

Lab Director John Marburger Gives Message of Invocation

At a Lab-wide gathering in Berkner Hall just before noon on September 14, Laboratory Director John Marburger gave a message of invocation for the National Day of Prayer and Remembrance called for by President George W. Bush in the wake of the September 11 terrorist attacks on the World Trade Center and the Pentagon:

Three days ago our nation was stunned by fanatical attacks on important centers of trade and government operations. Thousands of innocent people from every walk of life were consumed in horrible conflagrations.

The attacks will have many consequences, and raise many issues that will require each of us to change our attitudes toward modern society and our roles within it. The course of our lives will change, the way we do our business, and the direction of our work.

Many urgent tasks need to be accomplished, from tracking down and punishing the perpetrators, to creating conditions that prevent such a small group of people from ever again gaining access to such power over civilization. Our Laboratory can help with these tasks, and I have no doubt our talents will be enlisted in support.

These thoughts about the future — about the capacity of fellow humans for evil, about punishment and retribution, about stratagems for recovering our equilibrium, about repairing our defensive systems — all these thoughts need to be thought and acted upon.

But not today.

We are here today to acknowledge those things of first importance for any society that values human life: to express our grief for those who perished during those evil hours, to express our love for those they left behind, to express our admiration for those who struggled with the enemy, to express our pride in those who rushed to aid the suffering, and to express our commitment to the value of humanity and our determination not to be deterred from human values.

Following Marburger's remarks, the Berkner Hall audience (below) viewed the prayer service attended by the President at the National Cathedral in Washington, D.C., which was brought live to the BNL large screen by satellite. A videotape of the event may be seen at www.bnl.gov/video (see page 3).



Joseph Rubino CNE-148-01



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At the Brookhaven Center, the American flag is seen at half mast, on September 14, the National Day of Prayer and Remembrance.

BNL Powers Manhattan Rescue Effort With 500 kW Generator

BNL's largest portable generator — a 500-kilowatt (kW) unit capable of supplying power to over 150 homes — is one of the largest portable generators powering the search and rescue effort at the site of the leveled World Trade Center.

Not only did the Plant Engineering Division (PE) safely deliver the diesel-powered, self-contained Caterpillar unit, but it also did so within nine hours of receiving the 2:30 p.m. request from the Emergency Operations Facility of the Suffolk County Department of Fire, Rescue & Emergency Services (FRES) on Wednesday, September 12.

In good times, the generator, which weighs more than 10 tons, is used at the Lab to provide temporary power to facilities during planned, as well as unexpected, power outages. Under the circumstances following last Tuesday's terrorist attack, the generator is near "ground zero" to power a command post and emergency lighting, or handle other electrical demands at the scene.

BNL made the generator available to FRES as a result of its mutual-aid agreement with

Suffolk County. Preparations to deliver the generator began as soon as Fire/Rescue Chief

Michael Carroll received the request from FRES.

"Once the request was re-

layed to Plant Engineering, I asked Chris Johnson [Deputy Manager of PE's Operations & Maintenance Group] to assemble a team to prep the generator," explains PE Manager Ed Murphy. "This team fueled the unit, tested and replaced several batteries, and affixed BNL identification to the generator."

By 7 p.m., the generator was loaded into a 20-foot sea box container and was placed onto a flat-bed truck by a team of BNL riggers. The essential auxiliary equipment — large spools of heavy cable, two transformers, a distribution panel, and a complement of lights, fittings, and tools — was loaded onto a pick-up truck.

The trip to Manhattan was made by: Richard Jones, General Supervisor of PE's Site Division; Tower Linepersons James Boomer and Martin Kelly; Heavy Equipment Mechanic Operator Kevin Barnes, and Auto Truck Mechanic Al Mack.

