



Roger Stoulenburgh 01540902

## BNL, BESSY Agree to Share Electron-Beam Expertise

**B**NL and BESSY, the German synchrotron radiation research institute, recently signed a memorandum of understanding to share their expertise and experience in the science and technology underlying high-brightness electron beams. These beams are used in accelerator-based sources of very intense light, called free electron lasers (FELs), as well as in electron-cooling of hadron beams.

The memorandum was signed by Peter Paul (above, center), BNL's Interim Director, Wolfgang Eberhardt, BESSY's Scientific Director, Eberhard Jaeschke (above, right), BESSY's Technical Director, and Ilan Ben-Zvi (above, left), Director of the BNL Accelerator Test Facility (ATF).

BNL and BESSY are each perfecting an FEL that is currently generating ultraviolet light. Both are expected to produce even more intense light in the form of x-rays in the future. The memorandum allows BNL and BESSY to exchange scientists, en-

gineers and technicians, who will form joint groups to develop, design, and build key FEL parts.

Brookhaven's FEL is the only facility in the world designed to generate light through the interaction of fast-moving electrons and a laser using a process called high-gain harmonic generation (HG). This process was demonstrated for the first time at the ATF in 1999. In August, BNL's FEL generated a record 266-nanometer-wavelength (ultraviolet) light by using a simpler process, called self-amplified spontaneous emission (SASE), in which electrons interact with the light they emit while being accelerated.

"This inter-laboratory cooperation is most timely, because it will allow us to exchange talents and ideas," says Ben-Zvi. "It will also increase the likelihood of getting encouraging results more quickly and lead to exciting scientific milestones in the future." — Patrice Pages

## Auditor Renews BNL's Registration To Rigorous Environmental Standard



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Exchanging congratulations are: (from left) BNL Deputy Director Tom Sheridan, EMS Program Manager George Goode, BNL Interim Director Peter Paul, and Environmental Services Division Manager Lori Cunniff.

**A**fter conducting a rigorous third-party review this past June, an independent auditor has renewed BNL's ISO 14001 registration, confirming the quality of the Lab's environmental management system (EMS).

The International Organization for Standardization's ISO 14001 is a globally recognized standard that defines the structure of an organization's environmental management system for purposes of improving the organization's environmental performance.

ISO 14001 requires an organization to identify potential environmental impacts and establish controls needed to minimize impacts, to monitor and communicate environmental performance, and to establish a formal process for continually improving the system. In October 2001, BNL became the first national laboratory and first Long Island-based organization to obtain registration to the ISO 14001 standard.

"These audit results are quite positive and show that continual improvement is important to Brookhaven," said

Note: For more information, go to [www.bnl.gov/bnlweb/pubaf/pr/2002/bnlpr082702.htm](http://www.bnl.gov/bnlweb/pubaf/pr/2002/bnlpr082702.htm).

George Goode, EMS Program Manager. "Clearly, the Lab has implemented the ISO 14001 system and is beginning to realize some real benefits."

The auditor, NSF International Strategic Registrations, Ltd., an environmental review firm from Ann Arbor, Michigan, singled out 12 aspects of BNL's program as being particularly noteworthy.

These included the Lab's use of a "lessons learned" program to develop relevant preventative actions, its system to track and correct training deficiencies, and its systems for identifying environmental protection priorities and tracking issues.

NSF reviewers also noted that BNL's pollution-prevention program has continued to grow, now generating more proposals from scientists than operational personnel. The fact that the scientific staff is becoming engaged in the pollution-prevention program is evidence of the improved environmental awareness produced by BNL's EMS.

— Peter Genzer

### RHIC & AGS Annual Users' Meeting

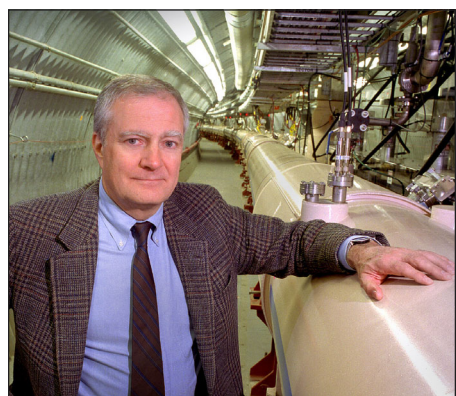
'Talking Turkey at RHIC: Beyond First Collisions'  
Friday and Saturday, September 20 & 21, 2002, 9 a.m.-5 p.m.

