

## BNL's Davis Wins Fermi Award

On October 9, Secretary of Energy Spencer Abraham named John Bahcall, Raymond Davis Jr. and Seymour Sack as winners of the 2003 Enrico Fermi Award.

This presidential award recognizes scientists of international stature for their lifetimes of exceptional achievement in the development, use or production of energy (broadly defined to include the science and technology of nuclear, atomic, molecular, and particle interactions and effects).



Raymond Davis

The award was presented on October 22 in Washington, D.C., at the "Nuclear Energy & Science for the 21st Century: Atoms for Peace Plus Fifty" conference which marks the 50th anniversary of the speech by President Eisenhower to the United Nations General Assembly on the peaceful uses of the atom.

Bahcall and Davis were honored for their research in neutrino physics, Sack, for his contributions to national security. The winners will receive a gold medal and a citation signed by the President and Secretary of

Energy. Sack will receive a \$187,500 honorarium, while Bahcall and Davis, who share an award, each receive a \$93,750 honorarium.

"The contributions these distinguished scientists have made to understanding the world around us and to our national security are immense," announced Abraham. "Their lifetime of innovative research follows in the tradition of Enrico Fermi, the great scientist we commemorate with this award."

Bahcall and Davis were cited for "innovative research in astrophysics leading to a revolution in understanding the properties of the elusive neutrino, the lightest known particle with mass." Bahcall, a theorist, and Davis, an experimentalist, helped determine that neutrinos have mass and that electron neutrinos oscillate into many "flavors" on their way from the sun to the earth.

(continued on page 3)

## Research at Cornell, BNL Leads to Chemistry Nobel

Roderick MacKinnon, a visiting researcher at BNL's National Synchrotron Light Source (NSLS), has won half of this year's Nobel Prize in Chemistry for work explaining how a class of proteins helps to generate nerve impulses — the electrical activity that underlies all movement, sensation, and perhaps even thought.

The work leading to the prize was done primarily at the Cornell High Energy Synchrotron Source and at the NSLS.

The proteins, called ion channels, are tiny pores that stud the surface of practically all living cells. These channels allow the passage of potassium, calcium, sodium, and chloride molecules called ions. Rapid-fire opening and closing of these channels releases ions, moving electrical impulses from the brain in a wave to their destination in the body.



NSLS at BNL

Starting in 1998, after ten years of studying the biophysics of ion channels, MacKinnon published a series of structural solutions — high-resolution molecular-level "snapshots" of ion channels, produced at Cornell and BNL. These structures literally showed the scientific community how electrical signaling occurs.

MacKinnon, a biophysicist and self-taught x-ray crystallographer, is a professor at Rockefeller University and an investigator at the Howard Hughes Medical Institute. He shares this year's chemistry Nobel with Peter Agre of The Johns Hopkins University School of Medicine.

— Karen McNulty Walsh

For more information on MacKinnon's research and the facilities involved, go to the following:

- [www.bnl.gov/bnlweb/pubaf/pr/2003/bnlip100803.htm](http://www.bnl.gov/bnlweb/pubaf/pr/2003/bnlip100803.htm)
- [www.bnl.gov/bnlweb/pubaf/pr/2003/bnlpr043003.htm](http://www.bnl.gov/bnlweb/pubaf/pr/2003/bnlpr043003.htm)
- [www.bnl.gov/bnlweb/pubaf/pr/2003/NSLS\\_backgrounder.htm](http://www.bnl.gov/bnlweb/pubaf/pr/2003/NSLS_backgrounder.htm)
- <http://nslsweb.nsls.bnl.gov/nsls/>
- [www.rockefeller.edu/](http://www.rockefeller.edu/)
- [www.chess.cornell.edu/](http://www.chess.cornell.edu/)
- [www.hhmi.org/](http://www.hhmi.org/)

