BROOKHAVEN BULLETIN

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BROOKHAVEN NATIONAL LABORATORY

Richardson Comments On ID Badges

Joseph Rubino

Energy Secretary Richardson

Following the fuel-cell ceremony last Friday (see story, right), Secretary of Energy Bill Richardson took questions from reporters.

In answer to a question about DOE's policy on ID badges, Richardson stated that employees at Brookhaven and similar DOE laboratories with limited classified activity will NOT have to wear badges in open, unclassified areas, no matter what their nationality. Employees who work in classified areas will continue to have to wear their ID badges in those areas.

Russel Reaver, Manager of the Safeguards and Security Division, reminds every employee that he or she should be able to produce the ID badge for identification if asked for it by security personnel. Any design changes to badges for foreign nationals have not yet been finalized, said Reaver.

Secretary Richardson Dedicates Fuel Cells

On March 31, Secretary of Energy Bill Richardson did the honors at a ceremony marking the installation of three fuel cells at BNL.

The fuel cells will be tested as part of DOE's strategic effort to make fuel cells a viable power-generation option in partnership with the Long Island Power Authority (LIPA), Plug Power, and the New York State Energy Research and Development Authority (NYSERDA).

If these prototype cells fulfill their estimated potential, just one fuel cell would be able to meet the electricity and hot water needs of the average home on Long Island.

The fuel cells are among the first to be installed for testing on Long Island

"As a nation, we need to diversify our energy sources."

— Secretary Richardson

Joseph Rubino

During the ceremony, BNL's Mark Toscano (far left), Energy Manager in Plant Engineering, received a plaque from Energy Secretary Richardson. Toscano was cited for his dedication to the fuel-cell project and for his effort, which was "directly responsible for making this project a success."

Joseph Rubino

Gathered in front of the fuel cells are (from left), GE Power Systems Chairman Robert Nardelli, Congressman Michael Forbes, Suffolk County Legislator Michael Caracciolo, LIPA Chairman Richard Kessel, Energy Secretary Bill Richardson, Senator Charles Schumer, BNL Director John Marburger, NYSERDA Chairman William Howell, and Plug Power Project Manager Matthew Cusack.

"BNL is a linchpin of the kind of future we want for Long Island."

— Senator Schumer

"This great team here at BNL has one more reason to be proud of its work."

— Congressman Forbes

by LIPA and Plug Power. Headquartered in Latham, N.Y., Plug Power made the prototype fuel cells and plans to market the first residential units in 2001. These fuel cells will be the size of a dishwasher and operate quietly.

Like a battery, a fuel cell creates electricity through an electrochemical process. The fuel cells on site take hydrogen-rich gas, first produced in a reformer, and combine the hydrogen with oxygen in air to make electricity. Water and heat are by-products. The fuel cells are located in Building 526, site of much of the Lab's research on energy sciences and technology.

— Mona S. Rowe

New Ways to Tag, Track Molecules

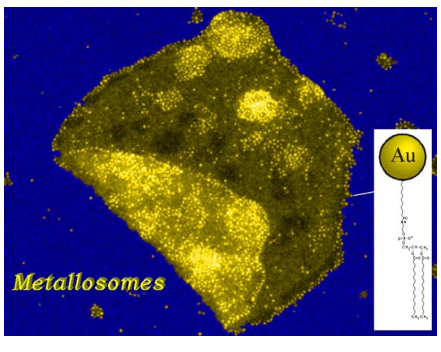
Scientists in BNL's Biology Department are developing a wide array of metallic tags to label proteins and other molecules. These tags will expand the toolbox scientists use to decode molecular structures, diagnose and treat diseases, and trace the movement of antibodies and drugs within cells.

"These labels help us tag and see microscopic cell components, and identify molecular sites," says James Hainfeld, a biophysicist who has specialized in this field since 1982 (see side-bar, right).

To date, Hainfeld, with coworkers, has developed and/or is using tags made from a variety of metals, including gold, platinum, iridium and palladium. "Each element has its own chemistry, so some of them form larger clusters, some of them smaller ones," Hainfeld says. The BNL group has made tags that range in size from four atoms to more than 100,000 atoms.