To register for the meeting, contact Kelly Guiffreda, [guiffreda@bnl.gov](mailto:guiffreda@bnl.gov).  
For additional information, go to [www.bnl.gov/rhic\\_ag/users\\_meeting/](http://www.bnl.gov/rhic_ag/users_meeting/)

## Four BNL Scientists Named American Physical Society Fellows

Four BNL scientists were elected as Fellows of the American Physical Society (APS) for the year 2001. Representing more than 42,000 members from all around the world, APS promotes the advancement of the knowledge of physics, in the belief that an understanding of the nature of the physical universe will benefit all humanity. The APS also publishes the world's most prestigious and widely read physics research journals, such as *Physical Review Letters*. The scientists and their citations are listed below.

### John H. Marburger III



Roger Stoulenburgh 01114400

**John H. Marburger III** — For his contributions to laser physics and for his scientific leadership as Director of Brookhaven National Laboratory. Marburger served as BNL Director from March 1998 to September 2001. He is now Director of the Office of Science & Technology Policy where he advises the President on all areas of science, from basic research to the training of scientists.

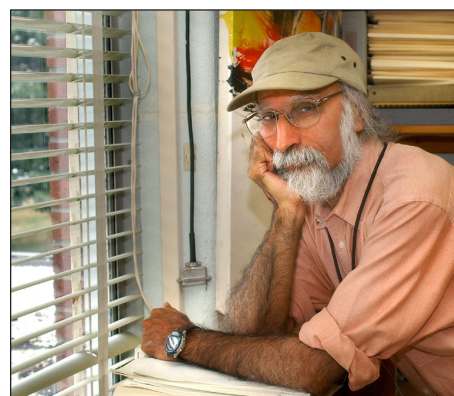
### Stephen G. Peggs



Michael Herbert 01101301

**Stephen G. Peggs** — For his important contributions to the study of nonlinear dynamical effects in accelerators and for his contributions to the successful design, construction, and operation of the Relativistic Heavy Ion Collider (RHIC). RHIC is the premiere facility in the world for nuclear physics research. Peggs, who is in the Collider-Accelerator Department, came to BNL in September 1992.

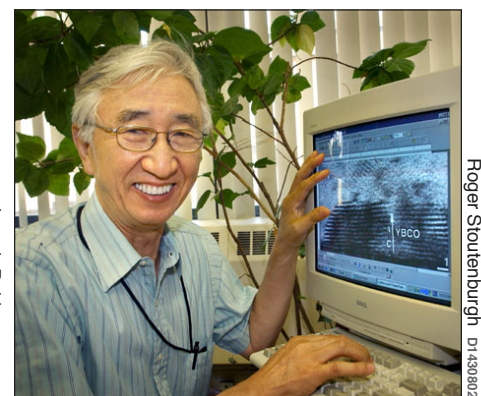
### Amarjit Soni



Joseph Rubino 00440902

**Amarjit Soni** — For contributions to studies of CP violation in *b* decays and the computation of weak matrix elements on the lattice. Both lines of research are likely to be important in understanding the breakdown of a fundamental symmetry of the physical universe, called CP (C for charge conjugation, P for parity). Soni, who joined BNL in October 1989, is in the Physics Department.

### Masaki Suenaga



Roger Stoulenburgh 01430902

**Masaki Suenaga** — For pioneering studies of the properties that control the critical current density of both low- and high-temperature superconductors. Superconductors, below a certain temperature, conduct electricity without resistance. Electrical current will flow forever in a closed loop of such a material. Suenaga, Materials Science Department, joined BNL in July 1969.

## 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. 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 —

#### 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. Mary Wood, Ext. 5923, or [wood2@bnl.gov](mailto:wood2@bnl.gov).

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

Noon-12:45 p.m., Rec. Bldg. Scott Bradley, Ext. 5745, [bradley@bnl.gov](mailto:bradley@bnl.gov).

#### Tuesdays: Aqua Aerobics

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

#### Tuesdays: BNL Music Club

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

#### 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 Monique de la Beij, 399-7656.

#### 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](http://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.

