

Brain-Imaging Study Reveals First Clues to Inhalant Abuse

First-time solvent study inspired by Long Island schoolchildren's questions

Inhalant abuse, also known as "huffing," is a rapidly growing health problem, particularly among young people.

According to the 2000 National Household Survey on Drug Abuse, published last month, two million American children and teens reported using inhalants at least once in their lifetime. Yet despite this widespread use, little is known about how inhaled chemicals affect the brain and body.

Now, BNL researchers — inspired by local schoolchildren who wanted to know more about huffing — have produced the first-ever images showing what parts of the brain and body are most affected by toluene, a commonly inhaled solvent.

The study, which was performed in baboons and mice, will appear in the April 26 issue of the journal *Life Sciences*.

The images show that toluene moves into the brain rapidly and initially affects the same brain regions as do cocaine and other abused drugs. Then, toluene spreads more generally to the entire brain before clearing the body rapidly via the kidneys.

"This affinity for brain regions associated with reward and pleasure, as well as the quick uptake and clearance, may help to explain why inhalants are so commonly abused," said lead author Madina Gerasimov of BNL's Chemistry Department.

"For the first time, we have shown in living animals where the most commonly used solvent goes in the brain and the rest of the body," said neuroanatomist Stephen Dewey, also of Chemistry.

"This study was really born out of my going to local elementary schools, where I've been giving



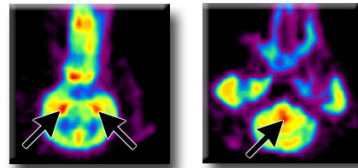
Madina Gerasimov, Stephen Dewey

talks about Brookhaven's addiction research since 1995," Dewey added. During his talks, children as young as fourth and fifth graders would sometimes ask him about huffing.

"After about the third or fourth time that someone asked me, I proposed that we develop a way to label and image solvents, which seem to be a 'gateway' drug of abuse for some

young children," he said.

In addition to Gerasimov and Dewey, the research team included: Chemistry's Richard Ferrieri, Jean Logan, John Gatley, Andrew Gifford, David Alexoff, Colleen Shea, and Victor Garza; Pauline Carter and Payton King of Medical; Charles Ashby of St. John's University; Steve Vitkun of Stony Brook University; and Stony Brook graduate students



These baboon-brain scans show where toluene, a common solvent, goes in the brain two minutes after it was injected into the animals. The image on the left shows that toluene quickly enters the brain's striatal region (arrows), the area directly associated with reward and pleasure. The image on the right shows toluene entering deep cerebellar nuclei, the brain region involved in voluntary movement. These findings are in agreement with clinical evidence that toluene abusers ("huffers") experience a rapid "high," and also suffer neurological symptoms such as ataxia (lack of coordination) and slurred speech.

Wynne Schiffer and Douglas Marsteller.

The team chose toluene because it is one of the most common industrial solvents and is found in paints, glues, and other household products often abused by huffers.

To label the toluene, the BNL chemists replaced some of the compound's carbon atoms with a radioactive isotope, carbon-11. This radiolabeled toluene was then injected into the experimental animals. The scientists used injection rather than inhalation as an administration route so that they would know precisely how much toluene the animals were given.

The level of the radioisotope was then measured using a positron emission tomography (PET) camera, which picked up the radioactive signal, showed

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Pegram Lecture Series, May 13, 14, 15

In this year's Pegram Lecture Series at BNL, physicist and prize-winning author Freeman Dyson will explore "Unfashionable Thoughts About Science and Technology" in three talks in May. The free lectures will be given at 4 p.m., Berkner Hall; the public is welcome.

Dyson's May 15 talk, "World Economic Forum Debates the Future of Science and Technology," is geared toward a general audience. The May 14 talk, "Looking for Life in Unlikely Places," is for those with some knowledge of astronomy. The May 13 talk, "Thought-Experiments: Exploring the Limits of Quantum Mechanics" is primarily intended for physicists.

May 16th Celebration: Nicholas Samios' 70th Birthday

All are cordially invited to attend a symposium organized by Brookhaven National Laboratory in celebration of the 70th birthday of BNL Distinguished Senior Physicist Nicholas Samios, former Laboratory Director. The program will be held in Berkner Hall on Thursday, May 16, and will include a full day of talks followed by a reception and dinner.

Speakers at the symposium will include: Charles Baltay, Yale University; D. Allan Bromley, Yale University; Sheldon Glashow, Boston University; Marvin Goldberg, National Science Foundation; T.D. Lee, Columbia University and RIKEN BNL Research Center; Robert Palmer, BNL; Jack Sandweiss, Yale University; Jack Steinberger, CERN/INFN, Pisa, Italy; and Frank Wilczek, Massachusetts Institute of Technology. Some attendees will also present short "Nick" stories.

For more information, contact Howard Gordon, gordon@bnl.gov.