## NASA, DOE Dedicate New NASA Facility at BNL



Roger Stoutenburgh D1321003

As BNL Director Praveen Chaudhari (center) wields the scissors at the opening of BNL's new NASA Space Radiation Laboratory, with him behind the ribbon are: (from left) Dennis Kovar, DOE Office of Nuclear Physics Associate Director; Michael Butler, DOE Brookhaven Area Office; Patricia Acampora, New York State (NYS) Assemblywoman; Derek Lowenstein, Collider Accelerator Department Chair; John Schumacher, NASA Chief of Staff; Timothy Bishop, U.S. Representative, NYS 1st District; Chaudhari; Raymond Orbach, DOE Office of Science Director; General Jefferson Howell Jr., Johnson Space Center Director; Shirley Strum Kenny, Brookhaven Science Associates Board Chair; astronaut John Grunsfeld, Chief NASA Scientist; Marvin Gunn Jr., DOE Chicago Operations Office Manager; Mary Kicza, NASA Associate Administrator for Biological & Physical Research; Michael Holland, DOE Brookhaven Area Office Manager; and Walter Schimmerling, NASA Space Radiation Health & Biology Program Scientist.

On Tuesday, October 14, National Aeronautics & Space Administration (NASA) Chief of Staff John Schumacher and DOE's Office of Science Director Raymond Orbach joined BNL Director Praveen Chaudhari and invited guests in a ceremony to mark the opening of the new NASA Space Radiation Laboratory (NSRL) at BNL.

The \$34-million facility, jointly managed during a four-year construction project by DOE's Office of Science and NASA's Johnson Space Center (JSC), is one of the few places in the world that can simulate the harsh cosmic and solar radiation environment found in space.

The new facility employs beams of heavy ions extracted from BNL's Booster accelerator, the best in the United States for radiobiology studies. The NSRL features its own beam line dedicated to radiobiology research, as well as state-of-the-art specimen-preparation areas.

Scientists from NASA, from national laboratories and institutes in the U.S. and Europe, and from universities in the U.S., Europe, and Japan will use NSRL.

At the ceremony, after a welcome from Praveen Chaudhari, BNL Director; Michael Holland, Manager of DOE's Brookhaven Area Office, and Shirley Strum Kenny, Brookhaven Science Asso-

ciates Board Chair, John Schumacher, NASA Chief of Staff; Raymond Orbach, DOE's Office of Science Director; and U.S. Representative Timothy Bishop, First District of New York State, all gave brief talks, as did General Jefferson Howell Jr., NASA's JSC Director, and Dennis Kovar, Associate Director of DOE's Office of Nuclear Physics in the Office of Science (see excerpts below).

The ribbon was then cut, formally opening the new facility. Tours of the NSRL followed, and the visitors learned about some of NSRL's ongoing studies. After lunch, the NSRL tours continued, and many visitors also took a bus to BNL's Science Museum to see a new Mars exhibit (see page 2). Two free public lectures were also scheduled that day: at noon, Ronald Ernst of NASA's Education Services Program at the Goddard Space Flight Center discussed "The Past, Present, and Future of NASA," and at 4 p.m., astronaut John Grunsfeld, NASA Chief Scientist, talked about "Servicing the Hubble Space Telescope: Answering Fundamental Questions About Our World and Our Place in the Universe."

— John Galvin

For more information, including more about earth-based research on space-radiation risks, go to [www.bnl.gov/bnlweb/pubaf/pr/2003/bnlpr101403.htm](http://www.bnl.gov/bnlweb/pubaf/pr/2003/bnlpr101403.htm), and view the event from [www.bnl.gov/video](http://www.bnl.gov/video).

"It is my pleasure to welcome all of you to the NSRL inauguration. Whenever two institutions come together to perform a common mission, that day is a very special day, and that event is a very special event. This Laboratory has a very broad base in science. We want NASA to take advantage of our strengths."

— Praveen Chaudhari, BNL

"It's extremely satisfying to me and those in my office to know that the completed NASA Space Radiation Laboratory is meeting NASA's expectations. I do believe that the successful partnership that we have here with NASA and DOE can be a model for other interagency partnerships."

— Michael Holland, DOE

"Today we begin to study the effects of cosmic rays on the gallant men and women who explore the frontiers of space. What we can learn can also lead us to new understandings of the broadest significance to the health of all people."

— Shirley Strum Kenny, BSA

"The excitement, the intellectual dynamite, the exploratory nature that human beings possess call for exploration [in space]. What we are doing here is putting together the fundamentals that will enable us to construct the vehicles that we need and the protection that we need in order to carry out the destiny of man. NASA is very fortunate to have that as its charge. And we are very fortunate to be working with them in this facility."