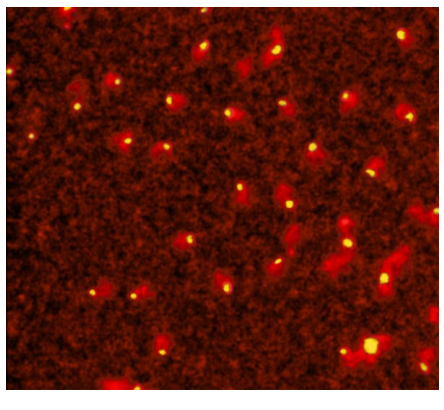
Once the scientists have produced a core with the number of metal atoms they need, they use organic chemistry methods to attach a variety of organic molecules around the outside. "By varying the organic molecules sur-

(continued on page 2)



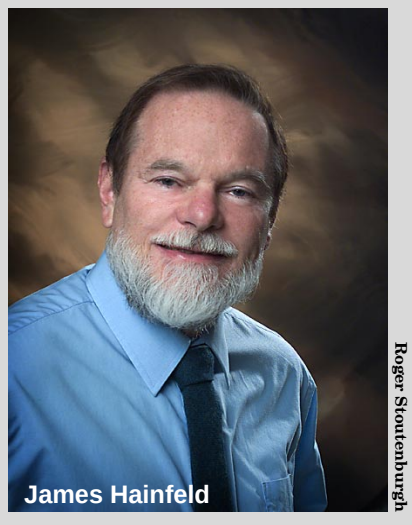
The image above shows a liposome vesicle studded with gold-cluster-labeled lipids (bright yellow dots). The image was produced using BNL's Scanning Transmission Electron Microscope (STEM) and is 256 nanometers wide. By labeling liposomes, scientists can trace the delivery of drugs to particular cells.

The image below shows gold clusters bound to the knob protein on adenovirus. This is the viral protein that binds with human cells to initiate infection, and is therefore a potential target for antiviral drugs. This image is also produced with STEM.



A Golden Opportunity

When other researchers asked James Hainfeld, Biology Department, how they could get their hands on the gold cluster molecules he d had created to label antibodies, he faced a dilemma: "To stop research and go into production was not really feasible," he said. So, he started a business to meet the demand.



Roger Stoutenburgh

James Hainfeld

Founded in 1990, the company, Nanoprobes Inc., now rents lab and office space maintained by a small-business "incubator" at the State University of New York at Stony Brook. "We have to pay, but the facilities are readily available and we have access to the libraries and other university resources," Hainfeld says.

Nanoprobes' eight employees supply researchers around the world with a variety of heavy metal cluster molecules that can be tailor-made to label proteins, peptides, oligonucleotides, small molecules and lipids. Many of the labeling molecules were first developed by Hainfeld at BNL. These molecular "tags," used in conjunction with electron microscopy and other imaging techniques, help researchers diagnose disease, track the movement of drugs within cells, and decode molecular structures.

Right now, says Hainfeld, most orders are small. "The production work is labor-intensive, so the profit margin is very low. We're just breaking even." But the venture has been profitable in another way: by generating an additional base for research funding, including grants from the federal government's Small Business Innovative Research program.

And company president Hainfeld, who serves mainly as an advisor, still works full-time at Brookhaven, where he has been in Biology since 1976. "We set up the company so it more or less runs itself," he says. He even had time to guest-edit September's special issue of the *Journal of Structural Biology*, which features work by BNL scientists and others in the field of heavy metal cluster labeling (see story, left). — Karen McNulty

BWIS-Sponsored Talk 4/13

Addiction and Addicts

On Thursday, April 13, at noon, Maxine Sheets-Johnstone will lead a discussion on "What Is Addiction and Who Is Addicted?" Sponsored by Brookhaven Women in Science, the talk will be held in the auditorium of the Office of Educational Programs, Bldg. 438.

Sheets-Johnstone, currently affiliated with the Philosophy Department of the University of Oregon, is a philosopher who writes extensively about the tactile-kinesthetic body and movement, especially from an evolutionary and developmental perspective. Her books include: *The Roots of Thinking, Giving the Body Its Due, The Roots of Power: Animate Form and Gendered Bodies*, and *The Primacy of Movement.*

Arrivals & Departures

Arrivals

David J. Dono ..... Plant Eng.
Thomas W. Gable ..... Plant Eng.
Peter M. Guida ..... Biology
Hochun Lee ..... Env. Services
Pavel Oblozinsky ..... En., Sci. & Tech.
Robert Pak ..... Chemistry
Christopher H. Pinkenburg ... Physics
Werner Vogelsang ..... Physics
Sharon S. Wang ..... Financial Serv.
Nan Zhong ..... Medical

Departures

Frederick J. Altrui ..... PPM
Henry Arnesen ..... Physics
Mattie L. Brown ..... PPM
Edward S. Dale ..... C-A
Luc Derrendinger ..... En., Sci. & Tech.
Gary J. Frisbie ..... NSLS
Frank Haibon ..... PPM
Hoby P. Hetherington ..... Medical
Mary Anne Kelley ..... Instrum.
Tasneem A. Khan ..... Adv. Tech.
Joseph P. Lipski ..... ITD
Harvey J. Lotko ..... C-A
Jesus Marte ..... PPM
Patricia F. Meehan ..... Physics
Laurence Musso ..... Safeguards & Sec.
Stephen J. Pendola ..... PPM
John H. Scharpeger ..... PPM
Neal R. Tempel ..... Biology

Omega Travel, BERA Store in Room D

The BERA Store and Omega Travel are moving to Room D in Berkner Hall until renovations are completed in their usual location. There will be no interruption of service.

