Sealy Posturpedic, adjustable, orig Staple receipt/\$163, ask/\$60. 849-3444.  
COMPUTER DESK W/HUTCH – Oak finish desk w/file drwr, tower storage, 29" h, 53W, 22.5D. Htch 27"H, 53W, 11.5D, pics, \$100, u-pic-up. Ext. 7270, or [pankows@bnl.gov](mailto:pankows@bnl.gov).  
DINING SET – table 64"x44",expands to 100" w/two 18" leaves, 2/smoked glass top inserts, 6 chrs 2/w/arms & upholstered seats, v/gd cond, pics, \$250/obo. 655-7991.  
ENTERTAINMENT UNIT – Oak, holds up to 36" TV, built-in CD Rack; glass display case w/light; 2/encl cabinets, excel cond, pics, ask/\$150. Ext. 3102 or [zendzian@bnl.gov](mailto:zendzian@bnl.gov).  
GARAGE DOOR – white w/glass criss cross pattern, 8'x8' nice shape, insulated, pd/\$1800, ask/\$250. Jack, Ext. 7939.  
KING SIZE MATTRESS – and pillow-top, mattress w/double twin box springs/2yrs old and in a mattress protector, ask/\$500. Kerry, Ext. 3102 or [zendzian@bnl.gov](mailto:zendzian@bnl.gov).  
LIVING ROOM SET – Microfiber Taupe Couch & Loveseat, great cond, ask/\$250, pics. Wendy, [williams@bnl.gov](mailto:williams@bnl.gov).  
MOVING SALE – Haier washer, king mattress, queen bed frame, desk, dresser, toaster, baby stuff, kitchenware, more, price, pics: <http://tinyurl.com/7ffo3jf>. 995-0816 10a-7p, [jingostar1980@hotmail.com](mailto:jingostar1980@hotmail.com).  
SIDE BY SIDE REFRIGERATOR – w/ice/water dispenser; glass shelves; crisper drawer, white, 69 1/2 x 35 3/4 x 31 1/4. 404-8109.

### Audio, Video & Computers

CANON 40D CAMERA KIT– DSLR kit, mint, super low shutter counts, <4k, kit lens 28-135mm IS, w/HOYA HMC UV, protector, extras \$650. 995-0816 10a-7p or [jingostar1980@hotmail.com](mailto:jingostar1980@hotmail.com).  
GAME OF THRONES DVD SET – all 1st season on HBO, 5 DVDs in set, 2 one hr episodes per DVD, plus features, based on best-selling novel, \$20. Jim, Ext. 2432.

SOUND CARD – Dynex 5.1 surround sound audio PCI card, microphone/line in, headphone/ front/rear/subwoofer/digital optical out, \$20. Jim, Ext. 7460.  
VIDEO CARD – ATI Radeon X800XL, CDDR3 memory 256 MB, PCI express card for windows xp or 2000, \$30. Jim, Ext. 7460.

### Sports, Hobbies & Pets

'04 KODIAK K235 CAMPER – excel, 23', slide out, dinette, couch, 2 q/beds, m/wave, oven, stove, full ba, heat, a/c, awning, antenna, cble, AM/FM/CD, slps 6+ \$8500. Ext. 7978.  
FISHING CLUB NEEDS MEMBERS – Club meeting to promote fishing trips, need members to start up, come to Berkner Hall Rm B at noon on Tues, May 29th. Cris, Ext. 5341 or [caccavale@bnl.gov](mailto:caccavale@bnl.gov).  
FLY ROD – 9' 5wt 4 pc Ross Essence FW like new, v/high quality fast action, for trout, sunfish, sm bass, w/codura travel tube, ask/\$80. Scott, [sbronson@bnl.gov](mailto:sbronson@bnl.gov).  
GOLF TRAINING DRIVER – SKLZ Refiner dual adjaible hinged training driver, left handed, elims hooks & slices, like new, \$40. 365-9822 or [mmcneill@bnl.gov](mailto:mmcneill@bnl.gov).  
LONCIN 150 QUAD – runs well, brand new batt, re-freshened carburetor, great tires, \$500. Heather, Ext. 4138.  
WOOD SHAVINGS – 60-lb bags, \$6 per bag, sold in bulk, local delivery and pick-up, Ridge area. Wayne, 516-818-4295.