#### Wednesdays: On-Site Play Group

10 a.m.-noon. Rec. Bldg. A infant/toddler drop-in event. Parents meet while children play. Svetlana Agafonova, 205-5065.

#### Wednesdays: Farmer's Market

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

#### Wednesdays: Hispanic Heritage Club

11:30 a.m., Berkner Hall, Room D. All are welcome. Carmen Narvaez, Ext. 3254, or [www.bnl.gov/bera/activities/hispanic](http://www.bnl.gov/bera/activities/hispanic).

#### Wednesdays: Weight Watchers

Noon-1 p.m., Brookhaven Center South Room. Mary Wood, Ext. 5923, [wood2@bnl.gov](mailto:wood2@bnl.gov).

#### Wednesdays: Yoga Practice

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

#### Wednesdays: BNL Ballroom, Latin & Swing Dance Club Lessons

5-9 p.m. North Ballroom, Brookhaven Center. Marsha Belford, [belford@bnl.gov](mailto:belford@bnl.gov) or Ext. 5053, or [www.bnl.gov/bera/activities/dance](http://www.bnl.gov/bera/activities/dance).

#### Thursdays: Science Discussion Group

12:30-1:30 p.m., Berkner Hall, Room A or D. Patrice Pages, Ext. 3270, [pages@bnl.gov](mailto:pages@bnl.gov).

#### Fridays: BNL Social & Cultural Club

7-11:30 p.m., Brookhaven Ctr., social. Rudy Alforque, Ext. 4733, [rudy@bnl.gov](mailto:rudy@bnl.gov).

## September is Hispanic Heritage Month.

See 9/21 for an upcoming event.

### — THIS WEEKEND —

#### Fri. & Sat., 9/20 & 21

#### RHIC & AGS Annual Users' Meeting

"Talking Turkey at RHIC: Beyond First Collisions" For more information, see [www.bnl.gov/rhic\\_ags/users\\_meeting/](http://www.bnl.gov/rhic_ags/users_meeting/).

#### Friday, 9/20

#### Hospitality Committee Holds Newcomers' Potluck

5:30 p.m., Rec. Bldg. All visitors, guests, and their families are welcome. Bring a dish to share for six people. Monique de la Beij, 399-7656.

#### Saturday, 9/21

#### Atlantic City Bus Trip

Bus leaves the Brookhaven Center at 8 a.m. and returns at approximately 11:30 p.m. Tickets cost \$25. Andrea Dehler, Ext. 3347, or Chris Carter, Ext. 2873.

#### \*Spanish and Flamenco Music & Dance Concert

7 p.m., Berkner Hall. Buy tickets at \$10 per adult, \$5 per child under 12, at the BERA Sales Office. At the door, tickets cost \$12 per adult. For more information, call Ext. 3347.

#### Sunday, 9/22

#### Walk for Beauty

9:30 a.m., Stony Brook Village Post Office. All BNLers are welcome to participate in the 9th annual walk, which will benefit prostate cancer and breast cancer research. Kerry Mirabella, Ext. 2632, or [mirabella@bnl.gov](mailto:mirabella@bnl.gov).

## Tree Planting Follows Flag Ceremony To Mark 9/11/01 at Brookhaven Lab

To commemorate the first anniversary of the September 11, 2001, terror attacks, BNL planted a weeping cherry tree on the lawn in front of Berkner Hall on September 11, 2002. BNLers who attended the lunchtime event heard from Interim Director Peter Paul that, in addition to its role as a memorial to the past, the tree represents the



Roger Stoutenburgh D1590902

(Above) BNL Interim Director Peter Paul by the memorial tree.



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(Left) Former Lab Director Maurice Goldhaber and other BNLers help fill the hole around the tree.

energetic look forward that employees had immediately demonstrated by donating cash, blood, and other forms of support. After singing "God Bless America," attendees joined Paul in filling the hole around the tree. Earlier that morning, Interim Director Paul had spoken at a 10 a.m. ceremony at the Brookhaven Center flagpole, attended by employees in remembrance of the victims and rescue workers' heroism one year ago.

## Summer Tanager Nest Spotted at BNL A 'first' for New York State

Jim Osterlund of the Collider-Accelerator Department remembers the date well — June 22, 2002 — the date he spotted not one, but two, summer tanagers at BNL — an unusual sight in this area.