Said Barnes, who drove the (continued on page 3)



Joseph Rubino CNE-148-01

Gathered in front of three small generators of 150 and 100 kW are members of the Plant Engineering, Emergency Services, Procurement & Property Management, and Staff Services Divisions who helped get BNL's 500 kW generator into Manhattan in record time: (back, from left) Joe Levesque, Steve Waski, Ralph Giordano, Roy Johnson, Jeff Tabacco, Eugene Kaczynski, Joe Dennington, Charles Edwards; (middle row, from left) Gregg Tomasello, Albert Mack, Roland Baillargeon, John Sterzenbach, Ken Caccavalla, Donna King, Ken Wenger, Jim Boomer, Marty Kelly, Dennis Joyce, Chris Johnson, Tom Roza; (front, from left) Kevin Barnes, Antonio McGill. Not in picture: Bill Chaloupka, John Dowd, and Ed Murphy.

Calendar of Laboratory Events

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

— EACH WEEK —

Mondays: Arts & Crafts

1:30-2:30 p.m. Rec. Bldg. \$5 per month covers materials. "Make Your Own Teddy Bear I" begins on September 10 and runs through September 24. Marcia Leite, Ext. 1040, mhsleite@hotmail.com.

Tuesdays: Welcome Coffee

10-11:30 a.m. Rec. Bldg. Newcomers meet friends. Mimi Luccio, 821-1435.

Tuesdays: Toastmasters

Meetings are held the 1st and 3rd Tuesday of each month at 5:30 p.m. and on the 4th Tuesday at 12:05 p.m. in Bldg. 463. Guests and visitors are always welcome. www.bnl.gov/bera/activities/toastmstrs/default.htm.

Wednesdays: BNL Ballroom, Latin & Swing Dance Club: beginner to advanced lessons

Register now for series 1 of the 10th anniversary 2001-02 season, which starts on Wednesday, October 3. North Ballroom, Brookhaven Center. Marsha Belford, belford@bnl.gov or Ext. 5053; Ron Ondrovic, ondrovic@bnl.gov or Ext. 4553; Sue Perino, perino@bnl.gov or Ext. 2483.

Wednesdays: Cooking Exchange

1:30-2:30 p.m. Rec. Bldg. \$1 per evening covers the cost of ingredients. Marcia Leite, Ext. 1040, mhsleite@hotmail.com.

Wednesdays: Weight Watchers

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

Wednesdays: Yoga Practice Sessions

12-1 p.m., Recreation Bldg. Free. Ila Campbell, Ext. 2206.

Thursdays: Falun Dafa Exercise Class

Free, 12-1 p.m., Recreation Center, Master Room. Falun Dafa is the practice of refining the body and mind through special exercises and meditation. www.falundafa.org.

Mon., & Thurs.: Cardio Kickboxing

\$5 per class. Mon. & Thurs. from noon-1 p.m. Thursday evenings from 5:15 to 6:15 p.m. Tuesday classes are held in the Gym. Thursday classes are held in the Brookhaven Ctr. Registration is required. Contact Mary Wood, Ext. 5923, or wood2@bnl.gov.

September is Hispanic Heritage Month. See 10/8 and other upcoming events to be announced.

— NEXT WEEK —

Monday, 9/24

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.

RAP Responds



Above is a view of Building No. 7 of the World Trade Center complex.

Shortly after the World Trade Center disaster unfolded on September 11, the Radiological Assistance Program (RAP) team at Brookhaven was put on alert. The next day, New York City officials called upon BNL's RAP team to assist in determining if there were any radiography sources stored or used in either of the twin towers. Radiography is commonly used to check for defects in steel and concrete, much the way a dentist uses x-rays to examine teeth.

Working twelve-hour shifts, the first RAP team left for the city Wednesday night, and a replacement team went Thursday morning. Shifts continued over the weekend at the city's request.

From the Radiological Control Division, the following participated in the RAP response: Paul Bergh, Deana Buckallew, Joseph Cracco, Andrea Epple, Nathaniel Foster, John Hale, Gregory Herman, Henry Kahnhauser, Andrew Levine, Stephen Musolino, Dennis Ryan, Charles Schaefer, James Stillwell, Patrick Sullivan, Joseph Vignola, James Williams, and Frank Zafonte. Additionally, Bob Miltenberger and Beth Lettieri handled RAP-team and resource management. Responding from DOE's Brookhaven Area Office were: Steve Centore, Paul Jones, Ronald Reif, Peter Kelley, Mark Parsons, and Lloyd Nelson.

