

Roger Stoulenburgh CNY-188-01

## NYS Business Council Leaders Visit BNL

Top executives from the Business Council of New York State, Inc., visited BNL on April 11 to become more familiar with the Lab and its research agenda and capabilities, and to explore collaborations that would be fruitful for New York State industry.

The businessmen, Daniel Walsh (second from left), President and CEO, and Edward Reinfurt (fifth from left), Vice President, were greeted by (from left) Marge Lynch, Assistant Director for Community Involvement, Government, and Public Affairs; BNL Director John Marburger; Medical Department Chair Linda Chang; Environmental Sciences Chair Creighton Wirick; Margaret Bogosian, Manager of the Office of Intellectual Property & Industrial Partnerships; and Richard Osgood, Associate Director for Basic Energy Sciences.

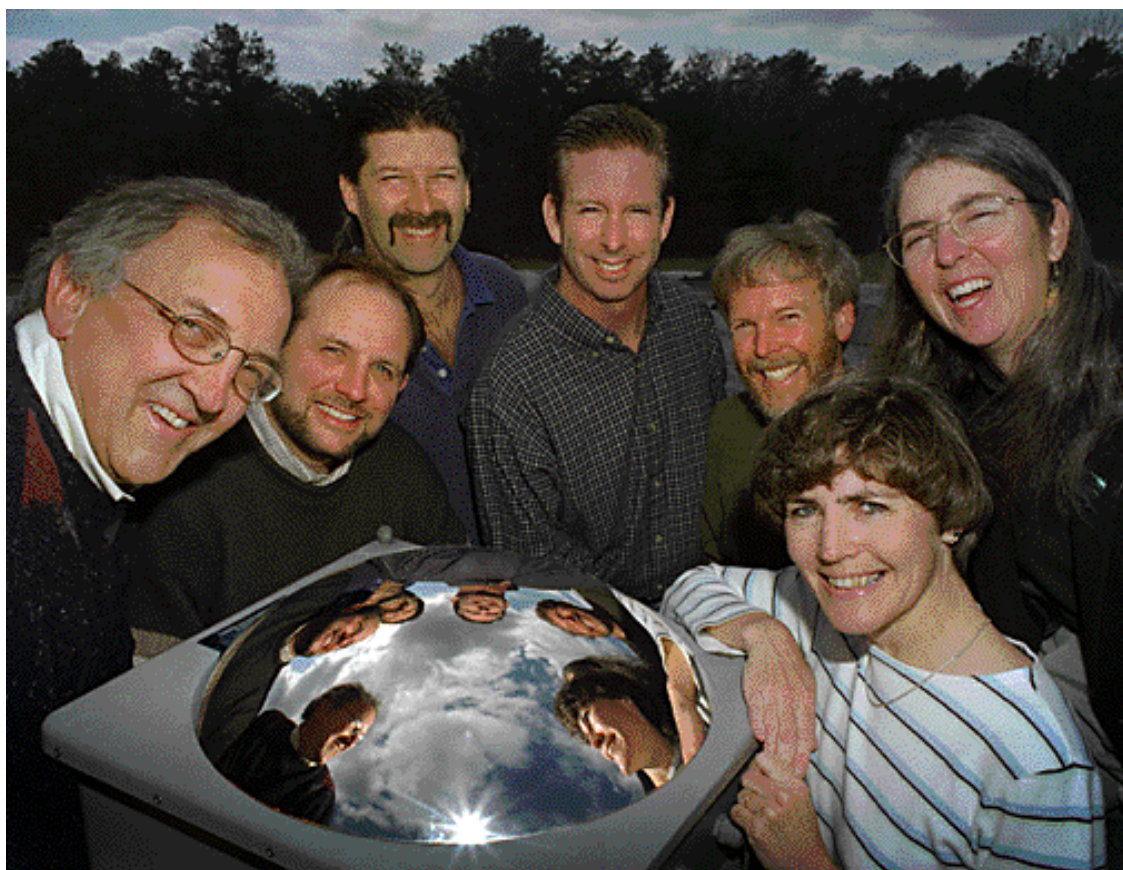
The Business Council leaders first toured the Laser Electron Facility, where chemist John Miller talked about promising new studies in support of

BNL's nanoscience initiatives. They then stopped by the Positron Emission Tomography (PET) facility to learn about substance abuse research from chemist David Schlyer. A visit to the National Synchrotron Light Source gave physicist Peter Siddons an opportunity to describe the Light Source's attraction for industrial users — 223 researchers representing 61 U.S. companies actively used the facility in fiscal year 2000. And physicists Derek Lowenstein and Gene Van Buren showed off the Relativistic Heavy Ion Collider and the STAR and PHENIX detectors, all built with the help of industrial expertise.