### Tools, House & Garden

2 SEALED SKYLIGHTS – they do not open, gd cond, 30 "x 45". 404-8109.

### Miscellaneous

AUDI & VW REPAIR – Certified VW tech w/7 yrs dealer exper, all types of repairs, maint. to eng diag. Dealer parts only, call for est. 484-9888 or [wfielitz@gmail.com](mailto:wfielitz@gmail.com).  
BABY GRACO SWING-GIRLS – used lightly, in v/gd cond/\$60, pics avail upon request. Erika, [ereyes@bnl.gov](mailto:ereyes@bnl.gov).  
CHILDREN'S PICNIC TABLE – Step 2 Naturally Playful Picnic Table, excel cond, pics. Wendy, [williams@bnl.gov](mailto:williams@bnl.gov).  
CIRQUE DU SOLEIL -ZARCANA – 3 tickets, June 10, 2pm, Radio City Music Hall, Sect 3RDMZ4 Row B, Seat nos 411, 412, 413, pd/ \$219.45 w/charges, ask/200. Trish, 344-6044.  
HANDY HELPERS – Need help with a party? Whether it be decorating, serving or cleanup, call. 445-4027.  
INFANT CAR SEAT & BASE – pink/ brown/\$35, infant tub/\$5 infant swing/\$15, all v/clean & excel cond. Ext. 7007, 909-3622.  
MEDELA NURSING PUMP – double pump w/all accessories, \$150. Nina, Ext. 5894, 813-0497 or [vbri1@aol.com](mailto:vbri1@aol.com).  
WEDDING DRESS – white, brand, sz 10, spaghetti straps, cathedral train, never worn to a wedding, orig/\$1,200, will sell for \$120/obo. Ext. 3621.

### Yard & Garage Sales

CENTER MORICHES – Sat, May 26, 9am, (rain date Sun 27) kitchenware, books, clothes, furn, f/p, piano & more! Cynthia Lane btw Old Neck/Senix. Ext. 3116.

### Happenings

DINNER/SHOW OUTING – to see Jonah at Sight n Sound Theatre in PA on Sat, Oct 13, 2012. Deposits by May 30, call for details. Kim, Ext. 2896, 399-3098 or [khayes@bnl.gov](mailto:khayes@bnl.gov).  
DRIVE ONE 4UR SCHOOL – Miller Place HS, June 2, 2012, 10a-4p, support MP Friends of the Arts, test drive a new Ford, Ford donates \$20 for ea car driven, for flyer contact. Ext. 7918 or [diffilip@bnl.gov](mailto:diffilip@bnl.gov).  
MATH/SCIENCE CAMP – Quinipet Camp & Retreat Cntr, [www.quinipet.org/](http://www.quinipet.org/), Shelter I., for children ages 11-14, Aug/25-31. \$800 (sibling discounts avail.) Registration: <http://sigmacamp.com/registration/>. Contact: 371-3271, [info@sigmacamp.com](mailto:info@sigmacamp.com).  
PHOTO PRESENTATION: Retiree Richard Witkover will present a multi-media program "Tanzania Photo Safari" at the Riverhead library, 6/18 @ 6pm, call to register. 727-3228.  
PLANT SALE – L.I. NATIVE PLANTS – June 1, 2 and 8, 9 (rain or shine) at the Suffolk County Community College Eastern Campus greenhouse, 121 Speonk-Riverhead Road, Riverhead. Ext. 5090.  
'THE KING AND I' AT NFCT – at North Fork Community Theatre in Mattituck, Thur, Fri, Sat, 8pm, Sundays 2:30pm ,thru 6/3. Tickets \$20 at <http://www.nfct.com>. Laura, Ext. 2520.  
WOUNDED WARRIOR BIKE TOUR – July 21 - WWP bike tour from Amagansett to Sag Harbor & return, 30 miles, or to Montauk, 60 miles. Looking for people to support this effort and ride/fund raise. Michael, Ext. 5891 or [mpaquette@bnl.gov](mailto:mpaquette@bnl.gov).