"I was in the woods doing the Moriches Bay Audubon Society's (MBAS) annual breeding-bird census with my wife, who is an MBAS member, when we saw a male summer tanager in a location where we had seen one on June 8th," Osterlund said. "Then, my wife heard the song of another summer tanager in the distance. It turned out to be another male. Eleven days later, on July 3, I saw a male summer tanager flitting around with a female in the area where we had found the second male," added Osterlund.

To share the news with a friend, Osterlund called Jim Clinton, a BNL retiree who has been birding for 30 years and is the field-trip leader for MBAS.

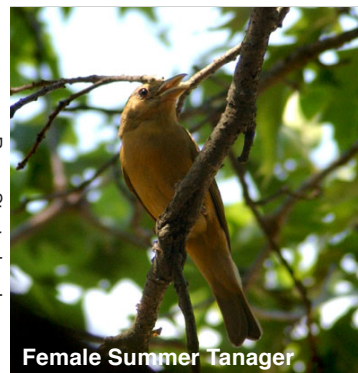
#### A New York State 'First'

Clinton knew that the New York State Avian Records Committee (NYSARC), which was established in 1977 by the Federation of New York State Bird Clubs to compile and maintain the official list of the birds of New York State, had no accepted documentation that summer tanagers (*Piranga rubra*) had ever nested in the state. With this fact in mind, Clinton and Osterlund started visiting the site every day to seek evidence of a nest.

Then, on July 8, Clinton found proof of the tanagers' mating. He spotted a summer tanager nest about 12 feet up on a branch of an oak tree on the



Male Summer Tanager



Female Summer Tanager



Nest

inches long, and the adult male has pinkish-red plumage, brightest on the breast. The adult female has an orange-yellow breast with an olive back and gray wings and tail.

The summer tanager typically breeds in the southeastern or southwestern parts of the U.S., and, in the east, nests have been spotted as far north as New Jersey. Vagrants have been seen in southern Canada. It is a migratory bird that winters from central Mexico through Central America and northern South America.

Blackberries, pokeweed, and mulberries, as well as insects such as caterpillars and mosquitoes, make up the summer tanager's diet, but this bird is unusual because it also eats bees and wasps. Sometimes it is attracted to fruit and hummingbird feeders in backyards.

#### 220 Bird Species on Site

Tim Green, Environmental Services Division, said that some 220 species of birds, 85 of which have nested, have been recognized on the BNL site. Among the uncommon birds to visit BNL have been a dove, a swallow-tailed kite, and a golden eagle. This summer, nesting ruby-throated hummingbirds were also observed, and an osprey's nest was spotted on the cell phone tower next to the Brookhaven Center.

Osterlund, who has been a birder since 1988, travels the site every day at lunchtime and during breaks in search of an unusual find. "While Jamaica Bay Wildlife Preserve is the best spot on Long Island for bird watching, BNL is the second-best place," he concluded.

— Diane Greenberg



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At the tree which housed the summer tanagers' nest are: (from left) Jim Clinton, Tim Green, Diane Greenberg, and Jim Osterlund.

## Walk to Aid Cancer Research, 9/22

This Sunday, September 22, bring your friends and family to walk with the BNL team at the 9th annual Walk for Beauty to help support breast and prostate cancer research. Meet at the Stony Brook Village Green for the 9:30 a.m. kickoff. If you have not signed up yet, go to <http://dev.bnl.gov/diversity/women> for information and a sign-up sheet. Or contact Kerry Mirabella, Ext. 2632 or [Mira.bella@bnl.gov](mailto:Mira.bella@bnl.gov).

## Join in a Bronx Zoo Trip, 10/5

The Hospitality Committee invites all BNLeers to join a bus trip to the Bronx Zoo on Saturday, October 5. The cost for the bus is \$10 for adults and \$8 for children ages 2-12. An additional entrance fee must be paid at the zoo. The bus will leave the Recreation Hall at 9 a.m. and leave the Zoo at 5 p.m. For more information and reservations, call Sarah Paul, 776-2349.