RAP is a DOE national program to assist federal, state, and local governments in handling incidents involving radioactive materials. Every RAP response is aimed at protecting people and property.

BNLers' Heroic Responses

In addition to the Laboratory's responses to the need for help following the World Trade Center disaster, BNLers and their families have given extra aid either personally or as part of a local group. Their courage, fortitude, and, in some cases, tragic sacrifice, are an inspiration.

September 11th Relief Fund BSA Matches Contributions

BSA will match employee contributions up to \$50,000 to the September 11th Fund set up to help victims of that day's terrorist attacks in New York City and elsewhere.

Administered by the New York Community Trust and the United Way, the fund will provide immediate support to nonprofit assistance-providers such as the American Red Cross and other health and human services agencies. Donors may specify whether their gift is to be used for relief in New York or Washington.

To contribute, make checks payable to BSA, and send them to Susan Dyroff, Community, Education, Government & Public Affairs, Bldg. 134. For more information, go to <http://bcnys.org/whatsnew/2001/0912fund.htm>.

Save the Date: October 8 'Take Our Sons to Work' Day



Last November, a group of BNLers' sons examined a robot that Central Shops Division had helped students from William Floyd High School to construct in BNL's Heavy Machine Shop. The next "Take Our Sons to Work Day," will be held on Monday, October 8. Parents interested in becoming a chaperone for the boys should sign up on the form that will shortly be sent to all employees, or contact Susan Foster, Employee Relations Manager, foster@bnl.gov, Ext. 2888.

Fire/Rescue Joins Effort

A squad of four BNL firefighters and one fire captain — all trained in technical rescue and hazardous material response, and as emergency medical technicians — left BNL on Rescue 4 on September 12, heading into New York City to help respond to the World Trade Center disaster.

As a result of BNL's mutual-aid agreement with Suffolk County, the BNL squad and truck were called out at the request of the Emergency Operations Center of the Suffolk County Department of Fire, Rescue, & Emergency Services. BNL Fire/Rescue responded together with firefighters and equipment from local fire companies, including Bohemia and Brookhaven. Rescue 4 is the Lab's newest, largest, and most sophisticated heavy-rescue truck.

The BNL's squad members called in were: Captain Charles La Salla of the Red Shift and Firefighters John Foley, Frank Palmeri, William Peterson, and Allen Licata of the Blue Shift.

According to BNL Fire/Rescue Chief Mike Carroll, all BNL Fire/Rescue members have the same qualifications and are prepared for rescue efforts at any time.

QuarkNet Links Physicists, Teachers



From July 9 to 20, 14 Nassau and Suffolk County high school teachers participated in BNL and Stony Brook University's 2001 Associated Teacher Summer Institute, part of the National Science Foundation and DOE's QuarkNet program. QuarkNet brings high school teachers and students together with scientists seeking to resolve mysteries about the structure of matter and the fundamental forces of nature. The program allows teachers to join physics research teams at local universities or laboratories, and teaches students fundamental physics as they analyze live online data and participate in inquiry-oriented investigations.

BNL Physics' Helio Takai took the lead in running the Lab's participation in QuarkNet. The program is growing, and currently includes 36 research institutions that are participating in collider experiments at BNL, CERN, and Fermilab. Pictured below at the ATLAS experiment lab, from left, are: Edward Pascuzzi, Glen Cove High School; Tara Newman, Hauppauge High School; Helio Takai, BNL Physics Department; Peggy Diggett, Brentwood High School; and Bob Mirro, Westhampton Beach High School.