— Raymond Orbach, DOE

"This laboratory [NSRL] is going to play a key part in helping us go out beyond lower Earth orbit. Because of NASA's dedication to the human side of it, we have some wonderful scientists and engineers who work very hard to learn more so that we can exist in a place with no atmosphere . . . We are excited about the days ahead."

— General Jefferson Howell Jr., NASA

"At NASA, our three mission areas are: understanding and protecting our home planet, exploring the universe and searching for life, and inspiring the next generation — all three are things that will go on right here [at NSRL at BNL]."

— John Schumacher, NASA

"It's an occasion to celebrate the very special partnership between DOE, NASA, and Brookhaven Lab that made this all possible. When we look to the future, we'd like to assure NASA that we in Nuclear Physics, the Office of Science, and BNL are committed to ensuring that the space radiation laboratory mission is successfully achieved."

— Dennis Kovar, DOE

"This new facility [NSRL] allows the process [advancement and dissemination of knowledge] to go forward in a fashion that I am certain will be productive, not just for the people of the first congressional district, but for all of us, throughout the world."

— Timothy Bishop, U.S. Congress



## 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 Chris Carter, 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. Hall) 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. All faiths are welcome. [www.bnl.gov/bera/activities/choir/](http://www.bnl.gov/bera/activities/choir/).

#### Weekdays: Free English for Speakers of Other Languages Classes

Beginner, Intermediate, and Advanced classes. Various times. All are welcome. Learn English, make friends. See [www.bnl.gov/esol/schedule.html](http://www.bnl.gov/esol/schedule.html) for schedule. 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. Christine Carter, Ext. 2873.

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

Noon- 12:45 p.m., Brookhaven Center North Room. Adam Rusek, Ext. 5830 or rusek@bnl.gov.

#### Tuesdays: Welcome Coffee

10-11:30 a.m. Rec. Hall. Hospitality event. Come and meet friends. The first Tuesday of every month is special for Lab newcomers and leaving guests. Hospitality Chair Monique de la Beij, 399-7656.

#### Tuesdays: BNL Music Club

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

#### Tuesdays: Singles Club

5:15 p.m., Brookhaven Center. Contact: Jean, Ext. 4391.

#### Tuesdays: Toastmasters

1st and 3rd Tuesday of each month, 5:30 p.m., Bldg. 463, room 160. Guests, visitors always welcome. [www.bnl.gov/bera/activities/toastmasters/default.htm](http://www.bnl.gov/bera/activities/toastmasters/default.htm).

#### Tuesdays & Thursdays: Aerobics

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

#### Tuesdays & Thursdays: Aqua Aerobics

5:15-6:15 p.m. Christine Carter, Ext. 2873.

#### Wednesdays: On-Site Play Group

10 a.m.-noon. Rec. Hall. An infant/toddler drop-in event. Parents meet while children play. Suzanne Surrow, 476-6610.

#### Wednesdays: Farmer's Market

11:30 a.m.-1:30 p.m., Berkner Hall parking lot

#### Wednesdays: Weight Watchers

Noon-1 p.m. Michael Thorn, Ext. 8612.

#### Wednesdays: Yoga Practice

Noon-1 p.m., Brookhaven Center. Free. Ila Campbell, Ext. 2206.

#### Wednesdays: Open Chess Night

5-8 p.m., Rec. Hall. Christine Carter, Ext. 5090.

#### Wednesdays: Exercise 101

5:15-6 p.m., Rec. Hall. \$4 per class or \$35 for 10 classes. Stretching, low-impact aerobics, and other exercises. Pat Flood, Ext. 7886.

#### Fridays: Family Swim Night

5-8 p.m. at the BNL Pool. \$5 per family.

#### Fridays: BNL Social & Cultural Club

6-9 p.m. North Ballroom, Brookhaven Ctr., dance lessons, 9-11:30 p.m. general dancing. Rudy Alforque, Ext. 4733, rudy@bnl.gov.

#### Fridays: Jiu Jitsu Club

6-7 p.m. in the gym. All levels, ages 6 and above. \$10 per class. Tom, Ext. 4556.