Demos

Rent-a-PC, April 11

Rent-a-PC will be in Berkner Hall on Tuesday, April 11, 11 a.m.-2 p.m., to discuss short-term computer rentals for BNL employees.

Rent-a-PC provides desktops, notebooks, LCD projectors, servers, etc., for a day, a week, a month or more. They offer immediate availability as well as local delivery, setup and on-site support. Equipment is pretested, delivered and installed with a "no excuses" guarantee. For more information, call 273-8888.

Omnipoint, April 13

On Thursday, April 13, 10 a.m.-2:30 p.m. in Berkner Hall, Omnipoint Communications will discuss special rates for BNLers buying digital PCS wireless services on Omnipoint's GSM network.

All service plans include free caller ID, voice mail, SMS messaging, and FOX News headlines. Plans include one from $15.99 monthly with free phone, no minutes or contract; or $16.99 monthly for 40 minutes; or $26.99 monthly for 250 minutes, with unlimited weekend calling for the year of the contract.

Other options include special international calling and roaming. Call Richard Goll at 343-5900.

Brookhaven@LinuxWorld

To spread knowledge of BNL among members of the Linux/Information Technology community, a group of Lab scientists hosted a booth in the .org pavilion at the Linux World Conference and Expo held in New York City's Javitz Center from February 2 to 4.

The main theme of the show was to focus on Linux and Free Software Foundation software used in much BNL research. Stephen Adler, Physics Department, who does research and software/hardware development for the PHENIX detector at the Relativistic Heavy Ion Collider (RHIC), wanted to make sure BNL had a presence at the conference. He talked with Ed McFadden of the Information Technology Division.

"McFadden took the initiative in contacting the Linux World Conference and Expo folks, got the paper work in place, and secured a 10x10-foot area in the .org pavilion," Adler said. The BNL display was garnished with posters of Lab research, highlighting everything from

"This is soooo coool that BNL has a booth here!"

work done at RHIC, to the National Synchrotron Light Source (NSLS), the Biology and Chemistry Departments and the Medical Imaging Center.

"We wanted to show how much BNL science has been done using free software and Linux," said McFadden. "In ITD and the Center for Data Intensive Computing, which is also in Building 515, our main computing clusters — over 100 processors — run the Linux operating system."

BNL's booth was well-placed to attract traffic. People from divers backgrounds — ranging from high-school Linux enthusiasts to university professors looking for collaborations with scientific Informatica projects at BNL — passed by the booth.

Many conference attendees asked what BNL was selling. "Our reply was: 'We sell science through basic research,'" Adler said. "Their response showed clearly that the New York metro area and Long Island community are excited by the research being done at the Lab. One young attendee exclaimed, 'This is soooo coool that BNL has a booth here!'"

Special thanks go to Sean McCorkle of Biology, who drove into New York City to set up the booth by himself, Adler and McFadden said. Thanks also go to the other volunteers who manned the booth: Karim El Chenawi, Collider Accelerator Department (C-A); Lars Ewell, Physics; Edouard Kistenev, Physics; Ivan Kronkvist, C-A; Jim Muckerman, Chemistry; Matthias Perdekamp, Physics; Martin Purschke, Physics; Ofer Rind, C-A; Tim Sailer, ITD; David Siddons, NSLS; John Spiletic, ITD; Arnold Stillman, Physics; Michael Tannenbaum, Physics; "and everyone else who helped make the whole event such a success," Adler concluded. Contact Adler at adler@bnl.gov for further information. Pictures of the event can be found at http://ssadler.phy.bnl.gov/pictures/LinuxWorldNYC2K.

New Ways to Tag, Track Molecules

(cont'd)

rounding the metal cluster, you can tailor-make the label to bind to the molecules you want to study," Hainfeld says.

Therefore, scientists can design labels that bind to specific areas on a protein, for example. The location of the labeled molecules can be traced within viruses or cells using an electron microscope, such as BNL's Scanning Transmission Electron Microscope (STEM). At STEM, Biology's Joseph Wall, Martha Simon, Beth Lin, and Frank Kito assisted in collecting critical data for this work. In addition, some of these labels may be useful for x-ray crystallography, a technique used regularly at the National Synchrotron Light Source.

Because of his expertise in what is known as heavy metal cluster labeling, Hainfeld was asked to guest-edit the September 1999 issue of the *Journal of Structural Biology*, which features the most current research in the field. In addition to editing the special issue of the *Journal*, Hainfeld is coauthor on five of the included papers. Papers by Biology's Paul Freimuth and Wall are in this special issue, as are works by scientists from a variety of other research organizations in the U.S., Europe and Israel.

As is evident in the special issue, the range of applications of heavy metal cluster labeling is limited only by scientists' ability to custom-design the appropriate tag for the task.