Record 403 Units of Blood Collected



Joseph Rubino CNA-138-01

In response to the urgent need for blood following Tuesday's national disaster, a record 453 BNLers answered the call, and a record 403 units of blood were collected during the regularly scheduled Thursday, September 13, BNL Blood Drive.

The 403 units of blood more than doubled the previous BNL record for a one-day drive.

During the Blood Drive, Peter Paul, BNL's Deputy Director for Science & Technology, spoke to the waiting crowds of BNLers,

expressing his admiration of the Lab community's outpouring of support for the victims of the World Trade Center tragedy.

The Deputy Director explained: "BNL staff and guests should be very proud of how they have embraced New York City as part of the greater Lab community, supporting it in its hour of need through this blood drive and other charitable acts."

Paul continued, "The unity of the BNL community's support was demonstrated by

breadth and depth of the staff at the blood drive, as scientists, technicians, administrators, engineers, bargaining-unit employees, and other staff sat side by side in solidarity, waiting patiently to give the gift of life."

According to BNL Blood Drive Chair Sue Foster, because of the overwhelming response, even more BNL employees and on-site guests had to be turned away. The blood drive did not end until after 7 p.m., though scheduled to last only until 5 p.m.

Not only does Foster thank all those who came out to give, but she also thanks those who were

able to help out in support of the drive.

These people include: the employee-volunteers who assisted with registering donors and, post-donation, escorted them to the canteen; the drivers and other Transportation Office staff who helped in arranging for donor transportation via the BNL Courtesy Van; the Lab's food-service vendor, Flik International, and the American Red Cross, staffed by North Fork volunteers, both of which provided meals to the Long Island Blood Service staff working the drive; and employees in work areas around site who filled in while others donated.

"I am so proud of each and every BNL employee and guest who helped the Laboratory community meet the urgent need for blood at this crucial time in U.S. history," concludes Foster. — Marsha Belford



Joseph Rubino CNA-132-01



Joseph Rubino CNA-108-01

Generator (cont'd.)

flat-bed truck into the city, "We had to negotiate through the confusion of road closures, checkpoints, and emergency vehicle traffic. We arrived at our destination — West Side Highway and Chamber Street — at 11:30 p.m., where we were met by a crew from Con Edison."

The Con Edison crew there assisted the BNL team in off-loading the generator and associated equipment.

Said Murphy, "We were all horrified to see the destruction of the World Trade Center. Everyone wanted to go in to help the rescue effort in some way. Sending our generator was our tiny contribution." — John Galvin with Marsha Belford

Arrivals & Departures

Arrivals

none

Departures

Nancy Concadoro Human Res.

Defensive Driving

A six-hour defensive-driving course will be offered on Saturday, October 6, 9 a.m.-3:30 p.m., in Berkner Hall, Room B. The course is open to BNL, BSA and DOE employees, BNL facility-users, and their families, at \$23 per person. To register, send a check to Empire Safety Council, care of Scott Zambelli, P.O. Box 670, Mount Sinai, NY 11766. All checks must be received by September 28. Include your phone number in case you need to be contacted.

Chasman Scholarship Winner: Her Dream Comes True in the U.S.

Gerda Oruci, a native of Albania who moved to the U.S. in 1998, has won the 2001 Renate W. Chasman Scholarship for Women. Brookhaven Women in Science (BWIS) awards the scholarship annually to encourage women to pursue careers in science, engineering or mathematics.

Named after the late Renate Chasman, a renowned physicist who worked at BNL, the \$2,000 scholarship is awarded each year to a re-entry woman — one whose college education was interrupted, but who has returned to pursue a degree on a half-time or greater basis.

Oruci wants to become a mathematician for a large corporation or teach mathematics and statistics at the college level. She earned a bachelor's degree in mathematics from the University of Tirana in Albania in 1988. During the next four years, she taught mathematics at the high-school level. She returned to the university to study economics, 1992-1994, then taught for three more years.