### — WEEK OF 10/27 —

#### Monday, 10/27

##### 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, 10/28

##### \*Health Promotion Program Talk

Noon-1 p.m., Hamilton Seminar Room, Bldg. 555. Join author and registered dietician Brenda Davis when she presents "Cutting Edge Vegetarian Nutrition: Good Nutrition Information for Vegetarians and Non-Vegetarians." Check your mailbox for registration forms. Michael Thorn, Ext. 8612.

#### Friday, 10/31

##### \*Children's Halloween Party

5 p.m., Rec. Bldg. The Hospitality Committee invites the Lab community to wear a costume to the party and to bring a cold dish to share. At 7 p.m., everyone will go trick-or-treating on site. Parents may wear costumes, too! Monique de la Beij, 399-7656.

##### \*BERA Halloween Party

6-11 p.m., Brookhaven Center. All BNLers age 18 and over are invited. There will be a DJ, dancing, costume prizes, a light dinner, and cash bar. Tickets, at \$10 per person, can be purchased at the BERA Sales Office now through Wednesday, October 29. Everyone must have a ticket. Christine Carter, Ext. 5090.

## In Memoriam — Thomas Albertina

Thomas Albertina, who had served BNL for 35 of his 55 years, died on December 21, 2002. He had been on long-term disability after combating a long illness.

Albertina joined what was the Applied Mathematics Department (AMD) as a computer operations trainer on January 16, 1967.

"Tommy was an excellent computer operator and totally reliable team member," said Ed McFadden of the Information Technology Division (ITD), who had worked with Albertina for many years. "As he became more senior, he led and trained many others. He was very popular in the division and on his 35th anniversary, we all went to Berkner to celebrate with a party for him. Although he was not well, it was a happy occasion, and he knew how highly he was valued by his co-workers."

As AMD evolved into ITD, Albertina was involved with all the major projects undertaken.

He handled many backup systems, including, for example, the Vax Cluster backups, Abars and the Epoch systems. Co-workers recall that his strength was in dealing with projects that needed persistence and attention to fine detail.

Arnie Peskin, recently retired, who headed the Computing & Communications Division, recalls, "About a dozen years ago, the computing facility changed from a manpower-intensive operation to one that was more automated and required fewer operations staff. As one of the senior operators, Tom helped ease that significant and somewhat painful transition."

In November 2000, Albertina joined the Physics Department



as a senior technical specialist. Robert Liegel, his supervisor there, recalls, "Thom was in charge of printer maintenance. He always gave his best efforts to the job and looked ahead to ensure that everything would run smoothly. I would not classify Thom as a 'trouble maker.' But, if normal printer maintenance did not fully occupy his time, he would travel the building looking for trouble — printer trouble, that is."

"It was during this period that his illness was diagnosed," continued Liegel. "Even with a gloomy future, Thom maintained a cheerful attitude. He greeted everyone with a smile and warm hello until his speech became difficult, at which time

he carried printed flash cards with appropriate greetings. During his time here, he engrained himself into the hearts of everyone he met. I constantly received notes, e-mails, and letters of appreciation on the quality and dedication of his work."

"Thom was my neighbor in Lake Ronkonkoma for about 30 years," said Tom Lambertson, who manages Central Shops. "He always referred to his wife Lillian as 'my bride,' and he was always on the go with his sons, following their progress and encouraging them. Thom had a work ethic like no other — work was what he had to do, and he had to do it to perfection . . . like the handlebar mustachio he was so proud of. 'Gotta have the comb and the wax Tom . . . keep it right!' he would say. I miss Thom, and smile in memory of him."

Thomas Albertina, a resident of Lake Ronkonkoma, is survived by his wife Lillian and sons Keith and Cory.

— Liz Seubert

## New Mars Exhibit Opens at BNL's Science Museum

*Built by Plant Engineering's Cabinet Shop; Lit by the Electrical Shop*

The new out-of-this-world "Marscape" exhibit in the BNL Science Museum was a big hit with the first visitors to view it — approximately 200 students from three local school districts last week.