The Business Council is a statewide association of over 4,000 member businesses, working to create an economic renaissance for New York State and its people. The organization advocates public policies that will improve the business climate, expand the economy, and produce new jobs.

For more information, go to their Web site at: <http://www.bcnys.org/>.

## Studying Atmospheric Radiation Over the Oceans



Roger Stoulenburgh DOZ-000-1

Shown with a Total Sky Imager — a camera capable of photographing the entire sky using a curved mirror — are Shipboard Oceanographic and Atmospheric Radiation (SOAR) monitoring program researchers, (clockwise, from left) Michael Reynolds, Mark Miller, Scott Smith, Ray Edwards, Bill Behrens, Mary Jane Bartholomew, and Sharon Johnson, all from BNL's Environmental Sciences Department.

A team of scientists from BNL's Environmental Sciences Department forms BNL's Shipboard Oceanographic & Atmospheric Radiation (SOAR) measurement program. Their goal is to understand the transfer of energy at the ocean surfaces.

The oceans cover 71 percent of the surface of the Earth. Energy, in the form of sunlight and heat, is continuously absorbed and released by the ocean surfaces. The accounting of the amount of incoming and outgo-

ing energy is often termed the radiation budget.

SOAR is a subprogram of DOE's Atmospheric Radiation Measurement (ARM) program, which is a major effort to resolve scientific uncertainties regarding climate change. It aims to understand the radiation budget and, in particular, the effect of clouds in the overall energy balance of the earth.

The radiation budget at the ocean surface and the maritime cloud systems that lie over the

oceans are important components of the Earth's radiation budget. Unfortunately, they are notoriously difficult to study, because measurements must be made from rolling ship decks in a hostile marine environment.

To help study the radiation budget over the oceans, BNL's SOAR team operates a network of specially designed instruments on ships around the world. These instruments measure the energy balance at the ocean surface. "The marine en-

### Pegram Lectures, May 8 & 9

## Hubble Scientist Mario Livio 'The Beauty of the Cosmos'

Mario Livio, who heads the Hubble Space Telescope's science division at the Space Telescope Science Institute, will give two lectures on the theme "The Beauty of the Cosmos" at BNL on May 8 and 9, as part of the George B. Pegram Lectureship series.

The lecture on Tuesday, May 8, titled "The Accelerating Universe," is followed on Wednesday, May 9, by "Black Holes: Can These Shed Light on Anything?" Each 90-minute lecture starts at 4 p.m. and will be held at Berkner Hall. Livio will sign copies of his recent book, *The Accelerating Universe*, following each presentation.

In his first lecture, Livio will discuss the scientific importance of the surprising evidence presented by two groups of astronomers in 1998 that showed the universe is expanding at an ever-increasing rate. Also, he will present his view on how this accelerated expansion challenges the centuries-old belief that the fundamental theory of the universe must be beautiful. Livio will define what he believes constitutes a beautiful theory in physics.

Livio's May 9 lecture will focus on black holes, regions of space with a gravitational force that is so strong that nothing — not even light — can escape its pull. A black hole is formed when a massive star collapses.

Besides delving into the science of black holes, Livio will offer his answers to some intriguing questions: "Can black holes shed light on disorder in the universe? What happens to information destroyed in the depths of black holes? Can that information ever be retrieved?"

Mario Livio earned a B.Sc. in physics and mathematics from Hebrew University in Jerusalem in 1968, a M.Sc. in theoretical particle physics from the Weizmann Institute in 1972, and a Ph.D. in theoretical astrophysics from Tel-Aviv University in 1978. In 1981, he became a professor of physics at Technion-Israel Institute of Technology, and, in 1991, he joined the Space Telescope Science Institute in Baltimore, Maryland.

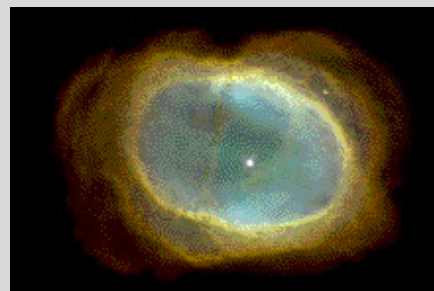
Livio's interests span a broad range of topics in astrophysics, from cosmology to the emergence of intelligent life. During the past two years, his research focused on supernova explosions and their use in cosmology to determine the rate of the universe's expansion. He is also a self-proclaimed "art fanatic." Recently, he combined his interest in science and art in a popular book, *The Accelerating Universe* (John Wiley & Sons, 2000).