Those who plan to attend the talks or the dinner or both are asked to complete the response form available at <http://www.bnl.gov/bnlweb/samios70.htm> and return it by May 1 to: Jackie Mooney, BNL, Physics Department, Bldg. 510, Upton, NY 11973; or contact Mooney at mooney@bnl.gov or Ext. 3743.

BNL Scientist Helps Revise U.S. Voting-System Guidelines

John O'Hara, Energy Sciences & Technology Department, has been helping the Federal Election Commission (FEC) to review and revise federal guidelines on voting systems. Specifically, the FEC invited O'Hara to review and make recommendations for revising the human-fac-

tors aspects of federal voting guidelines.

As a cognitive psychologist who specializes in the ways people interact with complex systems, O'Hara has the expertise to evaluate the human factors that led to problems with the butterfly ballot used in

Florida's Palm Beach County in the 2000 U.S. presidential election. He made recommendations to prevent those types of problems from occurring, no matter what type of voting technology is used: paper, mechanical, or computer-based systems.

O'Hara gave the FEC numerous recommendations, which are being incorporated into the FEC's updated National Voting System Standard. The standard provides voluntary engineering guidelines and performance standards for voting systems in the U.S.

"I study the way in which people process information in complex systems such as nuclear power plants and spacecraft, and how the interfaces to those systems can be designed to support rapid and accurate understanding of the situation," O'Hara said. "Many of the principles of human perception and cognition that apply to complex systems also apply to simple systems."

He added, "Whether you're developing an airline cockpit or an Internet voting system, the design should minimize human error."

With funding from BNL, O'Hara was able to provide the FEC with guidance on such voting system features as the design of ballot-information displays and navigation aids. This guidance

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John O'Hara, Energy Sciences & Technology Department

Calendar of Laboratory Events

- The BERA Sales Office is located in Berkner Hall and is open weekdays from 9 a.m. to 3 p.m. For more information on BERA events, contact Andrea Dehler, Ext. 3347; or M. Kay Dellimore, Ext. 2873.
- Additional information for Hospitality Committee events can be found at the Lollipop House and the laundry in the apartment area.
- The Recreation Building (Rec. Bldg.) is located in the apartment area.
- Contact names are provided for most events for more information.
- Calendar events flagged with an asterisk (*) have an accompanying story in this week's Bulletin.

— EACH WEEK —

Mondays: BNL Gospel Choir

5:15-7 p.m. Berkner Hall. www.bnl.gov/bera/activities/choir/.

Mondays & Wednesdays: English for Speakers of Other Languages Classes

Beginner-Intermediate: Monday, 9:15-10:45 a.m. Intermediate-Advanced: Wednesdays, 7:30-8:30 p.m. Rec. Bldg., 2nd Floor. Learn English. Make friends. Jen Lynch, Ext. 4894.

Mon., Tues., & Thurs.: Kickboxing

\$5 per class. Mon. & Thurs. noon-1 p.m. in the gym; Tues., 5:15-6:15 p.m. in the gym; Thurs., 5:15-6:15 p.m. in Brookhaven Ctr. Registration is required. Mary Wood, Ext. 5923, or wood2@bnl.gov.

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

Noon-12:45 p.m., Rec. Bldg. Scott Bradley, Ext. 5745, bradley@bnl.gov.

Tuesdays: Welcome Coffee

10-11:30 a.m. Rec. Bldg. Hospitality event. Come and meet friends. The first Tuesday of every month is special for Lab newcomers and leaving guests. Hospitality Chair Mimi Luccio, 821-1435.

Tuesdays: Toastmasters

Meetings are 1st and 3rd Tuesday of each month at 5:30 p.m. in Bldg. 463, Room 160. Guests, visitors always welcome. www.bnl.gov/bera/activities/toastmasters/default.htm.

Tuesdays & Thursdays: Aerobics

5:15-6:30 p.m., \$4 per class. Rec. Bldg. Pat Flood, Ext. 7886.

Tuesdays & Thursdays: Aqua Aerobics

5:15-6:15 p.m. \$2 pool fee per class or use pool pass. Mary Wood, Ext. 5923.

Wednesdays: On-Site Play Group

9:30-11:30 a.m., Rec. Bldg. Parents meet while children play. Monique de la Beij, 399-7656.

Wednesdays: BNL Music Club

noon, North Room, Brookhaven Center. Come hear live music. Joe Vignola, Ext. 3846.

Wednesdays: Weight Watchers

noon-1 p.m., Brookhaven Center South Room. Mary Wood, Ext. 5923, wood2@bnl.gov.

Wednesdays: Yoga Practice

noon-1 p.m., Rec. Bldg. free. Ila Campbell, Ext. 2206.

Wednesdays: Stretch

5:15-6:15 p.m., \$4 per class. Rec. Bldg. Pat Flood, Ext. 7886.