### Wanted

BABYSITTER – After school sitter in SWR for 5th grader for school year 2012-2013; must have car; some driving to soccer/ lax practice. 258-4607.  
BLACKBERRY – and accessories, charger, etc. Liz, Ext. 2346.  
FIREARMS – no matter what cond, new or old, fair \$\$\$ paid depending on cond. (Note: no firearms are brought on BNL site) Joe, 487-1479.  
LCD FLAT SCREEN MONITOR – 17" or higher, Ext 7603. Lokesh, [lokesh@bnl.gov](mailto:lokesh@bnl.gov).

NEED GARDEN TOOLS SHARPENED – need someone who can sharpen 2 pairs of rose clippers and 1 pruning shears. Nancy, 516-241-4598.

POP TOPS FROM SODA/BEER CANS – Collecting for Shriner's Children's Hospital, please send or drop off @ Bldg 400A, Transportation Office. Paula, Ext. 2535.

ROLLER HOCKEY EQUIPMENT – in gd cond, for 10 yr old. Charlie, 344-4736 or [ccardone@bnl.gov](mailto:ccardone@bnl.gov).

### Free

2012 DOCUMENTARY MOVIE – "The Courage To Believe" has won many top awards at US international film festivals. George, [georgewei@bnl.gov](mailto:georgewei@bnl.gov).

KITTENS – 3 b/w kittens; 4 wks old; will be spayed/shots & ready for adoption by 6/20, adopt 1 or all, pics avail. Mary, Ext. 6344 or [phraner@bnl.gov](mailto:phraner@bnl.gov).

TOSHIBA TV – 36", approx 5yrs old, excel cond/pic, heavy, u-pic-up. Robert, Ext. 5217 or [reger@bnl.gov](mailto:reger@bnl.gov).

### Lost

BUSINESS CARD WALLET – Left in Berkner Hall Auditorium on 5/22, it contains my business cards. Please call or return to the address on the card via inter-departmental mail. Thanks. Kimberley, Ext. 4151, 512-748-1438 or [elcass@bnl.gov](mailto:elcass@bnl.gov).

### For Rent

CANCUN, MX – Five Star Royal Resorts, Dec 1-8, Villa sleeps 6/\$1,100, suite/\$800 or 1 bdrm lockoff/\$600. 352-509-4265.

BELLPORT – 2 bdrm, 1 ba cape in Village, finished bsmt, wd flrs, stainless applis, use of all village amenities, avail 7/1. \$1,700/ mo. 516-650-0950, [gabgot@yahoo.com](mailto:gabgot@yahoo.com).

MANORVILLE – Victorian, on 2-acre lot w/ priv rd, family rm, library, fmal d/r, kitch, 1 lg mstr bdrm, 3 add'l bdrms, 3 b/rms, bsmt, attic, 2-car gar, more. \$4,000/mo neg. 603-5758.

MIDDLE ISLAND – Artistlake Dr, 1 big bdrm, upper flr, 900SF, new appli, decorations, 1 mo deposit, no pets, 5 min dr to Lab. \$1,125/mo. 516-637-1088.

MILLER PLACE – 3 bdrm bsmt apt, own a/c unit & thermostat, walk-in closet, big pantry plus utl, apt will split cost of heating hse, avail 7/1/12. \$1,350/mo. 917-716-8706.

MORICHES – ranch, 1/3 acre property, l/r, d/r, kitch, master bdrm w/full bath, 3 add'l bdrms, 2nd full bath, bsmt, yd. \$2,500/mo neg. 603-5758.

CENTER MORICHES – 3 bdrm hse, 2 bath, new kitch, cac, w/d, wooded bckyd w/deck, priv beach & boating rights, no smkg/pets, 9 mi to BNL. \$1,900/mo. Ext. 3116.