For example, a metallic tag helped identify one of the key infection-initiating proteins on the surface of the Hepatitis B virus. "If you can understand where these proteins are and how they work, you can better understand the virus," Hainfeld says. That knowledge might eventually lead to ways to defeat the virus.

Tags can also be used to label the products of bioengineering and to detect the presence of antibodies, potentially increasing the sensitivity of some diagnostic techniques.

Some tags might even serve as "magic bullets" to deliver cell-killing radiation doses directly to cancer cells without causing harm to the surrounding healthy tissue. Preliminary studies for this application were conducted at BNL's Hot Laboratory with the help of Suresh Srivastava, Leonard Mausner, Kathryn Kolsky, George Meinken, and Slawko Kurczak, all of the Medical Department.

— Karen McNulty

PeopleSoft Training

Wednesday is Workshop day at BNL's Business Information Systems (BIS), when BIS conducts workshops for anyone interested in learning about PeopleSoft and how it is used at the Lab. Each session, which starts at 10 a.m., is hands-on and requires prior registration through the BIS help desk, Ext. 6262. Also, check the Financial Services Division web site at www.fsd.bnl.gov for further topic description, prerequisites, and on-line registration requests.

Date	Topic
4/5	PeopleSoft Basic/Refresher
4/12	Using PeopleSoft Query
4/19	Proc. & Purch. Order Tracking
4/26	Journal Vouchers
5/3	PeopleSoft Basic/Refresher
5/10	Using PeopleSoft Query
5/17	Proc. & Purch. Order Tracking
5/24	Property Management
6/7	PeopleSoft Basic/Refresher
6/14	Using PeopleSoft Query
6/21	Proc. & Purch. Order Tracking
6/28	Journal Vouchers.

Some Warehouses Have New Schedules

Effective April 3, the schedules for four warehouses changed as follows: Bldgs. 86 and 90 are open weekdays from 8 a.m. to noon only; and Bldgs. 91 and 206 are open weekdays from 12:30 to 4:30 p.m. only. Those who withdraw stock from these warehouses should note these changes.

Other warehouses: Bldgs. 87, 88, 89, 158, and 210, will maintain the previous 8 a.m. to 4:30 p.m. schedule.

Upton Nursery School Needs Preschoolers

Upton Nursery School, a small, parent-run, cooperative nursery school that meets in the Recreation Building in the apartment area, is now accepting registration for children of two-and-a-half to four years old for the 2000-2001 school year, which starts in September. The school provides small classes and a warm, multicultural environment. High parent involvement gives an excellent student:teacher ratio.

Children of BNL employees, facility users, guests, on-site contractors, and their families have been attending the preschool since 1965. If you are interested, call immediately to help decide the future of the school, which will open only if at least 12 students enroll. For more information, contact Shelly Shumway, 732-1367, or shellyshumway@yahoo.com.

Coming Up

On Wednesday, April 26, at 4 p.m., in Berkner Hall, Benjamin Burr, Biology Department, will give the next Brookhaven Lecture, which will be on cotton fiber improvement. All are welcome.

Defensive Driving

The training group of the Safety & Health Services Division will offer a six-hour defensive driving course on Saturday, April 29, 9 a.m.-3:30 p.m., in Berkner Hall, Room B.

The course is open to BNL, BSA and DOE employees, BNL facility-users, and their families, at $23 per person.

To register, send a check made out to Empire Safety Council, in care of Scott Zambelli, P.O. Box 670, Mount Sinai, NY 11766. All checks must be received by April 21. Include your phone number on the check in case you need to be contacted. For more information, call Zambelli at 582-6544 Ext. 5877 (*not* the on-site Ext. 5877).

BERA Bus to Yankees

On Friday, May 5, BERA is going to Yankee Stadium in the Bronx, to see the New York Yankees play the Baltimore Orioles. During the game, "Welcome BERA/BNL employees" will be announced on the scoreboard.

The cost of $49 per person includes admission and transportation on a video-and-bathroom equipped bus. Participants are to arrive at the Brookhaven Center by 4:15 p.m. The bus will leave promptly at 4:30 p.m. for the 7 p.m. game, and will leave the stadium at approximately 10:30 p.m. after the game to return to the Lab.

Tickets are sold first come, first served at the BERA Sales Office, Berkner Hall, weekdays, 9 a.m. - 1:30 p.m. For more information, call Andrea Dehler, Ext. 3347, or M. Kay Dellimore, Ext. 2873.

Pick a Student

Student applications for the fall 2000 Energy Research Undergraduate Laboratory Fellowship (ERULF) Program will be available for review on an electronic database starting Monday, April 3. This year, choices are to be made first come, first served, so choose early. The address and passwords are available from the Office of Educational Programs (OEP) or departmental education coordinators.

The fall undergraduate program will run for 16 weeks, from September 5 until December 21. OEP will pay for the student's round-trip travel and stipend. Sponsoring departments are asked to cost share 45 days of housing ($810) for students who require it.