Oruci then came to the U.S. seeking greater educational and career opportunities. With the help of her relatives in the U.S., she enrolled as a full-time student at the Bramson ORT College in Forest Hills, New York, where she studied accounting. In 1999, she became a tutor at the college. In 2000, she continued part-time studies in mathematics at Hunter College, and, in January 2001, she transferred to Columbia University, where she hopes to earn a master's degree in statistics next year. She said her dream is becoming a reality in the U.S. — Diane Greenberg



Gerda Oruci (right) is pictured with Pamela Mansfield, who administers the Chasman Scholarship for Brookhaven Women in Science.

View Lab Events, Videos at WBNL

Two Lab Divisions, the Information Technology Division (ITD) and Information Services Division (ISD), have collaborated to provide BNLers with a way to see live events or videos of Lab-wide interest at their personal computers. It is called WBNL.

ITD's Keith Lally and Chris Masullo, using a web-based technology called a streaming video server, have made it possible for 200 people at a time to access certain Lab events as they occur and to view any of several videotapes produced by Alex Reben, ISD. The 201th person will have a brief wait until one of the 200 spots is unoccupied. If demand increases, the service may be expanded to accommodate more people.

The latest addition to the program is the National Day of Commemoration's National Cathedral service seen at the Lab on September 14 (see story, page 1). ITD staff including Lally, Vinnie Bonafede, and John Bigrow; and Ray Dumont, Instrumentation Division, performed a Lab "first" at very short notice in capturing the live broadcast by ABC TV from Washington, D.C., via satellite and converting it to display on the big screen in Berkner, where it was viewed live by a large audience and taped by BNL Video.

The videotape is now at the WBNL web page, accessible at www.bnl.gov/video, with other options such as: "BNL Overview;" "RHIC, Exploring the Universe Within;" and "PHENIX, Creating a New View."

Calendar

(continued)

Tuesday, 9/25

BNL Toastmasters

12:05 - 12:55, Biology, Bldg. 463, Room #154. For more information, see www.bnl.gov/bera/activities/toastmstrs/default.htm.

Wednesday, 9/26

Safety Shoe Office Closed

Will reopen next week.

Divorced & Separated Support Group

noon-1p.m., Berkner Hall, Room D. Mary Campbell, Ext. 4776, maryc@bnl.gov.

Friday, 9/28

Softball Party

5:30 p.m., Brookhaven Center. All softball players, families, and friends are invited. Tickets, available at the BERA Sales Office, cost \$12 and include a hot and cold buffet dinner, two drink coupons, coffee, cake, and DJ music. Cash bar and raffles also available. For tickets, send check, made out to BERA Softball, to Andrea Epple, Bldg. 750; Sue Cataldo, Bldg. 801; or Laurie Pearl, Bldg. 459, by Wednesday, September 26. For more information, e-mail softball@bnl.gov.

Fri. - Sun., 9/28-30

Gauley River Rafting Trip

Bus leaves 6 a.m. on Friday. Contact Wally Hughes, Ext. 4180 or Bozie Sing, Ext. 5350.

—WEEK OF 10/1— Wednesday, 10/3

Divorced & Separated Support Group

noon-1 p.m., Berkner Hall, Room D. Mary Campbell, Ext. 4776, maryc@bnl.gov.

Thursday - Friday, 10/4-5

6th Annual Pine Barrens Research Forum

Berkner Hall. Forum will focus on comparisons between the Long Island Pine Barrens and the Regional Park in Tuscany, Italy. For more information, contact Tim Green, Ext. 3091, tgreen@bnl.gov.

Saturday, 10/6

Defensive Driving Class

\$23 per person. 9 a.m. - 3:30 p.m., in Berkner Hall, Room B. The course is open to BNL, BSA and DOE employees, BNL facility-users, and their families. To register, send a check to Empire Safety Council, care of Scott Zambelli, P.O. Box 670, Mount Sinai, NY 11766. All checks must be received by September 28. Include your phone number on the check in case you need to be contacted.

—WEEK OF 10/8— Monday, 10/8

Spanish Heritage Month Talk

Noon, Berkner Hall. Nora Volkow and Marcello Vaszuez. Topic to be announced.