Wednesdays: BNL Ballroom, Latin & Swing Dance Club Lessons

5-9 p.m. North Ballroom, Brookhaven Center. Register now for series 4 classes. Ballroom dance socials: 5/18. Marsha Belford, belford@bnl.gov or Ext. 5053, or www.bnl.gov/bera/activities/dance.

Thursdays: Falun Dafa Class

noon-1 p.m., Free. Rec. Bldg. Falun Dafa refines the body and mind through exercises, meditation. www.falundafa.org.

Fridays: BNL Social & Cultural Club

7-11:30 p.m., Brookhaven Ctr., dance social. Rudy Alforque, Ext. 4733, rudy@bnl.gov.

— THIS WEEKEND —

Saturday, 4/20

Earth Day Run/Walk

3 p.m., Berkner Hall. Registration/Check-In will begin at 1 p.m. For more information, see www.bnl.gov/eday.

— WEEK OF 4/22 —

Monday, 4/22

IBEW Meeting

6 p.m., Knights of Columbus Hall, Railroad Ave., Patchogue. 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, 4/23

*Healthline Lecture

Noon to 1 p.m., Berkner Hall. Carolyn Gallogly, Associate Dean at St. Josephs College, will present "Vital Aging: A New Vision of Growing Older." All are welcome. Mary Wood, Ext. 5923 or wood2@bnl.gov.

*Toastmasters Speakers' Showcase

Noon to 1 p.m., Berkner Hall, Room D. The program features speeches and evaluations by winners of area speech contests as well as opportunities to learn about Toastmasters International. All are welcome, bring or buy lunch, coffee will be provided. Preregistration is required. Contact Nancy Manning, Ext. 5744, nmanning@bnl.gov.

Scharff-Goldhaber Prize, May 1

All are invited to attend the 2002 Gertrude Scharff-Goldhaber Prize ceremony on Wednesday, May 1, at 4 p.m. in the Physics Department Large Seminar Room, Bldg. 510.

The \$1,000 annual award was established to recognize substantial promise and accomplishment by a woman graduate student in physics. Administered by Brookhaven Women in Science (BWIS), the prize honors the outstanding contributions of the late nuclear physicist Gertrude Scharff-Goldhaber, who, in 1950, became the first woman Ph.D. physicist appointed to the BNL staff. Later, she became a founding member of BWIS.

This year's prize will be awarded to Yiing-Rei Chen of Stony Brook University. The prize will be presented by BNL Distinguished Scientist Maurice Goldhaber after Chen gives a short seminar on "Prediction of the Formation and Mid-Gap Features of Spin-Lattice Polarons in Electron-Doped CaMnO₃".

Refreshments will follow the presentation. For more information, contact Pam Mansfield, Ext. 7286.

Inside Information

Sally Dawson, a senior scientist in the Physics Department and leader of BNL's High Energy Theory Group, is now Vice-Chair of the American Physical Society's (APS) Division of Particles & Fields. A Fellow of the APS since 1995, she was cited: "For outstanding work in particle phenomenology, including the effective W approximation and Higgs physics."

Dawson has served as Associate Editor of Physical Review D since 1995, APS Centennial Speaker in 1998, member of BNL's High Energy & Nuclear Physics Program Ad-



visory Committee, 1998-present; and member of DOE's High Energy Physics Advisory Panel, 1999-2002. She was also the Town of Brookhaven's 1995 Woman of the Year in Science.

Dawson earned her Ph.D. in physics from Harvard University in 1981 and spent two years at Fermi National Accelerator Laboratory and three years at Lawrence Berkeley Laboratory before joining BNL in 1986. She received tenure in 1990. She is also an adjunct professor at the C.N. Yang Institute for Theoretical Physics at Stony Brook University.

Retirement Planning Seminar, 5/15

Understanding your retirement-plan options is important in planning your financial future. In a one-hour seminar in Berkner Hall at noon on Wednesday, May 15, a representative from TIAA-CREF will discuss withdrawals, minimum distributions, survivor benefits, and annuities. All are welcome at this free seminar. If you plan to attend, mail your name and building number to Joyce Wund, Bldg. 185, by Friday, May 3.

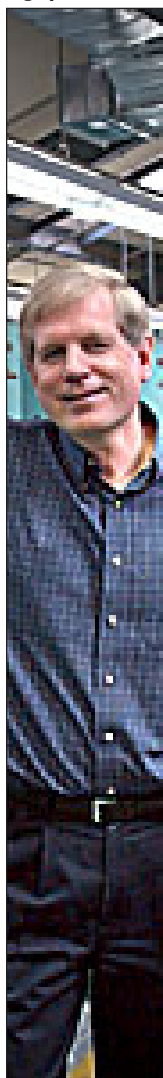
Voting-System Guidelines

(cont'd.)

reflects principles of how people will interpret voting system rules and how human perception will group the information in a ballot display. The guidance also addresses principles to minimize human error through the use of proper design features.