The author of over 300 scientific papers, Livio has received numerous awards for research and excellence in teaching.

— Diane Greenberg



Mario Livio



Planetary nebula NGC3132, NASA-HST, 1998.

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## Coming Up

A meeting on new federal research misconduct policy will be held in Berkner Hall on Thursday, May 10, from 10 a. m. to 4 p.m. A link to the policy and other information is at <http://www.science.doe.gov/misconduct/index.htm>. See also next week's Bulletin.

vironment is severe, and requires a special breed of autonomous, robust instrumentation. Our job is to find ways to adapt land-based systems to those conditions," said SOAR team leader, Michael Reynolds.

### New Instrument

A breakthrough has come in the form of a Portable Radiation Package, which contains a new instrument that enables measurements of some key

(continued on page 3)



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 —

Tuesdays: Welcome Coffee

10-11:30 a.m. Rec. Bldg. New-comers meet friends. Mimi Luccio, 821-1435.  
— Hospitality event

Wednesdays: On-Site Play Group

9:30 a.m.-11:30 a.m. Rec. Bldg. Parents meet while children play. Free, drop in any time. Monique de la Bey, 399-7656. — Hospitality event.

Wednesdays: Yoga Practice Sessions

12:10-12:50 p.m., Rec. Bldg., free. Ila Campbell, Ext. 2206.

Wednesdays: Weight Watchers at Work

noon-1 p.m., Brookhaven Center South Room, Mary Wood, Ext. 5923.

Wednesdays: beg-adv. Dance Lessons

6-9 p.m., Brookhaven Ctr. North Ballroom, Marsha Bedford, Ext. 5053.

Tues. & Thurs: Aerobic Dance

5:15 p.m., Rec. Bldg. \$4 per class or \$35 for any ten classes. Pat Flood, Ext. 7886; or Susan Monteleone, Ext. 7235.

Mon., Tues., & Thurs: Kickboxing

noon-1 p.m., Mon. & Thurs. and 5:15-6:15 p.m., Tues. & Thurs. Mary Wood, Ext. 5923, or wood2@bnl.gov.

— THIS WEEK —

Friday, 4/27

Money Talks Seminar

noon, Berkner Hall "Retirement Savings During Volatile Markets."

Women Engineer's Lunch Networking Meeting

Noon, Berkner Hall, Room C. Meeting host, Susan Eng Wong; Speaker, Loralie Smart; Topic, WISE experience; Discussion: future agenda, Web site, WISE activity. Arlene Zhang, Ext. 5369, arling@bnl.gov, Lorraine Merton, Diversity Manager, merton@bnl.gov.

— NEXT WEEK —

\*May is Asian Pacific American Heritage Month.

For specific events, see page 4, posters on site, and <http://synchrotron.bnl.gov/asian>.

Wednesday, 5/2

\*Asian Pacific American Heritage Month - Video Show

Noon-1 p.m., Berkner Hall "Ancestors in the Americas, Part I" — Asian Cafeteria Menu "Asian Gourmet" by FLIK.

BNL Environmental Awards Celebrate Earth Day

A family party atmosphere enlivened the "Earth Day" environmental awards celebration held in Berkner Hall on Thursday, April 19.

Three BNL staff won BNL Environmental Awards; 11 elementary school students won bonds and thanks for their art work which will be used in BNL's next Site Environmental Report; the National Archives & Records Administration (NARA) had chosen BNL's Web site Earth Day poster design for their repository; three students won BSA Pine Barrens' research awards; and all winners received an unexpected bonus, a handcrafted bluebird house to set in their back yards.

Thomas Sheridan, Deputy Laboratory Director for Operations, welcomed those present and remarked that celebrating this 31st Earth Day was symbolic of BNL's commitment to environmental stewardship. The Lab's environmental motto, "Exploring Earth's Mysteries . . . Protecting its Future," reflects BNL's desire to balance world-class science with environmentally responsible operations, he said.

Sheridan then presented three 2001 Environmental Stewardship Awards, each winner receiving a framed citation, a gift certificate, a triathlon watch, and a bluebird box. The winners were:

Jack Laurie, Information Services Division, was recognized for outstanding efforts in pollution prevention and waste minimization, which have reduced the volume of hazardous waste generated by Photography & Graphic Arts and saved BNL an estimated \$50,000 annually since 1997.