## Long-Term Care Planning Seminar, 9/24

American Express Financial Advisors, Inc., will discuss "What You Need to Know About Long-Term Care Planning," next Tuesday, September 24, at noon in Berkner Hall, Room B. Topics will include types of nursing home care, alternative options to a nursing home, Medicaid income limits, gifting and look-back periods, spouse's financial responsibility, options to protect your estate, gift assets to individuals/trust, and life estate planning. For more information, contact Joyce Wund, Ext. 7516 or [jwund@bnl.gov](mailto:jwund@bnl.gov).

## Join Aerobics, 9/24 Weight Watchers

The BERA Aerobic Dance & Stretch Club will begin a new session of classes on Tuesday, September 24, in the Recreation Hall in the apartment area. All are welcome; no prior experience is needed.

Aerobic dance will be held on Tuesdays and Thursdays at 5:15 p.m., at \$4 per class or \$35 for any ten classes, with one makeup class. For more information, call Pat Flood, Ext. 7886, or Susan Monteleone, Ext. 7235.

Weight Watchers At Work is a program that meets the needs of busy, working people. Many previous participants have found it easy to sign up and sign off unwanted pounds. Registration at BNL will be held at noon on Wednesday, September 25, at the Brookhaven Center South Room.

The fee is \$89 for ten or more weeks, depending on the number of participants. The first class will start on Wednesday, October 2. For more information, contact Mary Wood, Ext 5923 or [wood2@bnl.gov](mailto:wood2@bnl.gov).

## Grief Counseling

Employees who experience psychological distress caused by stress or other difficulties are invited by the clinical psychologists of the Employee Assistance Program to make a confidential appointment. Call Ext. 4567.

## Arrivals & Departures

### Arrivals

Rakhi Agarwal ..... Biology  
Jian Wang ..... Env. Sci.  
Tomasz Wlodek ..... Physics

### Departures

Gregory Herman ..... Rad. Ctrl.  
Michelle Herman ..... Staff Svcs.

Note: Kimberly Mayer, who joined the Biology Department last week, was inadvertently entered as Kimberly Meyer.

## Radio City Show

Buy tickets at the BERA Sales Office in Berkner Hall for the Holiday Extravaganza at the famous Radio City Music Hall in New York City, on Sunday, December 1. At \$99, tickets include orchestra seats for the noon show and bus transportation. There will be free time in the Rockefeller Center area to shop or snack. The bus will leave BNL at 9:30 a.m. and return at 5:30 p.m.

# Softball Champs 2000



In League E2, Team Sure Fire aimed high and beat the competition with team members: (from left) Frank Trapani, Jim Lacy (co-captain), and Anthony Mantone. Not present are: Dan Carneiro, Tom Carroll, Bob Danowski, Joe DeVoe (captain), Dave Dono, Dwayne Eleazer, Arty Harris, Gary Heyman, "Izzy" Izzo, Phil Marino, Boyze Singh, and John Willi.



The OER Wellheads went well ahead and won in League M1. They include: (back, from left) Brian McCaffrey, Keith Klaus, Chris Ogeka, Bill Dorsch, Captain Jason Remien, Scott Smith, Marty Meriwether, and Pete Genzer; (middle, from left) Bob Howe, Michelle Pizzulli, Marcia Allocco, Kelly Smith, and Carlee Ogeka; (front) Alain Domingo and Barbara Moebes. Not present are: Michael Cowell and Doreen Fitzsimmons.



The Sand Lot team dug deep and claimed victory in League M2. Team members are: (back, from left) John Addressi, Jack Barry, and Al DellaPenna; (middle, from left) Lou Adessi, Ed Sperry, JoAnn Reed (MVP), Nancy Concodoro, Tracy Blydenburgh, Debbie Bauer, Louie Nieves (MVP), and Claudia Jones; (front, from left) Captain Susan Cataldo and Kelly Smith. Not present are: Christine Brakel, John Burke, Sonny Dimaiuta, Mike Furey, Joe Gormley, and Jennifer O'Connor.



The Blue Jays, formed 40 years ago in 1962, were happier than larks in flying to their fourth straight League E-1 championship. They include: (back, from left) Bobby Medina, Paul Infranco, Chris Ingoglia, Larry Musso, Jay Caruso, Bob Hernandez, and Gerry Shepherd; (middle, from left) Deanna Reynolds, Jim Rowehl, Tirre Farmer, Eric Kramer, Pat Browne with daughter Casey, Allen Jones with daughter Jacklyn; (front, from left) Lenny Campione, Ed Gavin, and Michael Infranco. Not present are: John Dibiasi, Bill Fox, Keith Greiner, Dennis Hall, and George Oldham.