Among O'Hara's recommendations to improve voting systems are:

- Organize information on the ballot in a consistent and standardized manner so that voters "see" the rules underlying information presentation and vote-casting actions.
- Give positive guidance on what to do through the use of clear, simple instructions, and graphic aids, including guidance on what to do if a voter needs help.
- Allow access to sample ballots, and give voters an opportunity to practice before they vote, especially if using a new electronic and Internet-based system.
- Provide all necessary information in one place for casting each vote, to minimize attention shifts and interruptions. There should be no need to turn pages or use several screens when casting a single vote.
- Design the voting system to allow voters to control the pace and sequence of their use of the ballot. Voters should be able to move freely back and forth.
- Offer feedback on whether or not a vote was properly registered. When feasible, the system should prevent unacceptable voter inputs, such as voting for too many candidates, through the use of interlocks and software-error checking functions.
- Design systems with sufficient flexibility to accommodate the unique demands of all voters, such as adjustable displays and seating for elderly or disabled voters.
- Make a means for correcting a vote readily available.
- Allow voters to review all their votes before final submission.
- Test and evaluate voting systems to ensure that they are usable. — Diane Greenberg



Inhalant Abuse

(cont'd.)



located in the body, and tracked its location over time. Other tissue-sampling methods were used to track the toluene as well.

Regional distribution

The researchers were surprised by the findings.

"I couldn't believe it," Dewey said. "The theory has always been that the effects of solvents would not be very specific — that if you breathe them in they'd go everywhere equally.

"But, in fact, it looks as if there's a regional distribution," Dewey continued. "Solvents go to specific regions associated with reward and pleasure, just like other abused drugs. Then, over time, they redistribute."

The initial specificity for the brain's reward centers may help to explain the addictive potential of inhalants, while the redistribution to the entire brain seems to mirror clinical changes observed in huffers.

Unlike other drug abusers, who have damage in the reward centers, Dewey explained, "Huffers have a much more global disease. They show changes in areas of the brain that may interrupt normal learning and memory more quickly than other drugs do."

In addition to offering insight into the nature and effects of inhalant abuse, Gerasimov commented, this study is also a tech-

nical advance in radiochemistry.

"It is the first time chemists have labeled and purified a solvent for imaging," she said. This may open up a whole new field of study into the effects of a wide array of solvents found in common, everyday products, from cleaning fluids to hairsprays.

"There isn't a person among us who isn't exposed to solvents," Dewey said.

This work was funded by DOE and the National Institute on Drug Abuse (NIDA). Gerasimov has already received a three-year grant from the National Institutes of Health and two years of Laboratory Directed Research & Development funding from DOE to continue the study of inhalants. The team has also applied for additional grants from NIDA.

Future studies will look at the effects of other inhalants, first in animals and then in humans. The scientists are also working to develop a method to study these chemicals in inhaled as well as injected form, to further their understanding of how these solvents affect the brain and other body systems.

— Karen McNulty Walsh

For more information on inhalants, go to: <http://www.nida.nih.gov/ResearchReports/Inhalants/Inhalants.html>; <http://www.inhalants.org>; and, for information for children, <http://www.nida.nih.gov/MOM/IN/MOMIN1.html>.

Rad Control Tech Trainee Program Information Meeting, 4/23

At 5 p.m. on Tuesday, April 23, in Room A, Berkner Hall, an informational meeting will be held on a new, entry-level program designed to train individuals to work as radiological control technicians.

Participants in the Radiation Control Technician Trainee Program will gain skills and knowledge required to perform radiological surveys, evaluate areas for the presence of radiation and radioactive material, evaluate material and personnel for release to uncontrolled areas, protect personnel working in an area where radiation and radioactive materials are present, and respond to radiological emergencies.

The training program will take three years — six months in the classroom and two and a half years of practical experience on the job. For more information on the program, contact Gordon Rawn, Ext. 7095, or Rosa Palmore, Ext. 2703.

Wanted: Good Listeners, to Help Make a Difference BNL Advocacy Council Members Needed

The Nominating Committee of the Brookhaven Advocacy Council (BAC) is looking for four candidates who represent the Lab's diverse workforce to become members of BAC.

If you are a good listener who can maintain confidentiality, remain impartial, base your judgment on fact rather than emotion, are interested in establishing an atmosphere of trust between BNL management and its employees, and are willing to devote time and energy to ensure that everyone enjoys equally the quality of life that BNL has to offer, consider becoming a member of the BAC.

BAC is a key component of BNL's system of justice. The members advise and make recommendations to the Laboratory Director on resolving employee, guest, and user concerns or issues that are brought to BAC's attention. BAC has the authority to receive and respond to employee, guest, and user concerns or issues; analyze and research data; and propose resolutions. Members have access to all pertinent, uncensored information, within BNL's guidelines regarding confidentiality, to assist them in resolving these concerns or issues. Membership responsibility consists of regular participation in the monthly Council meetings for three years. BAC functions independently of the Human Resources Division, reporting directly to the Laboratory Director.