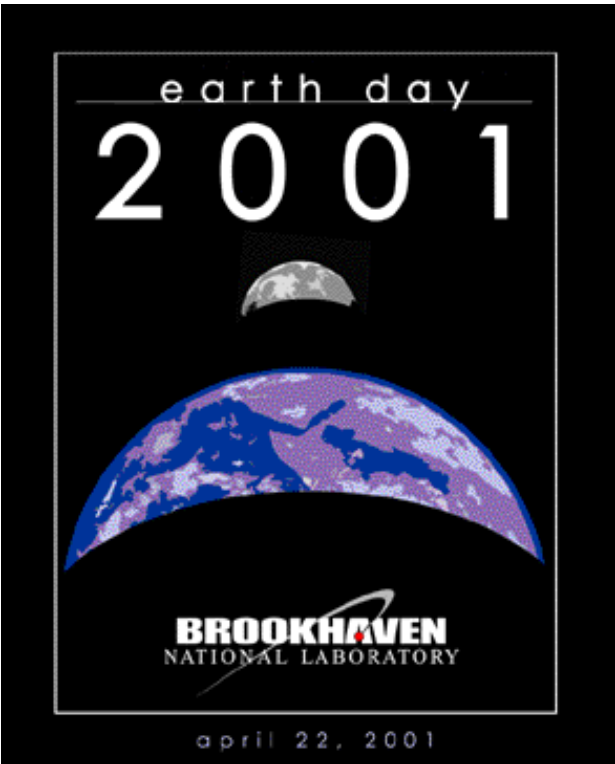
Greg Flett, Plant Engineering Division, has "impressive"

achievements in improving BNL's potable water system, sanitary system, and major petroleum facility. He led a team that has, for example, removed more than 50 underground tanks and remediated several contaminated areas.

Ann Emrick, as the Environmental Management System (EMS) Representative for the Life Sciences Directorate, was recognized for her constructive approach to EMS. The LS Directorate registered to ISO 14001, an international standard of sound environmental practice, ahead of schedule, thanks to her efforts.

Sheridan next highlighted environmentally related artwork, starting with the 2001 Earth Day poster designed for BNL's Web site by Gary Schroeder, who recently left the Environmen-

tal Services Division (ESD) to join the Community Involvement, Government, & Public Affairs (CIGPA) Directorate as BNL's Web Content Manager. As Sheridan explained, BNL's Earth Day events coordinator, Peter Pohlott of ESD, had received a letter from the NARA requesting copies of the poster "as documentation of the programs, activities and interest of the Brookhaven [National] Laboratory," to include in "the records of the Department of Energy in our custody." The letter states "NARA is the repository for the permanently valuable historic records of the federal government, and posters are among the many documents we preserve for posterity." Schroeder was presented with a copy of the letter — and a bluebird box.



Web poster designed by Gary Schroeder, CIGPA.

Next were the Suffolk County elementary schools' third-to-fifth graders who had entered artwork in BNL's "Your Environment" art contest. The winning art work, as last year, will be used in the upcoming BNL Site Environmental Report. The more than 65 entries from a dozen schools were displayed in Berkner Hall lobby, and the eleven winning students, all present with family and some teachers, received a savings bond, and "of course," said Sheridan, a bluebird box.

Gregory Fess, Brookhaven Science Associates, who heads BNL's Legal Office, next presented awards from Battelle to students for environmental research studies. Meryl del Rosario of Bellport High School, for her project entitled "The Effects of Light Competition on the Growth Forms of *Pinus rigida*," and Rahal Kahanda of Ward Melville High School, East Setauket, for his research project, "The Use of Aerial Photography for Determining Past Successional Vegetational Sequences in the Gamma Forest at BNL," each received a \$250 High School Research Award. Wei Fang, a Stony Brook University Ph.D. candidate, won the Graduate Research Award of \$750 for her demographic study of pitch pine seedling recruitment after the devastating 1995 fire in the Long Island Pine Barrens.

These three winners also each received a sturdy, attractive bluebird box. Sheridan explained that the boxes were made by Tim Green, ESD, who had first started making these boxes for BNL's bluebird nesting enhancement project, which began last year, is ongoing on site, and now may also go on off site in the prize winners' back yards.



On Sunday, April 22, the Lab celebrated Earth Day with about 440 BNLers and friends who came on site to enjoy the environmental displays and science demonstrations given by BNL staff, and to join in the great 4-mile race and other events organized by Peter Pohlott, Environmental Services Division and president of the BNL Running Club. The race ended with 211 finishers. The overall winner was Don DiDonato (right), 43 years old, from Hicksville, with a time of 21:41.20. The first woman across the tape was Regina Ronan from Northport, with a time of 23:00.90. Children who ran in the half-mile Kids' Race (below) each received a tree to take home to plant as well as medals supplied by Keyspan.