For more information, contact Louise Hanson, Ext. 5849, hanson2@bnl.gov, or Catherine Osiecki, Ext. 4503, or cathyo@bnl.gov.

BERA Golf Association

The BERA Golf Association is accepting applications for the 2000 season. Beginners to highly experienced golfers are invited to join. Retirees are also welcome. The first matches will be held during the week of April 24.

To obtain an application or more information, contact Jeff Williams, Ext. 5587, or jwilliams@bnl.gov.

Bowling

Purple and White League – 3/30
S. DiMaiuta 213, P. Wynkoop 213, G. Mehl 213, J. Alquino 199, P. Callegari 198, P. Kennedy 198, G. Diamantis 196/183, J. McCarthy 195, M. DiMaiuta 193, T. Blydenburgh 193, T. Morris 193, J. Gormley 184, K. Kryger 184, C. Neuberger 182, MG. Meier 179, L. Simes 177.

Red and Green League – 3/21
M. Meier 264/231/230/725 scratch series, E. Larsen 274/225/693 scratch, J. Griffin 249/225/665 scratch, B. Miltenberger 227/223/638 scratch, R. Larsen 225, D. Schiappa 215, R. Mulderig Jr. 213, R. Mulderig Sr. 210, G. Mack 202, R. Deem 201, N. Besemer 200.

Red and Green League – 3/28
J. Griffin 230/213/611 scratch series, M. Meier 212/203/607 scratch, R. Mulderig Sr. 214/212, J. LaBounty 217, R. Larsen 217, R. Miltenberger 213, J. McCaffrey 202, F. Wahlert 202.

BROOKHAVEN BULLETIN

Published weekly by the Media & Communications Office for the employees, facility-users and retirees of **BROOKHAVEN NATIONAL LABORATORY**

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On the World Wide Web, the Brookhaven Bulletin is located at www.pubaf.bnl.gov/bulletin.html. A Weekly Calendar listing scientific and technical seminars and lectures is found at www.pubaf.bnl.gov/calendar.html.

BERA Bowlers Are Long Island Champions

Roger Stoutenburgh

Pictured are the winning BERA team members, including: (front, from left) Richard Deem, who won the Bob Benn Outstanding Bowler Trophy for averaging 232 over 16 games; Brian Mullany, who got the honor of holding the championship award because he was deemed the team's most valuable player, with an average of 207 for the tournament — some 15 points over his usual average; and Ronald Mulderig Jr., who had an average of 221 over 16 games; (back, from left) Edward Sperry IV, who was an alternate bowler; John McCaffrey, Ronald Mulderig Sr., who had an average of 200 over 16 games; and Joseph Zebuda, another alternate. Deem, Mulderig Jr., and Mullany were among the top 10 bowlers with the highest averages over the 16 games in the tournament.

This year, a new triumph lit up BNL's bowling history when the Men's BERA Bowling League captured first place in the Championship Division of the 59th Annual Long Island Men's Industrial Tournament. The team was competing against 14 industry-sponsored leagues in 16 games.

"Winning this tournament is especially exciting because it is the first time in the 51 years of our team's history that we took this top honor," said John McCaffrey, President of the BERA team. "We came in 109 pins over BAE Systems."

Archived photos show that BNL bowling dated from at least 1948, when the first BERA members used the bowling alley left over from Camp Upton days in what became the Cosmotron building. But although other great BNL wins have been made in competitive bowling, it was left to BERA's 2000 players to bring the coveted Long Island Men's championship home to the Lab.

Taken at BNL in 1948 by BNL photographer R. F. Smith, this photo shows M. Chiuchiolo, Accelerator Project, who won a trophy for a high average of 142.

Dress for Success
Women's Business-Clothing Drive

BNL's Women's Program Advisory Committee (WPAC) is coordinating a community service program between the Town of Brookhaven and Lab employees to give work-related clothing to women of low income who need suitable business outfits to wear for job interviews. Brookhaven Town's Office of Women's Services states that: "*Dress for Success Brookhaven* seeks to outfit women in need . . . The gift of this clothing symbolizes our faith in a woman's ability to succeed."

Collection dates will be Monday-Wednesday, April 17-19. Donors are asked to provide clothing that could be worn to an interview. Clothes should be in excellent condition, dry cleaned or freshly laundered and on hangers. Sizes 16 and up are especially needed. Bring donations to a contact person listed below.

Acceptable items include: Women's business suits, blouses, new packaged panty hose, and handbags. **Unacceptable items include**: Dresses, undergarments, shoes, used pantyhose, men's clothing.