If you are interested in becoming a candidate, contact one of the members of the Nominating Committee, by Friday, May 3, with the following information: your name, extension, e-mail address, Department/Division, and position. The Nominating Committee will recommend candidates to the Laboratory Director, who makes the final decision and appoints the members.

Nominating Committee members are: Vincent Castillo, Ext. 3772, castillo@bnl.gov; Joe Gisondo, Ext. 4567, psych@bnl.gov; Grace Webster, Ext. 3227, gwebster@bnl.gov; and Corene Wood, Ext. 5070, wood1@bnl.gov. Be sure to contact a member by May 3.

**Attn. BNL Computer Users
Tell ITD What
YOU**



I wonder, what do BNL computer users think of ITD's renewed & improved services?

Think!

Respond to the Information Technology Division (ITD)'s **FIRST ANNUAL, LAB-WIDE ITD SURVEY**

to be issued next week via e-mail.

Your feedback wanted on —

- scientific computing
- network services
- enterprise operations
- application services
- cyber security

Survey responses due May 15th; Results to be published June 15th.

For more information, contact ITDhelp@bnl.gov
8 a.m. to 5:30 p.m. Mon. - Fri.
or Ext. 5522
24 hours a day, 7 days a week

'Daughters to Work'

There is still time to register your daughter for "Take Our Daughters to Work Day," which is held next Thursday, April 25.

BNLers are invited to bring their daughters to the Lab so that the girls may discover what their parents do for a living, participate in on-site activities, and consider a career in science. Parents who work in areas which minors may not visit and who need a "host parent" for their daughters should indicate this on the coupon.

If you need a registration form, or more information, then contact Susan Foster, Ext. 2888.

Defensive Driving

A six-hour defensive driving course will be offered on Saturday, April 27, 9 a.m.-3:30 p.m., in Room B, Berkner Hall.

To register, send a check for \$23 per person, made out to Empire Safety Council, in care of Scott Zambelli, P.O. Box 670, Mount Sinai, NY 11766. Include your telephone number in case you need to be contacted. The check must be mailed out today.

BERA Off-Road Club Formed

The Brookhaven Employees Recreation Association (BERA) has formed an Off-Road Club and is currently looking for BNLers who enjoy taking their four-wheel-drive vehicles off the road to beaches and parks for various recreational activities such as barbecues, volleyball games, and other get-togethers.

For more information, send an e-mail to borc@bnl.gov.

Weight Watchers

Registration for the Weight Watchers at Work program will be held next Wednesday, April 24, at noon in the Brookhaven Center South Room. The first session will be held on Wednesday, May 1.

The registration fee is \$89, which includes ten sessions. There will be no registration after the first session. For more information, contact Mary Wood, Ext. 5923 or wood2@bnl.gov.



Roger Stouthenburgh

Spotlight Awards

For extending short-term, extraordinary efforts in response to the needs of their departments or divisions, the following BNL employees were honored with after-tax \$500 Spotlight Awards during fiscal year 2001:

Basic Energy Sciences: Maria-Gracia Webster.

Biology Department: Thomas Langdon, Richard Sautkulis, Edward Whittle.

Central Shops Division: Frederick Wahlert.

Chemistry Department: Andrei Sukhanov.

Collider-Accelerator Department: Richard Anderson, Michael Bannon, Gladys Blas, Roger Bonati, Matthew Ceglia, Philip Cerniglia, Richard Conte, Timothy Costanzo, John Cupolo, Anthony Curcio, Gary Danowski, Christopher Degen, Mitch DeLaVerger, Joseph Drozd, Bartosz Frak, Gregory Heppner, David Kipp, Frederick Orsatti, Donald Meany, Paul Mickaliger, Craig Rhein, Pablo Rosas, Joseph Saetta, Steven Savatteri, Scott Seberg, Robert Sikora, Melvin Van Essendelft, Charles Whalen, Daniel Wilson, Douglas Wood.

Community, Education, Government & Public Affairs: Diane Greenberg.

Director's Office: Doris Rueger.

Emergency Services Division: William Leigh-Manuell.

Energy, Environment & National Security Directorate: Kathleen Dargan, Jeanne Madaia, Bonnie McGahern.

Environmental Management Division: Beth Blevins.

Environmental Restoration Division: Maria C. Beckman, Anna M. Bou, Sheryl A. Golden, Michael F. Gremillion, Alan R. MacIntyre.

Environmental Sciences Department: Jeffrey B. Gillow, Thomas Roberts, Anna Seda, Sharon Zuhoski.

Environmental Services Division: Keith Klaus, Peter Pohlot.

Facilities & Operations: Pamela Yerry.