Arrivals & Departures

Arrivals

William S. Bradley ..... Info. Tech.  
Cathy L. Harland ..... En. Sci. & Tech.  
Yukiko Hayashi ..... Chemistry  
Mikhail Khoudiakov ..... Chemistry  
John W. King ..... Rad. Control  
Nicholas P. Luciano ..... C-A  
Christoph H. Montag ..... C-A  
Cantong Yu ..... Physics

Departures

Daniel J. Bowman ..... Rad. Control  
Dan Melamed ..... En. Sci. & Tech.

One-on-One Retirement Planning

The Vanguard Group invites you to spend 30 minutes with a licensed Vanguard representative to talk about the financial issues that matter to you most. Meet one-on-one with a representative between 9 a.m. and 5 p.m. on Thursday, May 3, at the Lab.

Here is what you can expect to learn:

- Investing for long-term goals like retirement
- Selecting funds for your savings
- making the most of the services and investment tools available to you.

Schedule your 30-minute session by calling Vanguard, 1-800-662-0106, Ext. 69000. (Note, this Ext. was inadvertently given as Ext. 6900 in last week's Bulletin.)



Skin Cancer Screen

A board-certified dermatologist will screen employees for skin cancer on Thursday, May 10, from 9 a.m. to noon in the Occupational Medicine Clinic.

To obtain one of the 40 available appointments, send a note with your name, building number and extension to Health Promotion Specialist Mary Wood, Bldg. 490, or e-mail wood2@bnl.gov. For more information, call Wood, Ext 5923.

BERA Golf Tournament

On Monday, May 21, the BERA Golf Association will hold the first tournament in 2001 at the Heatherwood Golf Course. It will be a two-person scramble event. The cost per person is \$36.25, which includes greens fees, \$5 toward prizes, and choice of light breakfast or lunch. Carts are optional. All employees, retirees, facility users, and their guests are welcome. To sign up, contact Joe Carbonaro, Ext. 5139 or carbonar@bnl.gov.

Dress For Success Clothing Drive

This year's Dress For Success clothing drive, sponsored by BNL's Women's Program Advisory Committee and coordinated with the Town of Brookhaven, will be held from Tuesday to Thursday, May 8-10.

As in the past, this is a collection of business attire for women re-entering the workforce. Clothing collected must be in excellent condition, dry cleaned, and on hangers. For more information, contact Nancy Concadoro, the BNL chairperson for this effort, Ext. 2877.

Atmospheric Radiation Over the Ocean

elements of the energy balance over the oceans. This new instrument — called a Fast Rotating Shadow-Band Radiometer — can accurately measure the impacts of atmospheric aerosols and clouds on the radiation budget at the ocean surface.

Since its initial deployment two years ago, this new instrument has increased the worldwide data base of some key measurements by one-thousand fold. One of its most important functions is its capability to measure the impacts of aerosols, which are small particles, such as soot, dust, ash, and sand, that are transported from land and deposited over the oceans.

"Aerosols can modify maritime cloud systems and thereby have a pronounced effect on the global radiation balance," said BNL's Mark Miller, the co-principal investigator in the SOAR project. "Aerosols also produce a hazy effect over the oceans that makes it difficult for satellites to discern surface features from space, so further studies are needed to learn how to adjust satellite data for this effect."

Warm Pool

A major effort for ARM and SOAR is to understand the radiation budget of the "warm pool" in the tropical western Pacific Ocean. The "warm pool" has an area that is approximately double that of the continental U.S. and surface water temperatures greater

BERA | Six Flags Great Adventure Discounts | Hurricane Harbor Water Park

Discounted tickets for Six Flags Great Adventure and Hurricane Harbor Water Park, one of the world's largest water parks, are now on sale at the BERA Sales Office.

Six Flags Great Adventure's newest attraction is Nitro, "the largest roller coaster on the planet." Six Flags Wild Safari Animal Park, with 1,200-plus animals, is the largest drive-through safari outside Africa. Early-bird tickets at \$26 to use by June 29 include park and safari, but not Hurricane Harbor. After June 29, park/safari tickets will cost \$35, which is still \$10 less than the normal price. BERA sells children's tickets at \$25 (child must be under 48," strictly enforced). Children under 3 are free. Hurricane Harbor tickets are \$24 (a \$6 savings). To buy tickets, visit the BERA Sales Office Monday-Friday, 9 a.m.-3 p.m., or call Andrea Dehler, Ext. 3347.