Gail Donoghue, Science Museum Director, had the idea of building a new educational exhibit on Mars, which she hoped would be ready for the ribbon-cutting day of the new National Aeronautics & Space Administration Space Radiation Laboratory (see story on page 1). She met with Bruce Laakman, Multicraft Supervisor of the Cabinet Shop in the Plant Engineering (PE) Division, and he thought that it could be done. Laakman, with his team, Vincent ("Cappy") Susinno, Chris Frosina, and Jim Giacalone, went to work building the exhibit, which they completed in less than four weeks.

Says Laakman, "I see this as another fine project built at BNL, for BNL, by BNL employees. This four-person collaborative team enjoyed the challenge of creating something unique."

Adds Donoghue, "The cabinet shop did a wonderfully creative job. And John Read, of PE's Electrical Shop, gave the exhibit its museum-quality lighting effect. We have already seen how much visiting students and the BNL community enjoy the exhibit. This is only the beginning of our NASA partnership, and we look forward to more programs in the future for students from first to eighth grade."

— Jane Koropsak



The four-person collaborative team in the Plant Engineering Division's Cabinet Shop who built the Mars exhibit for the BNL Science Museum are: (from left) Chris Frosina, Cappy Susinno, Jim Giacalone, and Supervisor Bruce Laakman.



BNL sign painter Cappy Susinno adds a finishing touch to the Mars exhibit. More of Susinno's paintings will be on display during the upcoming Lab community art show (see page 4).



About 200 middle school and high school students from the North Babylon, Longwood and Rocky Point school districts visited the BNL Science Museum on October 15 to learn all about living in space from Ronald Ernst (above, left), a member of the National Aeronautics & Space Administration (NASA) Aerospace Education Services Program. They also toured the new interactive exhibit on Mars recently installed in the museum. Ernst's series of talks were given in conjunction with the commissioning of the NASA Space Radiation Laboratory at BNL (see story, page 1). In this photo, Ernst is telling Rocky Point middle school and high school students about the features of a model of the \$20-million, 300-pound space suit that astronauts wear on space walks.

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# Excitement, Passion of Space Shuttle Inspires Book by BNL's Phil Harrington



Roger Stoutenburgh 00061003

Phil Harrington

"Vibrant — dynamic — exciting" — that's how BNLer Phil Harrington describes the U.S. space shuttle program, and that's how he hopes his words show it in his book, *The Space Shuttle, A Photographic History*, which appeared in May of this year. The book combines stunning photos by the astronauts themselves as well as Roger Ressmeyer of the Corbis agency, captioned by Harrington, with his tale of history, science, and adventure that presents the shuttle astronauts as the heroes, the great explorers of modern times, "pushing the limits of discovery," and "leaving the safe haven of planet Earth and venturing out into the cosmos."

Harrington wrote for a broad spectrum of readers, he says, so he aimed at being "technically accurate, but not dull." The book aroused instant interest. Within a few weeks of its appearance, Harrington had been interviewed on about two dozen radio shows across the country,

and was invited to Washington, DC, to appear on several television shows to talk about the book. He also did a book signing at the Smithsonian's National Air & Space Museum. "For a short time, it seemed I became an instant celebrity — just add water!" he jokes.

Harrington has been fascinated by stars and space ever since he watched an eclipse of the moon for a sixth-grade class assignment. He has published six books in this field since 1990. But how did he come to write about the shuttle?

"I had just compiled a list of astronomical events for a 2004 wall calendar on astronomy for Browntrout Publishers, which produces some great calendars," Harrington explains. "A few weeks after the Columbia disaster last February, my editor at Browntrout asked if I'd be willing to work with them to create a photographic history of the shuttle. The book, intended to be a cel-

ebration of the program both in picture as well as in word, would trace its development and commemorate its many successes. I was honored, and immediately set to work."

In addition to the wealth of information Harrington sent them for the calendar, Browntrout had plenty of other evidence of his talent for writing in this field. His first book, *Touring the Universe Through Binoculars*, published in 1990 by John Wiley & Sons, was written to show the beauty and information available to anyone who has a pair of binoculars and knows where and how to look at the sky.

*Star Ware, The Amateur Astronomer's Ultimate Guide to Choosing, Buying, and Using Telescopes and Accessories* is another Harrington book published by Wiley. First published in 1994, *Star Ware* is now in its third edition. Another successful book published in 1994, *Astronomy For All Ages* (Globe Pequot Press), was co-authored with Edward Pascuzzi, a physics teacher at Glen Cove High School. The book contains more than 50 "get-acquainted" activities that are designed for adults and children who want to learn about the night sky together.