Fiscal Services Division: Anne Corr, Peter Ferrara, April Gray.

High Energy & Nuclear Physics: Angela Melocoton.

Human Resources Division: Bonnie W. Hulse, Brenda Kirk.

Independent Oversight Office: Joyce Mortimer, Margaret Sparrow.

Information Services Division: Betsy Schwartz, Michiko Tanaka, Madeline Windsor.

Information Technology Division: Vincent Bonafede, James McManus, Eileen Papa, Laurie Pearl, Christopher Weaver.

Instrumentation Division: William King.

Life Sciences: Karen Apelskog.

Medical Department: Jo-Ann Nasta, Peter Recksiek.

National Synchrotron Light Source Department: Mary Anne Corwin, Rodger Hubbard Jr., Alan Levine, Eileen Morello, Gary Weiner.

Nonproliferation & National Security Department: Joseph Carbonaro, Nancy Nelson, Donna Occhiogrosso, Michele Rabatin.

Office of Intellectual Property & Industrial Partnerships: Michael Greene.

Physics Department: John Boehle, Charles Butehorn, Marjorie Chaloupka, Joseph Cracco, Henry Diaz, Cornelius Donahue, Arthur Mango, Jacqueline Mooney, Arlene Rementer, William F. Sandhoff, William Schoenig, Bonnie Sherwood, William Smith, Edward Stein, Patricia Valli.

Plant Engineering Division: Patricia Bender, Roy Butler, Stuart Carroll, John Dowd, Bridget Geib, Cheryl Henderson, John Hynan

Procurement & Property Management Division: Tina Byrd, Cheryl Eleazer, Ronald Ondrovic, JoAnn Reed, John Small.

Radiological Control: Kenneth Boland, Andrea Epple, Nathaniel Foster, Guy Hartsough, Gregory Herman, Andrew Levine, Dennis Ryan, Joseph Vignola, Frank Zafonte.

Safeguards & Security Division: Sheryl Gerstman, Valerie Morton, Susan Rackett-Rossetti, Lisa Smith, Kathleen Walker.

Safety & Health Services Division: Kenneth Erickson, Linda Greves.

Staff Services Division: Kenneth Mohring.

Magnet Division: Scott Bell, Raymond Ceruti, G. Frank Corbin, Joseph Gormley, Donald Gosline, Gary Herbst, Dean Ince, William McKeon, Richard E. Meier, Domenick Milidantri, Thomas VanWinckel, Mitchell D. Williams.

Waste Management Division: Steven Coleman, Edward Gavin, Clayton Hamilton, Leo Palumbo, Ronald Prwivo, Warren Voegelin.

Healthline Lecture

Vital Aging: A New Vision of Growing Older, 4/23

Join Carolyn Gallogly, Associate Dean at St. Joseph's College, at noon next Tuesday, April 23, in Berkner Hall as she presents the Healthline Lecture, "Vital Aging: A New Vision of Growing Older." Gallogly will discuss the myths that many people hold about aging. She will also present current statistics and information related to those myths. Other topics will include: longevity, the life of the mind, relationships and sexuality, planning for living arrangements, changing careers, retirement, and leisure.

For more information, contact Mary Wood, Health Promotion Coordinator, Ext. 5923, or wood2@bnl.gov.

Russian Speakers Wanted

The Language Interchange Program (LIP) seeks Russian speakers to be matched with people who want to practice Russian informally. LIP is sponsored by BNL's English for Speakers of Other Languages Program, and LIP matches people who want to practice other languages with fluent speakers.

If you speak Russian and would like to participate, then contact Jen Lynch, Ext. 4894 or lynch@bnl.gov.

Join the BERA Family Camping Club

Spring has sprung! Employees, visitors, facility users, and their families are invited to join the BERA Family Camping Club for on-site and off-site camping adventures. Trailers and tents are welcome. For more information, contact Gerry Van der Laske, Ext. 3476, gerryv@bnl.gov.



Calendar

(continued)

Wednesday, 4/24

Verizon Wireless Demo

11 a.m. - 2 p.m., Berkner Hall. A representative will present BNLers with special rates on wireless service. Harry Campbell, 516-458-9122.

Thursday, 4/25

Take Our Daughters to Work Day

Daughters, ages 9-15, are invited to participate in this national day sponsored by the Ms. Foundation for Women. Susan Foster, Ext. 2888, foster2@bnl.gov.

— WEEK OF 4/29 —

Tuesday, 4/30

VoiceStream Wireless Demo

10 a.m. - 2:30 p.m., Berkner Hall. Special rates will be presented to BNLers on VoiceStream's wireless network. Richard Goll, (516) 343-5900.

Workshops: Cholesterol & Hypertension

Cholesterol workshop: 11:30 a.m.-12:15 p.m. Bldg. 490, small Conference Room. Participants must register in advance to have blood work done prior to the workshop.