Service Awards

The following employees celebrated BNL service anniversaries during March 2001:

40 YEARS

Helen L. Masem  
Plant Engineering

30 YEARS

John M. Nicolellis  
Collider-Accelerator

Joyce L. Tichler  
Environmental Sciences

25 YEARS

Francine M. Donnelly  
Waste Management

Cleveland J. Dodge  
Environmental Sciences

Frank R. Miller  
Plant Engineering

Michel J. Perrier  
Procurement & Property Management

Joseph Mead  
Plant Engineering

Edward Kaplan  
Nonproliferation & National Security

James R. Lemley  
Nonproliferation & National Security

David J. Millener  
Physics

Pauline Dixon  
Energy Sciences & Technology

20 YEARS

Linda J. Hanlon  
Energy Sciences & Technology

Sharol Busby  
Safeguards & Security

20 YEARS

Kathleen M. Walker  
Safeguards & Security

Ralph E. Vega  
Safeguards & Security

Diane E. Cabelli  
Chemistry

James M. Johnson  
Safeguards & Security

10 YEARS

Michiko Miura  
Intellectual Property & Industrial Partnerships

Giuseppe Mondì  
Central Shops

Joseph A. Nubile  
Plant Engineering

Ulysses Tapley  
Plant Engineering

Michael J. Hamilton  
Collider-Accelerator

Terrence L. Buck  
Human Resources

Charles J. Buthorn  
Physics

James H. Lacy  
Plant Engineering

Wuzheng Meng  
Collider-Accelerator

Hyon-Joo W. Kehayias  
Physics

Donald H. MacKay  
Safeguards & Security

(cont'd.)



The Ka'imimoana, operated by the National Oceanic and Atmospheric Administration, is equipped by BNL with atmospheric monitoring instruments.

than 82°F. The warm pool is often called the "fire box" that drives global atmospheric circulations.

"Fluctuations in the energy budget at the ocean surface of as little as 0.5 percent are significant in understanding changes in the warm pool and any processes that depend on it, including El Niño, Pacific Oscillations, and long-term climate changes," said Reynolds.

Total Sky Imager

Another instrument, the Total Sky Imager (TSI), initially developed for stationary land-based applications by Penn State University and PNNL, has been successfully adapted by BNL to function on the deck of a ship.

The TSI consists of a Web-ready camera mounted above a spherical mirror. The camera photographs the surface of the mirror, which contains a reflected image of the sky and sends the image to a computer once per minute. Software is used to digitize the image and compute key cloud properties, such as fractional coverage. "To do this," said

Reynolds, "we designed a computer-controlled motor that uses time of day, geographical position, and ship heading to position the mirror's dome."

Aside from the ARM program, the SOAR program is funded by the NASA Sensor Intercomparison and Merger for Biological Interdisciplinary Ocean Studies (SIMBIOS) program, the Japan Marine Science and Technology Center (JAMSTEC), and the University of Miami.

Currently, the BNL team has permanent SOAR systems deployed on three research vessels: the Ronald Brown and the Ka'imimoana, both operated by the National Oceanic and Atmospheric Administration (NOAA), and the Mirai, operated by JAMSTEC.

Through collaborations with the University of Miami, SOAR systems are also operated on two U.S. Coast Guard icebreakers, the Polar Sea, and the Polar Star. Future plans for SOAR are installations on a British icebreaker, the James Clark Ross, and a system to be installed on the 1,200-foot-long luxury liner, Explorer of the Seas, which will make weekly excursions from Miami through the West Indies.

"We've had no shortage of volunteers to accompany the instrument package on the Explorer of the Seas," said Reynolds.

Additional information on SOAR is at www.oasd.bnl.gov/GIM/soar/index.html.

Correction

The Bulletin greatly regrets that one of the photos that appeared on page 2 last week, showing Brant Johnson, Physics Department, Congressman Rodney Frelinghuysen, and Laboratory Director John Marburger on a visit to RHIC, was a composite of two photos taken in different locations. Unfortunately, the background of the photo was identified as the PHENIX detector when it was STAR.

Such composite photos violate the Bulletin's editorial policy. Our policy is that Bulletin photos may be cropped, but not changed in content, excepting certain "art" photos, which are labeled as an artistic rendering or composite.

Retirees' Health Insurance Help Available

The Benefits Office of the Human Resources Division is pleased to announce additional assistance for BNL retirees who may need help in processing their medical insurance claims. BNL retiree Sonja Santos will be available on Wednesdays, beginning May 2, from 9 a.m. until noon, and 1 to 2 p.m., in Human Resources, Bldg. 185. Appointments are not necessary, but are suggested. For more information, contact Nancy Concadoro, Ext. 2877 (344-2877).