MANORVILLE – Victorian, on 2-acre lot w/ priv rd, family rm, library, fmal d/r, kitch, 1 lg mstr bdrm, 3 add'l bdrms, 3 b/rms, bsmt, attic, 2-car gar, more. \$4,000/mo neg. 603-5758.

MIDDLE ISLAND – Artistlake Dr, 1 big bdrm, upper flr, 900SF, new appli, decorations, 1 mo deposit, no pets, 5 min dr to Lab. \$1,125/mo. 516-637-1088.

MILLER PLACE – 3 bdrm bsmt apt, own a/c unit & thermostat, walk-in closet, big pantry plus utl, apt will split cost of heating hse, avail 7/1/12. \$1,350/mo. 917-716-8706.

MORICHES – ranch, 1/3 acre property, l/r, d/r, kitch, master bdrm w/full bath, 3 add'l bdrms, 2nd full bath, bsmt, yd. \$2,500/mo neg. 603-5758.

RIDGE – rm, all util/int incl. \$625/mo. Mim, 917-721-2277.

RIVERHEAD – 3bdrm, 2 full ba, Western Ranch, kit, dw, l/r, d/r, gar, new windws & furnace, quiet, lg prpty, c-d-sac, nr shops, no smkg/pets, refs & cc reqd, 1/mo sec+util. \$2,250/mo. 512-6470.

WADING RIVER – spacious new 1 bdrm apt, part furn, quiet area, incl cable, int, all utils, no smkg/pets. \$950/mo. 838-5879.

### For Rent or Sale

WEEKI WACHEE, FL – priv ranch on Gulf, 70m Orlando, 45m Tampa, fly Islip direct, nr beach/tennis/park, SW architecture, 3/ bdrm, 2/bath, d/r, f/p, 2gar, igp in lanai, fruit trees, see [review.oktane.net/HouseTour](http://review.oktane.net/HouseTour). \$450/wk., or \$120,000 neg. 344-5537.

CALVERTON – Move Right In, this charming newly renov cape has 2bdrms, 2baths, kitch, d/r, lg l/r w/vaulted ceilings nestled in a quiet neighborhd, just minutes away from all. \$1,750/mo, or \$259,900 neg. Jenn, 860-591-2772.

### For Sale

EAST PATCHOGUE – Cape 125 x 200 lot, Taxes \$5500 see <http://tinyurl.com/6qc9yww> details. \$320,000. Colleen, Ext. 4919.

SHOREHAM – 3 bdrm, 1.5 bath colonial on cul de sac, updated bath & kitchen w/ ss applis, new w/d, f/p in den, lg wood deck and shed, gar, 10 min from Lab. \$344,000. Andrea, Ext. 3347, 744-8793.

### Services

A list of services of all sorts performed by BNL employees and their immediate family members is available on the intranet homepage under "See all ads." These services are neither screened nor recommended by the Bulletin. They cannot be accessed from off-site. To get them emailed or a paper copy sent, call Ext. 2346 and leave an address or contact [Iseubert@bnl.gov](mailto:Iseubert@bnl.gov).

## Know Someone Who Needs a Job?

## BNL to Participate in Job Fair For Town of Brookhaven, 6/5

BNL's Human Resources & Occupational Medicine Division will be among the businesses and institutions with recruitment tables at the Town of Brookhaven Job Fair on Tuesday, June 5, from 4 to 7 p.m. at Brookhaven Town Hall, 1 Independence Hill, Farmingville. The event is free, and all are welcome. Free 15-minute workshops will be also be presented on topics that include Personal Image Development, Interview Skills, Negotiating Compensation, Starting a Business, Resume Writing, and LinkedIn 101.

For more information, call the Town's Office of Economic Development, (631) 451-6563.