# Calendar

(continued)

## — WEEK OF 9/23 —

### Monday, 9/23

#### 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, 9/24

#### Retirement Planning Seminar

Noon, Berkner Hall. American Express Financial Advisors, Inc. will present "What You Need to Know about Long Term Care Planning." Check your mailbox for registration forms. Joyce Wund, Ext. 7516, [jwund@bnl.gov](mailto:jwund@bnl.gov).

### Wednesday, 9/25

#### ENCON Applied Polymer Systems Demo

9 a.m.-3 p.m., Berkner Hall. Representatives from ENCON Northeast will demonstrate advanced polymer repair/coating systems, fiberglass systems, and other project services for maintenance needs. For more information, contact ENCON at 842-6500.

### Thursday, 9/26

#### T-Mobile Demo

10 a.m.-2:30 p.m., Berkner Hall. A representative will present BNLeers with special rates on wireless phone and data services including free nights and weekends on select plans. Richard Goll, 516-343-5900.

#### BERA Softball League Party

6-10 p.m., East Wind Caterers, Wading River. Sue Cataldo, Ext. 4461, [cataldo@bnl.gov](mailto:cataldo@bnl.gov).

### Thurs. & Fri., 9/26-27

#### BERA Book Fair

10 a.m.-3 p.m., Berkner Hall. Credit cards and checks accepted. Andrea Dehler, Ext. 3347.

## — WEEK OF 9/30 —

### Thursday, 10/3

#### BERA Bridge Club

7 p.m., Brookhaven Ctr., South Rm. Morris Strongson, Ext. 4192, [mms@bnl.gov](mailto:mms@bnl.gov).

### Thursday - Friday, 10/3-4

#### Pine Barrens Research Forum

Berkner Hall. This year, the 7th annual forum will focus on problem species. Paper presentations are scheduled on Thursday from 8 a.m. to 5 p.m. and field trips to the Fire Island National Seashore and the Peconic River Pilot Projects are planned for Friday. For more information, contact Tim Green, Ext. 3091, [tgreen@bnl.gov](mailto:tgreen@bnl.gov).

### Saturday, 10/5

#### Bronx Zoo Bus Trip

\$10 per adult, \$8 for children ages 2-12. Additional entrance fee must be paid at the zoo. Bus leaves the Rec. Bldg. at 9 a.m. and departs the zoo at 5 p.m. For more information and reservations, contact Sarah Paul, 776-2349.

#### Defensive Driving

9 a.m. to 3:30 p.m., Berkner Hall, Room B. The course is open to BNL, BSA, and DOE employees, BNL facility-users and guests, and their families. To register, send a check by September 27 for \$26 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.

## — WEEK OF 10/14 —

### Wednesday, 10/16

#### Retirement Planning One-on-One

Vanguard Group is on site 9 a.m.-5 p.m. to meet one-on-one with Lab personnel on financial issues. To schedule your 30-minute session, call Vanguard, 1-800-662-0106, Ext. 69000.

#### 377th Brookhaven Lecture

4 p.m., Berkner Hall. Elio Vescovo, National Synchrotron Light Source Department, will give the next lecture on the topic of magnetism in ultra-thin films.

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.

## BERA Softball Final Standings

League M-2			
Team	W	L	
Diamond Dawgs	12	2	
Hounds & Foxes	11	3	
Guzzlers	8	6	
Sandlot	7	7	
Here 4 the Beer	2	12	
Jello Shots	2	12	

League M-1			
Team	W	L	
*Happy Hour	10	4	
OER	10	4	
Stingrays	5	9	
Gourmets	2	12	
*ahead by head-to-head competition			

League E-1			
Team	W	L	
BlueJays	14	0	
System	11	3	
Phaseout	10	4	
Survivors	8	5	
Gas House Gorillas	5	9	
Hammerheads	3	11	
Hytech	3	11	
Mesocyclones	2	12	

League E-2			
Team	W	L	
Sure Fire	11	4	
Bombers	10	5	
Chemically Imbalanced	10	5	
Barflys	6	6	
Ten Samuri	3	12	
Medical	2	13	