Contact Person	Location	Phone	E-mail
Pat Durcan	460	5406	pdurcan@bnl.gov
Eva Emmerich	911B	4758	emmerich@bnl.gov
Donna Grabowski	535	2720	grabowsk@bnl.gov
Stephanie LaMontagne	1005	7141	stephl@bnl.gov
Vicky McLane	197D	5205	mclane@bnl.gov
Marilyn Pandorf	185	5251	pandorf@bnl.gov
Michiko Tanaka	477	7761	mtanaka@bnl.gov
Elaine Taylor	902	4075	elainet@bnl.gov
Dorry Tooker	179A	2078	dorryt@bnl.gov
Arling (Wu) Zhang	911A	5369	arling@bnl.gov

WalkAmerica for Healthier Babies

Celebrate the annual March of Dimes WalkAmerica for Healthier Babies by joining the BERA team on Sunday, April 30. WalkAmerica raises support for healthier-baby programs of research, education, advocacy and local community services.

Gather coworkers, family and friends and enjoy the occasion with the BERA team. To register, pick up a WalkAmerica sponsor sheet at the BERA Sales Office in Berkner Hall, weekdays, 9 a.m.-1:30 p.m.

If you cannot walk, but would like to contribute, mail a check made payable to the March of Dimes to the Recreation Office, Human Resources, Bldg. 185, or drop it off at the BERA Sales Office. For more information, call Andrea Dehler, Ext. 3347; or M. Kay Dellimore, Ext. 2873.

On-Site Service Station
Open House 4/12, 4/19

The on-site service station, Upton Industries, Inc., will host an open house 5-7 p.m. on two Wednesdays, April 12 and April 19, to answer questions about auto services and the new IM 240 emissions testing. Also, from April 10-21, the service station offers a special: oil changes at $18.95 with New York State (NYS) inspection, and at $19.95 without NYS inspection. More specials will be coming soon.

GLOBE@BNL

The next monthly meeting of the gay and lesbian club, GLOBE@BNL, will be on Friday, April 14. For more information and the meeting's location, call Mike Loftus, Ext. 2960, or Chris Gardner, Ext. 4537; or go to the club's web site: http://homestead.juno.com/bnlglobe/files/home.html.

Rifle & Pistol Club

Meeting Location Change: The BNL Rifle & Pistol Club's next monthly meeting will be Wednesday, April 12, at noon. Notice that the meeting will be held in the conference room of Bldg. 535. For more information call Joe Gatz, Ext. 4212; Jim Durnan, Ext. 5993; the R&PC hot line, Ext. 2658; or go to the club's web page at www.berahome.bnl.gov/clubs/rpc/rpc.html.

Hospitality News

All newcomers, guests and visitors are invited to take part in the following activities. More details are posted in the laundry room in the apartment area and on the door of the Recreation Building. If you have questions call Susan Hart, Chairman, 821-4257.

Welcome Coffee

Every Tuesday, at 10-11:30 a.m., in the Recreation Building lounge, newcomers to BNL are invited to find out about life at the Lab and make new friends. At the meeting on April 11, come and share food and recipes. Call Mimi Luccio, 821-1435, for details.

Parent-Toddler Group

Parents and small children are invited to enjoy the "play and chat" in the Recreation Hall on Wednesday mornings, 9:30-11:30 a.m. Call Sarah Zill, 821-2602.

Easter Egg Hunt

A children's Easter Egg Hunt will be held on Saturday, April 22, at 10 a.m., at the Recreation Building. To enter your child, bring about 12 eggs per child (candy-filled plastic, chocolate or hard-boiled eggs) by Thursday, April 20, to Vicky Chang, 344-1000, Apt. 1A. The eggs will be hidden for the children to find, so they will need a small bag or basket for the hunt.

Bulletin Deadlines

To cut costs, the Brookhaven Bulletin will be printed on Wednesdays, not Thursdays, effective for the Bulletin of Friday, April 28. Therefore, all Bulletin announcements will have to be received a day earlier.

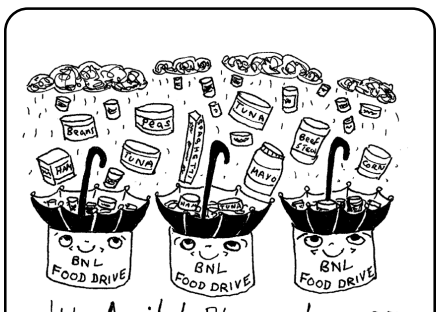
The new schedule will be:

All Bulletin notices — deadline for announcements, BERA items, concerts, etc., is Friday at 4 p.m. for publication the following week.

Ads — deadline 4 p.m., Thursdays.

This will become effective on Thursday, April 20, for the Bulletin of April 28. The Bulletin regrets losing some of its ability to accommodate very late-breaking news, but electronic communications can now fill that gap, and the savings will be worth the change.

— Liz Seubert, Editor



BNL Food Drive

No time to shop? Send personal checks to BNL Food Drive, care of Rita Kito, Bldg. 460, or Donna Wadman, Bldg. 129.