Nutrition Workshops

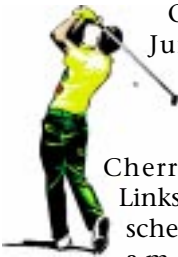
Some places remain at the four sessions of two nutrition workshops, one for cholesterol, the other for hypertension management, which will be given on May 3 and 31, June 28, and July 12. Register with Mary Wood, Ext. 5923, wood2@bnl.gov.

Club Offers Classes In Motorcycle Safety

BNL's Cycletron M.C. Club will host Motorcycle Safety Foundation classes on site during weekends this spring and summer. The course will be given by certified instructors and will include a lecture and hands-on riding instruction over an on-site course.

Classes are free to Lab employees and available to family and non-employees for a fee. Benefits include a road-test waiver, insurance and point reduction. BNLers are asked not to leave their vehicles in the lot between the swimming pool and tennis courts over the weekends. For more information, contact Frank Dusek, Ext. 2022, frankd@bnl.gov, or visit the club Web site, www.mcycl.bnl.gov.

BERA Golf Outing, 6/11 BNL vs. Suffolk County



On Monday, June 11, BERA will hold its annual golf outing at the Cherry Creek Golf Links. Tee-off time is scheduled for 7:30 a.m. and the format is two man best ball. \$75 per person includes 18 holes of golf with a cart, prizes, 19th hole refreshments, and lunch. All BNLers and guests are welcome. To register, contact Gordon Rawn, Ext. 7095, or rawn@bnl.gov.

Calendar

(continued)

Friday, 5/4

\*Asian Pacific American Heritage Month - Stage Show

Noon-1 p.m., Berkner Hall  
Chinese Harp, Philippine Folk Dance, and Korean Drums — Special Asian Cafeteria Menu "Asian Gourmet" by FLIK.

— WEEK OF 5/7 —

Tues. & Wed., 5/8 & 5/9

\*Two Pegram Lectures: 'The Beauty of the Cosmos'

Both at 4 p.m., Berkner Hall  
Mario Livio of the Space Telescope Science Institute will talk on "The Accelerating Universe" on 5/8, and on "Black Holes—Can They Shed Light on Anything," on 5/9.

Tues. - Thurs. 5/8 - 5/10

\*Clothing Drive

Dress for Success Clothing Drive will be collecting for women re-entering the workforce. For information, call Nancy Concadoro, Ext. 2877.

Thursday, 5/10

\*Skin Cancer Screening

9 a.m.-noon, Occupational Medicine Clinic. Board-certified dermatologist will screen employees for skin cancer. For appointments, contact Mary Wood, Ext 5923 or wood2@bnl.gov.

BERA Bridge Club

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

— WEEK OF 5/14 —

Wednesday, 5/16

Brookhaven Lecture

4 p.m., Berkner Hall.  
Laura Henderson Lewis will present "Advanced Composite Magnets."

Thursday, 5/17

Asian Pacific Heritage Talk

4 p.m., Berkner Hall. Nobel Laureate C.N. Yang will talk on the Museum Collection of Chinese Arts in North America.

— WEEK OF 5/21 —

Monday, 5/21

\*BERA Golf Tournament

Heatherwood Golf Course  
\$35 per person — two-person scramble event. Joe Carbonaro, Ext. 5139 or carbonar@bnl.gov.

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.

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.



## May is Asian Pacific American Heritage Month



The Diversity Office, in cooperation with the Asian American Center Bridge from Stony Brook University, encourages everyone to explore the beauty and splendor of Asia and the Pacific Islands through a poster display at Berkner Hall from Wednesday, May 2, through Thursday, May 31. For additional events commemorating Asian Pacific American heritage, see the posters around site and <http://synchrotron.bnl.gov/asian>.

Some planned events are:

**Wednesday, May 2, noon-1 p.m.**  
Video Show, Berkner Hall, "Ancestors in the Americas, Part 1."  
**Friday, May 4, noon-1 p.m.**  
Berkner Hall: Chinese Harp, Philippine Folk Dance, Korean Drums.  
**Tuesday, May 8, noon to 1 p.m.**  
Brookhaven Center North Room, Falun Gong, Chinese Art of cultivating universal life energy.  
**Friday, May 11, noon-1 p.m.**  
Video Show, Berkner Hall, "Ancestors in the Americas, Part 2."  
**Friday, May 11, 7 p.m.-midnight**  
Brookhaven Center North Ballroom, Dance Social, dance presentation; \$2.  
**Monday, May 14, 11 a.m.-2 p.m.**  
Asian arts, crafts, costumes, more.  
**Thursday, May 17, 4 p.m.**  
Berkner Hall, Nobel Laureate C.N. Yang, Stony Brook University's Albert Einstein Professor Emeritus, will talk on the "Museum Collection of Chinese Arts in North America."