"That book seems useful for many people," comments Harrington. "We included activities for several different ages, and a wide range of people enjoy using it."

Other inviting books Harrington has produced include *Eclipse* (Wiley, 1997), which has been translated into German, Chinese, and Polish, and *The Deep Sky, An Introduction* (Sky Publishing, 1998), in which, he says in his description of the book, he hopes to pass on some of the enthusiasm and love of observing distant star clusters, nebulae, and galaxies that he received as a youth reading accounts by the famous amateur astronomer Walter Scott Houston in *Sky & Telescope* magazine.

Harrington's latest book,

*Star Watch, The Amateur Astronomer's Guide to Finding, Observing, and Learning about Over 125 Celestial Objects*, was released this July by Wiley. Its aim is to introduce the night sky to new backyard stargazers.

Harrington's broad educational background includes a bachelor's degree in science education from Wagner College on Staten Island, another, in mechanical engineering, from New York Institute of Technology (NYIT), and a master's degree in environmental technology, also from NYIT. By day, he supervises on-site safety and health course development as a member of the Lab's Training & Qualifications Program Office.

So, when does he write?

"Mostly, I write in the very early morning," he says. "There's just me and my dogs, everyone else in the house is asleep, and I can concentrate."

Harrington's power of concentration allows him to complete not only books, but also articles on the sky and stars. He is an editor of *Astronomy* magazine, the world's largest periodical on the subject, and contributes several articles each year. From 1982 until 1998, he also taught adult education classes at the Vanderbilt Planetarium in Centerport. His courses included introductory astronomy, observational astronomy, telescopes and equipment, and astrophotography. Presently, he teaches courses in planetary and stellar astronomy at the Riverhead campus of Suffolk County Community College.

"I enjoy educating people," says Harrington. "At BNL, I am teaching people things they need to know for their jobs, which I find very satisfying. But through my books, articles, and classes on the sky and stars, I hope I am giving information about a side of life that people may not need to know, but that will give them incredible beauty, wonder, and adventure as they forget the earth and commune with the universe."

— Liz Seubert

## Ray Davis wins Fermi Award

(cont'd.)

Davis, 88, received his B.S. and M.S. degrees in chemistry from the University of Maryland and his Ph.D. degree from Yale University. From 1948 to 1984 he was a member of BNL's Chemistry Department, retaining a guest appointment after 1984, when he became Research Professor at the University of Pennsylvania. He was awarded the Nobel Prize in Physics in 2002.

The Fermi Award, which dates to 1956, is administered by DOE for the White House. It honors the memory of Enrico Fermi, leader of the group of scientists who, on December 2, 1942, achieved the first self-sustained, controlled nuclear reaction at the University of Chicago. For more information on the 2003 awards and on Raymond Davis, go to [www.bnl.gov/bnlweb/pubaf/pr/2003/doepr100903.htm](http://www.bnl.gov/bnlweb/pubaf/pr/2003/doepr100903.htm) and [www.bnl.gov/bnlweb/raydavis/](http://www.bnl.gov/bnlweb/raydavis/), respectively.

### Past BNL recipients of the Fermi Award:

**Maurice Goldhaber**, 1999, for research in fundamental nuclear and particle physics, and scientific leadership;

**Richard Setlow**, 1988, for his contributions to radiation biophysics and molecular biology, and discovery of DNA repair processes;

**Gerald Tape**, 1987, for advancement of atomic energy worldwide, and advocacy of nonproliferation on nuclear weapons;

**Ernest Courant**, 1986, for contributions to particle-acceleration physics, and invention of strong focusing; and

**M. Stanley Livingston**, 1986, for development of particle accelerators, and discovery of strong focusing.

## Arrivals & Departures

### Arrivals

Santanu Chaudhuri ..... Chemistry  
David Grills ..... Chemistry  
Michael Kretschmann ..... ESD  
Laura Mgrdichian ..... CEGPA

### Departures

Stephen Bueltmann ..... Physics  
Michael Curtis ..... Plant Eng.  
Emmanuel Dador ..... OMC  
Brendan Fox ..... Physics  
Elaine Landry ..... C-A

## Health Promotion Program Talk, 10/28

Join author and registered dietician Brenda Davis from noon to 1 p.m. in the Hamilton Seminar Room, Bldg. 555, where she will present "Cutting Edge Vegetarian Nutrition: Good Nutrition Information for Vegetarians and Non-Vegetarians."