Hypertension workshop: 12:30-1:15 p.m. Bldg. 490, small Conference Room. Topics will include nutritional foods, healthy dining out, easy cooking, travel monitoring for success. Program will be facilitated by a registered dietitian. For registration information, contact Mary Wood, Ext. 5923, wood2@bnl.gov.

— WEEK OF 4/29 —

Wednesday, 5/3

Noon Piano Recital

Eric Sun, the first performer featured in the Noon Recital Series, returns to BNL. Son of Caspar Sun, Waste Management Division, Eric Sun will play classical music.

Thursday, 5/2

BERA Bridge Club

7 p.m., Berkner Hall Cafeteria. Morris Strongson, Ext. 4192, mms@bnl.gov.

— WEEK OF 5/6 —

Friday, 5/10

***BERA Spring Fling**

6:30 p.m.-midnight at the Rockhill Country Club. \$15 per person includes hot and cold buffet and music by DJ Johnny. There will also be a cash bar. Purchase tickets at the BERA Sales Office, weekdays from 9 a.m. to 3 p.m. or from Laurie Pearl, Ext. 5520, Louie Nieves, Ext. 4897, or John McCaffrey, Ext. 2075.

Saturday, 5/11

***Atlantic City Bus Trip**

\$24 per person. Bus to the Showboat Hotel departs Brookhaven Ctr. at 8 a.m. and returns at 11 p.m. Tickets available at the BERA Sales Office, Berkner Hall, weekdays from 9 a.m. to 3 p.m. Andrea Dehler, Ext. 3347, or M. Kay Dellimore, Ext. 2873.

— WEEK OF 5/13 —

Thursday, 5/16

BAC Meeting

12:30-1 p.m., Berkner Hall, Room C. Brookhaven Advocacy Council Meeting, Open Session. www.bnl.gov/bac.

BERA Bridge Club

7 p.m., Brookhaven Ctr. South Room. Morris Strongson, Ext. 4192, mms@bnl.gov.

Saturday, 5/18

BNL Ballroom, Latin & Swing Dance Club: 10th-Anniversary Celebration Social

8 p.m.-midnight, special evening of contemporary ballroom, hot Latin, and retro swing, 10:30 p.m. awards ceremony. Marsha Belford, belford@bnl.gov or Ext. 5053.

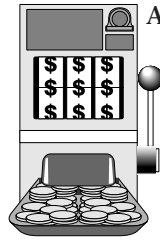
Note: This calendar is updated continuously and will appear in the Bulletin whenever space permits. Submissions must be received by the preceding Friday at noon to appear in the following week's Bulletin. Please enter the information for each event in the order listed above (date, event name, description, and cost) and send it to bulletin@bnl.gov. Write "Bulletin Calendar" in the subject line.

Make Plans Now for 2002 BERA Spring, Summer Events

The following BERA-sponsored events are open to all BNL employees, retirees, facility-users, visitors, and their immediate families. Buy tickets on weekdays, 9 a.m.-3 p.m. at the BERA Sales Office in Berkner Hall. Tickets are sold first come, first served. All departures are from the Brookhaven Center promptly at the times listed below. For more information, call Andrea Dehler, Ext. 3347, or M. Kay Dellimore, Ext. 2873.

Long Island Ducks Tickets

Tickets are \$10 each, nonrefundable. Tickets will be sold in pairs only with a limit of four tickets per person. The seats are in the second level, row J, seats 7-10. The first game is on Friday, May 3.



Atlantic City Bus Trip, 5/11

Cost is \$24 per person, age 18 or older only. Coin return to be announced. The coach bus will depart the Brookhaven Center at 8 a.m. for the Showboat Hotel and Casino on the Atlantic City Boardwalk, and will return at approximately 11 p.m. On the bus will be movies, games, and free rolls or donuts. Bring your own beverages.

Spirit Dinner Cruise, 7/3

Cost is \$89 per person. Join BERA on Wednesday, July 3, to celebrate Independence Day. Sail around on a luxury yacht past the Statue of Liberty, Ellis Island, and views of Manhattan. Round-trip bus transportation from BNL, a hot and cold buffet dinner, live music, and entertainment will be provided. This event is open to all of 12 years of age and older.

New York Yankee Baseball Game, 8/9

Cost is \$55 per person, includes ticket and bus transportation. BERA visits Yankee Stadium on Friday, August 9, to see the New York Yankees play the Oakland Athletics. The bus will leave at 4 p.m. from the Brookhaven Center, returning at approximately 11:30 p.m.