## Cafeteria to Close 5/26–28 and 6/2–3

### Brookhaven Center Service Available, 7:30 a.m.-2 p.m.

The cafeteria in Berkner (Bldg. 488) will be closed from Saturday, May 26, through Monday, May 28, while the tile floor in the serving area is prepared for replacement. On these days, the Brookhaven Center (Bldg. 30) will offer a limited menu from 7:30 a.m. to 2 p.m. This closure is scheduled for the long holiday weekend to minimize inconvenience for the Lab community.

From Tuesday, May 29, through Friday, June 1, the cafeteria will reopen temporarily with a full menu and normal hours. Because the floor repair in the serving area will not be complete, some parts may be rough and other parts restricted. Please obey all warning signs and follow instructions about where to walk and which areas to avoid.

On Saturday, June 2, and Sunday, June 3, the cafeteria will close for the completion of the floor replacement project. Again, the Brookhaven Center will offer a limited menu on those days, 7:30 a.m.-2 p.m.

The cafeteria is scheduled to reopen with a full menu and regular hours on Monday, June 4.

## Right and Wrong Ways To Dispose of Used Motor Oil

*By Peter Pohlot, Pollution Prevention Coordinator, and Steve Ferrone, Facilities & Operations Environmental Compliance Representative*

You can save money by changing your car's motor oil yourself — and saving money is great. But dumping oil on the ground or abandoning a container of oil isn't just a bad idea — it's illegal. Unfortunately, this still happens too often on BNL property — posing many challenges and costs.

A few times each year, staff from the Lab's Site Resources and Environmental Protection Divisions find abandoned motor oil among other improperly dumped items, including washing machines, refrigerators, toilets, household chemicals, TVs, BBQ cylinders, and once even a rusted 275-gallon fuel oil tank in a construction dumpster.

In order for the Lab to manage unknown materials properly and legally, analytical testing may be required. The cost for analytical sampling is about \$500 per sample (and sometimes more) — plus \$100 for labor. This diverts money from research and infrastructure. Recently, several containers with an oily liquid were found near Bldg. 452, a frequent dumping area.

At BNL, it's easy for employees to dispose of their used motor oil properly. First, put the waste motor oil in a clean, sturdy, leak-proof container and keep it from mixing with anything else. Then bring it to the service station on site, M & L Auto Care at the intersection of Rochester and Rowland Streets, which will take it for free — but only during regular business hours. Please do not leave it outside the station after hours, or it will have to be treated as "unknown."

Or, you can take your used motor oil to your local service station, or any major brand auto parts store, such as Aid Auto or Pep Boys. They will accept it free of charge.

You may also take used oil and other household wastes to your town's Stop Throwing Out Pollutants (STOP) program. Most STOP programs accept pesticides, BBQ grill cylinders, paints, thinners, solvents, lead acid batteries, and pool chemicals. Most propane filling stations also accept BBQ cylinders.

The consequences of dumping the oil or other hazardous chemicals onto the ground, in dumpsters, or anywhere at the Lab include:

- An expensive clean-up that could involve bulk soil collection and disposal, monitoring wells, regulatory reports, and lost time.
- Potential contamination of our drinking water. We all sit atop Long Island's aquifer — the sole source of fresh water on the Island.
- Erosion of public confidence in the Lab's Environmental Management System.
- Staff time diverted to response and clean up.
- Possible safety incidents. For example, last year several containers with more than six gallons of used motor oil and antifreeze were crushed inside the compactor of a Lab garbage truck, resulting in a significant cleanup effort of the inside of the truck and disposal of oil-contaminated garbage. This required a half-day cleanup involving more than 10 employees and heavy equipment.

Our plea to you is this: give the Site Resources Division, the Fire Rescue Group, the Environmental Protection Division, and, most importantly, the Earth a break. Dispose of used motor oil and other pollutant waste in the right way.

On the Web, the Bulletin is located at [www.bnl.gov/bnlweb/pubaf/bulletin.asp](http://www.bnl.gov/bnlweb/pubaf/bulletin.asp). A calendar listing scientific and technical seminars and lectures is found at [www.bnl.gov/bnlweb/pubaf/calendar.asp](http://www.bnl.gov/bnlweb/pubaf/calendar.asp).

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