Learn the fine details of the nutrients of concern to vegetarians or vegans — specifically protein, iron, calcium, vitamin D, vitamin B12 and essential fatty acids.

Davis is a leader in her field and an internationally acclaimed speaker. She is a past chair of the Vegetarian Nutrition Dietetic Practice Group of the American Dietetic Association and is author of five books. She will sign copies of her books, *The New Becoming Vegetarian* and *Becoming Vegan*, before and after her talk.

Check your mailbox for registration forms. For more information, call Michael Thorn, Ext. 8612.

## Calendar

(continued)

Saturday, 11/1

### \*Diwali 'The Festival of Lights'

3:15 p.m., Berkner Hall. Tickets bought by 11/24 cost \$11/adults, and \$7/children ages 5-12. After 11/24, tickets cost \$12/adults, and \$8/children ages 5-12. Contact Piyush Joshi, Ext. 3847, [joshi@bnl.gov](mailto:joshi@bnl.gov); Kumi Pandya, Ext. 7734, [pandya@bnl.gov](mailto:pandya@bnl.gov); Achyut Topé, Ext. 5672, [tope@bnl.gov](mailto:tope@bnl.gov); or Sharadha Sambasivan, Ext. 4862, [sharadha@bnl.gov](mailto:sharadha@bnl.gov) by 10/30. See also page 4.

## — WEEK OF 11/3 —

Tuesday, 11/4

### Caring Friends Meet

Noon, Berkner Hall, Room D. An informal support group meets to serve as a resource for individuals experiencing grief and the many emotions following the loss of a loved one. Gatherings are on the first Tuesday of each month. All are welcome. For more information, call Pat Hein, Ext. 3962, or Gerry Van Derlaske, Ext. 3476.

Wednesday, 11/5

### Noon Recital, Harpist Boldachev

Noon, Berkner Hall. Following acclaimed harp recitals last year in Prague and Llangollen, Wales, 13-year-old Sasha Boldachev appears at BNL on his first U.S. concert tour.

## WEEK OF 11/10

Tuesday, 11/11

### BNL Closed to Honor Veterans' Day

No Bulletin will appear this week.

Wednesday, 11/12

### Brookhaven Lecture

4 p.m., Berkner Hall. John O'Hara, Energy Sciences & Technology Department, will talk about understanding and improving crew performance in complex systems.

Thursday, 11/13

### Community Advisory Council Meeting

6:30 p.m., Berkner Hall, Room B. Open to the public. See <http://www.bnl.gov/community/CAC.htm>.

Saturday, 11/15

### \*Defensive Driving

9 a.m.-3:30 p.m., Mount Sinai High School. \$35/person. See notice, page 4.

## — WEEK OF 12/1

Tuesday, 12/2

### Caring Friends Meet

Noon, Berkner Hall, Room D. An informal support group meets to serve as a resource for individuals experiencing grief and the many emotions following the loss of a loved one. All are welcome. For more information, call Pat Hein, Ext. 3962, or Gerry Van Derlaske, Ext. 3476.

Saturday, 12/6

### Shopping Trip to Peddler's Village

\$15 per person. Bus leaves BNL at 9 a.m. and returns to BNL at 7 p.m. Peddler's Village is a country village in Pennsylvania with 70 specialty shops that sell a wide variety of merchandise. Purchase tickets at the BERA Sales Office. Christine Carter, Ext. 5090.

Sunday, 12/7

### Radio City Holiday Show

\$76 per person. Sold out. Christine Carter, Ext. 5090.

## — WEEK OF 12/8

Thursday, 12/11

### Community Advisory Council Meeting

6:30 p.m., Berkner Hall, Room B. Open to the public.

## — WEEK OF 12/15

Thursday, 12/18

### Blood Drive

9:30 a.m.-3 p.m., Brookhaven Center. Susan Foster, [donateblood@bnl.gov](mailto:donateblood@bnl.gov).

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