Classified Advertisements

Placement Notices

The Lab's placement policy is to select the best-qualified candidate for an available position. Candidates are considered in the following order: (1) present employees within the department/division and/or appropriate bargaining unit, with preference for those within the immediate work group; (2) present employees within the Laboratory; and (3) outside applicants. In keeping with the Affirmative Action Plan, selections are made without regard to age, race, color, religion, national origin, sex, disability or veteran status. Each week, the Human Resources Division lists new placement notices, first, so employees may request consideration for themselves, and, second, for open recruitment. Because of the priority policy stated above, each listing does not necessarily represent an opportunity for all people. Except when operational needs require otherwise, positions will be open for one week after publication. For more information, contact the Employment Manager, Ext. 2882; call the JOBLINE, Ext. 7744 (344-7744), for a list of all job openings; use a TDD system to access job information by calling (631) 344-6018; or access current job openings on the World Wide Web at www.bnl.gov/HR/jobs/default.htm.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees.

NS3081. MULTI-TRADE SUPERVISOR (T-6, reposting) - Requires a minimum of ten years' experience and knowledge within various building trades pertaining to industrial and residential facilities. Must be able to obtain and maintain Asbestos Supervisory certification. Previous supervisory experience highly desirable; experience and knowledge of MS Word, Excel, Outlook and MP2 programs is preferred; as is OSHA construction safety training. Will be responsible for supervision of multi-trade work effort in the Operations & Main-

tenance Division, including work assignments, scheduling, employee training, obtaining material, tools, and supplies, performance evaluation, attendance monitoring, grievance handling and technical direction. Will maintain records, coordinate work with other supervisors and provide technical assistance and information to customers as required. Reports to the General Supervisor of Buildings Maintenance, Plant Engineering Division.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

GR2853. RADIOLOGICAL CONTROL TECHNICIAN TRAINEES - This is an entry level 3 year training program designed to train individuals to work as Radiological Control Technicians. Program will involve six months in classroom and 2.5 years of on-the-job practical training. Will gain skills and knowledge required to perform radiological surveys, evaluate areas for the presence of radiation and radioactive material, evaluate material and personnel for release to uncontrolled areas, protect personnel working in an area where radiation and radioactive materials are present and respond to radiological emergencies. Requires a high school diploma or equivalency, knowledge of mathematics and science fundamentals, knowledge of systems and fundamentals of process, operations and maintenance. Must be able to follow procedures, write permits, prepare survey maps, write reports; have good communication skills and the ability to handle personnel protective and radiological survey equipment. For further information, contact rawn@bnl.gov or send your resume to G. Rawn, BNL, Bldg. 703, Upton, New York 11973-5000. Laboratory employees need to pick up an application package in the Human Resources Division. Completed packages must be submitted by April 26, 2002. Radiological Control Division.

TB3080. PLUMBER A - Under minimum supervision lays out, constructs or installs, repairs, and maintains water and gas distribution systems, related facilities and auxiliary equipment and equipment utilizing water, gas and heat distribution services. Plant Engineering.

Toastmasters Host 'Speakers' Showcase'

Visit with the BNL Toastmasters on Tuesday, April 23, from noon to 1 p.m., for a special "Speakers' Showcase" in Berkner Hall, Room D. The program will feature speeches and evaluations by winners of area speech contests, as well as opportunities to learn about Toastmasters International.

Coffee will be provided, and you may purchase lunch or bring your own. All are welcome, but preregistration is required. For more information, contact Nancy Manning, Ext. 5744, nmanning@bnl.gov.

BERA Volleyball League Standings

Standings as of March 29, 2002

Open League A

Shank, Carry, Throw 62 - 33
Death Volley 61 - 34
UCB Roof Company 45 - 50
Far Side 22 - 73

Open League B

Final Standings

Easy Spikers 50 - 10
What Ball, Where? 43 - 17
PHENIX Fire 37 - 23
Late Entry 34 - 26
Setting Ducks 32 - 28
Starmageddon 26 - 34
Bumpin Ugliers 16 - 44
Six Samurai 2 - 58

Mixed League 2

Upsetters 38 - 10
Nuts and Bolts 39 - 12
Group Sets 29 - 19
Spiked Jello 29 - 22
Underdogs 20 - 28
Wazups 11 - 37
Newbies 2 5 - 43

Mixed League 3

Final Standings

Upton Ups 35 - 16
New Blood 36 - 20
Net Workers 36 - 21
NWO 19 - 31
Newbies 3 6 - 51

Services Move to Web New Master List Needed

The service announcements that typically appear in the Bulletin on the first Friday of each month will soon be available to BNL internal audiences at <http://intranet.bnl.gov/bulletin/services.htm>. Services will only appear on the Web at the request of the BNL employee placing the ad. The full service list will continue to be printed in the Bulletin; however, due to limited space, services will not appear as regularly.

The Bulletin is establishing a new master service list and requests that all BNLers who wish to advertise a service, including those who have previously listed services with the Bulletin, submit a new service ad form. Service forms are available in the Bulletin lobby, Bldg. 134, on the Web at www.bnl.gov/bnlweb/pubaf/bulletin.html, or mailed to you at your request, call 344-2345.