Classified Advertisements

LABORAT0RY RECRUITMENT - Opportunities for Laboratory Employees.

MK8920. SECRETARIAL POSITION - Requires an AAS in secretarial science or equivalent experience, excellent oral and written communication skills, strong customer service skills, and a solid knowledge of MSWord and Laboratory policies, practices and procedures. Knowledge of Web requisitions, PeopleSoft, and other Laboratory systems highly desirable. Will provide secretarial support to members of the Employment Group including arranging employment interviews, arranging travel, inputting data into an applicant track database, preparing hire packages, and responding to requests for information from Laboratory staff. Will be involved with heavy telephone work and assisting with Front Desk responsibilities. Will be responsible for other Employment-related functions as required. Human Resources Division.

NS8492. RESIDENCE CUSTODIANS (Temporary assignment - 5/1-9/29). Staff Services Division.

OPEN RECRUITMENT - Opportunities for Laboratory Employees and Outside Candidates.

MK8664. SCIENTIST - We are seeking a Sr. Structural Biologist with international stature to lead a major new research initiative in structural biology that takes advantage of the x-ray crystallography facilities at BNL's National Synchrotron Light Source. The successful applicant will develop an independent research program with the Laboratory's Biology Department, have a joint appointment in the Biochemistry and Cell Biology Department at the State University of New York at Stony Brook and participate in developing a new Center for Complex Protein Structures. Substantial funds are available for laboratory start-up and research. The Biology Department has strong programs in molecular genetics, structural biology, genomics and biotechnology. Among its resources are state-of-the-art user facilities for x-ray crystallography, UV spectroscopy, and scanning transmission electron microscopy. Under the direction of C. Anderson. Biology Department.

MK8585. SCIENTIST - We are seeking a Sr. Neuroscientist of international stature to build and lead a major new research initiative in neurosciences/genetics. The successful applicant will have an opportunity to structure an independent research program within the Laboratory's high technology research environment and to form strong associations with DOE's research community including programs in mouse genetics and genomics. Substantial funds are available for laboratory start-up and research. Life Sciences has strong programs in preclinical and clinical neurosciences that use imaging technologies to investigate the effects of drugs and aging in the human brain, in DNA damage detection and repair, genomics, molecular and structural biology, and radioisotope and radiopharmaceutical research. This research takes advantage of unique BNL facilities that include imaging capabilities, Scanning Transmission Microscopy, the Alternating Gradient Synchrotron, and the National Synchrotron Light Source. Under the direction of N. Volkow. Medical Department.

MK8665. POSTDOCTORAL RESEARCH ASSOCIATE - Requires a Ph.D. in cell biology, biochemistry, or closely related field, with an interest in the regulation of protein expression in mammalian cell and DNA repair. Experience with mammalian tissue culture, cell differentiation, animal tissues and single cell methods for measuring and analyzing RNA and proteins (e.g., in situ RT-PCR, immunocytochemistry, microinjection) is strongly preferred. Will work in a group environment to characterize mechanisms that regulate expression of DNA repair proteins including DNA-PK and Ku in human breast epithelial cells and rodent tissues, and will determine the functional consequences of expression levels in differentiated cells through the development and application of repair assays for DNA strand breaks. Under the direction of C. Anderson and P. Freimuth. Biology Department.

MK8584. POSTDOCTORAL RESEARCH ASSOCIATE - to participate in the planning and implementation of stereotaxic surgery, cannula implantation, microinjection, vector preparation, behavioral assessment, histochemical and statistical analysis. Requires a Ph.D. in neuroscience. Under the direction of N. Volkow. Medical Department.

MK8377. RIKEN BNL POSTDOCTORAL RESEARCH ASSOCIATE - A research center focusing on the physics program of the Relativistic Heavy Ion Collider (RHIC), hard QCD/spin physics, lattice QCD and relativistic heavy ion physics has been established by the Institute of Physical & Chemical Research, Japan (RIKEN) at the Laboratory. An experimental division on spin physics was established in 1998. RHIC will be the first polarized proton collider, beginning in 2000, and the Center is playing a major role in developing the RHIC spin program. A Research Associate (two-year appointment) will be offered for the fall of 2000. We will also consider applications for RIKEN BNL Fellow positions, which are for five years, entering at the equivalent of Assistant Professor level. The group has five members at this time, four Fellows and one research associate. Members of the experimental division of the Center will have the opportunity to participate in the detector program at RHIC. Scientists with appropriate backgrounds who are interested in applying should send a curriculum vitae and three letters of reference to: Professor T.D. Lee, Director, RIKEN BNL Research Center, Bldg. 510A, Brookhaven National Laboratory, PO Box 5000, Upton, NY 11973-5000, before June 1, 2000. Physics Department.