EDITORIAL POSITION, *PHYSICAL REVIEW B* - AN ALTERNATIVE SCIENCE CAREER: *Physical Review B* is the journal of the American Physical Society dedicated to condensed matter and materials physics. We seek a dynamic and personable addition to our editorial staff. A qualified candidate possesses a Ph.D. in a physical science (preferably condensed matter physics), an excellent command of written and spoken English, and familiarity with the research publication process. Postdoctoral experience is desirable. We train all new editors to develop the necessary skills. No prior editorial experience is required for this entry-level position. We offer career stability, a competitive salary, and an outstanding benefits package to a qualified individual ready to start a nontraditional career in physics. To learn more about our organization, visit [www.aps.org](http://www.aps.org). Send your resumé plus cover letter containing salary requirements and timetable of availability to: Joseph Ignacio, Director of Human Resources American Physical Society, 1 Research Road, Box 9000, Ridge, NY 11961 (email: [edresumes@aps.org](mailto:edresumes@aps.org), fax: 631-591-4155).

### 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/JOBS/jobs.html](http://www.bnl.gov/JOBS/jobs.html).

**OPEN RECRUITMENT** - Opportunities for Laboratory employees and outside candidates.

**MK9145. POSTDOCTORAL RESEARCH ASSOCIATE** - Requires a Ph.D. in physics, medical physics, or related engineering or biophysics field, and experience in medical imaging, computer technology, and image processing. Experience with high-resolution magnetic resonance imaging and spectroscopy, neuroinformatics, and general imaging processing desirable. Research program will involve implementation of MR instrumentation improvements within the Laboratory's NIDA/DOE Regional Neuroimaging Center. Will be responsible for performing periodic evaluations of existing instruments, developing and carrying out experiments to improve the quality of current measures, and establishing research collaborations with other MR Groups. Under the direction of H. Benveniste/L.Chang, Medical Department.

**DD8506. OFFICE SERVICES ASSISTANT (Night Clerk - Part-time) (CVV-2)** - Requires excellent communication and customer service skills, and knowledge of Microsoft Office products. Will provide primary support to the Housing Office and act as backup to Transportation and Division Offices, as required, during the 4 p.m. to midnight shift. Duties will include reservations, check-in/check-out of customers, data management, and report generation. Will act as liaison with all residents and assist in the scheduling of housekeeping and maintenance services. Staff Services Division.

### NY Yankees Trip

Join BERA on Friday, June 1, for a bus trip to watch the New York Yankees take on the Cleveland Indians.

Tickets cost \$55 and include round-trip bus transportation and main level box tickets. The bus will leave from the Brookhaven Center at 4:15 p.m. and will return at approximately 11:30 p.m. Make paid reservations at the BERA Sales Office, weekdays, 9 a.m.-3 p.m.



#### Tickets Available

Tickets are still available for the Long Island Ducks 2001 baseball season. The seats are located in the second level, row J, seats 7-10. Non-refundable tickets may be bought at \$10 each, in pairs only, at the BERA Sales Office, weekdays, 9 a.m.-3 p.m.

## Notice Controlled Area Postings During RHIC Operations

The Collider-Accelerator Department soon will be restarting the Relativistic Heavy Ion Collider (RHIC), which is expected to operate through January 2002. During this operating period, the entire RHIC site, including the inner road, will be posted as a Controlled Area with the exception of Building 1005, the adjacent parking lot, and the approach road to Building 1005. The postings will be in place on April 30. In addition, because the Collider will be operating up to full intensity this year, the northern part of Thompson Road will be posted as a Controlled Area and closed to routine traffic.

The following requirements must be satisfied before entering the posted Controlled Areas. Failure to comply with these requirements could lead to a Reportable Occurrence and a Price Anderson Amendment Act (PAAA) violation:

1. **Unescorted Access** requires up-to-date General Employee Radiation Training (GERT) and facility specific training. **Experimenters** — contact the RHIC & AGS Users' Center, Ext. 5975, for assistance. **BNL Employees** — contact Ann-Marie Luhrs, Ext. 7007, for assistance.
2. **Escorted Access** may be granted by contacting Ann-Marie Luhrs, Ext. 7007. Escorts must complete a Training Waiver Form and the escorted entry must be approved by the Collider-Accelerator Department. Call at least one day prior.

All personnel are expected to adhere to the posted requirement.