MK7979. POSTDOCTORAL RESEARCH ASSOCIATE - Requires a Ph.D. in physical chemistry or related discipline and a background in laser spectroscopy or chemical dynamics. Familiarity with high-resolution lasers, vacuum techniques, scientific programming for data acquisition and analysis, quantum dynamics and chemical rate theory highly desirable. Research involves high-resolution spectroscopy used to study correlated product information in unimolecular and bimolecular photo-initiated reactions. Under the direction of G. Hall. Chemistry Department.

NS8465. INDUSTRIAL HYGIENIST POSITION - Requires an MS or equivalent in industrial hygiene, toxicology, environmental health, occupational epidemiology, or a related field, and several years' relevant experience. Background in the quality assurance aspects of industrial hygiene and ABIH certification is desirable. Responsibilities will include performing operational industrial hygiene consultation for various Laboratory programs and directing the implementation of a comprehensive QA program for the Division's industrial hygiene program. Safety & Health Services Division.

NS8661. BUDGET SPECIALIST POSITION - (reposting) Requires a bachelor's degree in accounting or business administration, proficiency in MS Excel and PowerPoint, the ability to work independently, prioritize responsibilities and respond to deadlines. Working knowledge of PeopleSoft is highly desirable. Under the direction of the Life Sciences Business Operations Manager, will provide financial and administrative support in the areas of budget planning and costing, labor forecasting and cost distribution, grant/proposal submission and contract management. Biology Department/Life Sciences Directorate.

Earth Week Activities at BNL April 15-22

The 30th anniversary of Earth Day is Saturday, April 22. To celebrate, staff from across the Lab have organized activities during April 15-22. All employees are encouraged to participate. Interested volunteers should call the point-of-contact people listed below. For details, see last week's Brookhaven Bulletin or www.bnl.gov under "Earth Day Events."

Monday, April 17-Saturday, April 22

•Displays at Berkner Hall*

Saturday, April 15

Birding Field Trip* — from Berkner Hall at 7 a.m. or 12:30 p.m. Preregistration required, sign up by April 12. Contact: Tim Green, Ext. 3091.

Monday, April 17

• Nature Walk — 11:30 a.m., Berkner Hall. Lunchtime stroll. Contact: Jan Naidu, Ext. 4263; or Tim Green, Ext. 3091.

• Office Recycling — Monday & Tuesday, April 17 & 18. Spring clean your space. Contact: Slim Blevins, Ext. 4806.

Tuesday, April 18

• Pollution Prevention Tour for Industry* — 9:15-11:30 a.m., Berkner Hall. Local industries see pollution-prevention at BNL. Contact: George Goode, Ext. 4549.

• "Simple Green"* — 9 a.m.-1 p.m. Berkner Hall. Environmental education.

• Environmental Awards* — 11:30 a.m.–noon, Berkner Hall.

• Talk on Pollution Prevention* — noon–1 p.m., Berkner Hall. Robert Pojasek, Coffee and cookies will follow. Contact: George Goode, Ext. 4549.

• Long Island's Pine Barrens* – 7:30 p.m., Berkner Hall, talk by John Turner, New York State Water Resources Commission. Contact: Barbara Blenn, Ext. 4458.

Wednesday, April 19

• Office Supply Swap — 1-3 p.m., Berkner lobby. Contact: Francine Donnelly, Ext. 3381.

• Dirty Sock Contest — 11 a.m.-1 p.m., Bldg. 490 (Medical) parking lot. Upton Industries, Walmart and BNL will sponsor a vehicle emissions contest with prizes. Contact: Jeff Williams, Ext. 5587.

• Alternate Fuel Vehicles Display* — 10 a.m.-2 p.m., Bldg. 490 parking lot. Contact Jeff Williams, Ext. 5597.

Thursday, April 20

• Brookhaven Town Materials Recycling Facility Tour — 11 a.m. and noon, bus from Berkner Hall. Contact: Peter Pohlot, Ext. 5660.

• Talk: Environmental Monitoring for Public Access* — noon-1 p.m., Berkner Hall. Jill Engel-Cox will discuss sharing environmental monitoring data in real-time, user-friendly formats. Contact: Bet Zimmerman, Ext. 4225.

Saturday, April 22

• Races, Family Fun.* Earth Day race, 10 a.m. Registration required, $15 prior to 4/12, $18 after 4/12. Use entry form sent to all employees or obtain forms at www.bnl.gov under Earth Day Events or register on race day 7:30-9:30 a.m. Co-sponsors include FLIK, Ortho-Sport Physical Therapy, Running Ahead, Runner's Edge, Second Wind, Super Runners, Teachers Federal Credit Union, and Vytra. Contact: Peter Pohlot, Ext. 5660.

• For the Family.* Race, games. The cafeteria will be open for lunch.

• Slide Show on Mountaineering in Peru — 1 p.m., Berkner Hall. Slide show by Douglas Zimmerman. Contact: Rich Casella, Ext. 7975.

**Starred items are also open to the public.*