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.

Roger Stoufenburgh CN7-189-01

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.

OPEN RECRUITMENT – Opportunities for Laboratory employees and outside candidates.

MK9130. POSTDOCTORAL RESEARCH ASSOCIATE – Requires a Ph.D. in physics or materials science with a strong background in electron microscopy. The position is in the Electron Microscopy Group, which is part of the Materials Science Division. This group conducts research in the areas of nano-scale electron beam characterization of advanced materials and runs the Electron Microscope Facility which as state-of-the-art electron microscopes and has strong interaction with scientists of the Physics and National Synchrotron Light Source Departments. Under the direction of Y. Zhu, Materials Science Division.

MK9131. POSTDOCTORAL RESEARCH ASSOCIATE – Requires a Ph.D. in physics or materials science with a strong background in electronic structure calculations of crystals and defects using density functional theory and molecular simulation methods in collaboration with scientists at our Center for Data Intensive Computing. The position is in the Electron Microscopy Group, which is part of the Materials Science Division. This group conducts research in the areas of nano-scale electron beam characterization of advanced materials and runs the Electron Microscope Facility which as state-of-the-art electron microscopes and has strong interaction with scientists of the Physics and National Synchrotron Light Source Departments. Under the direction of Y. Zhu, Materials Science Division.

MK9132. POSTDOCTORAL RESEARCH ASSOCIATE – Requires a Ph.D. in physics or materials science with a strong background in MBE film growth of nano-structured functional materials and near-edge fine structure of electron energy loss spectroscopy. The position is in the Electron Microscopy Group, which is part of the Materials Science Division. This group conducts research in the areas of nano-scale electron beam characterization of advanced materials and runs the Electron Microscope Facility which as state-of-the-art electron microscopes and has strong interaction with scientists of the Physics and

National Synchrotron Light Source Departments. Under the direction of Y. Zhu, Materials Science Division.

NS9065. FIRE PROTECTION/PROJECT ENGINEER II (P-7, reposting, ERAP eligible - \$1K) – Requires a BS in engineering with a minimum of 7 years' experience, or an MS in engineering with 3-5 years' experience. Experience in HPR class of insurance, excellent communication skills, and qualification for membership grade in the SFPE is required. PE license in Fire Protection preferred. Will participate in developing and implementing fire protection programs and procedures to eliminate personal injury, property damage, interruptions to programs and damage to the environment in accordance with BNL and OSHA, NFPA and DOE requirements. Job tasks include: surveying of facilities to determine potential hazards, recommending corrective action; reviewing construction plans, fire systems and safety procedures to determine appropriate fire safety measures and participate in all facets of fire investigations. Emergency Services Division.

NS9133. MATERIALS SCIENCE ASSOCIATE II (P-5) – Requires an MA or Ph.D. in physics or materials science with a strong background in electron microscopy. Will be responsible for the operation of the high-resolution field-emission 300 kV JEOL transmission electron microscope. Will provide training and assistance to the microscopy facility users and conduct research collaborations with researchers within the TEM facility as well as those from other departments and universities. Energy Sciences and Technology Department.

DD2141. HEAVY EQUIPMENT MECHANIC OPERATOR (Reposting) - Under minimum supervision maintains, operates, and repairs all material handling, earth moving, road and ground maintenance, and similar equipment, including complete repair and maintenance of gasoline and diesel engines and the use of required machine tools. Plant Engineering Division.

Bowling Scores

— High Rollers —
Purple & White League

High scores as of September 13

Pete Wynkoop	. 211/245/612
Eric Mamay	199
Henry Gent	185
Paul Callegari	184
Fern Simes	171
Liz Simes	170
Debbie Reynolds	170
Mary Grace Meier	164



the **Bulletin**

Published weekly by the Media & Communications Office for the employees, facility-users, and retirees of Brookhaven National Laboratory.

LIZ SEUBERT, editor
JOHN GALVIN, reporter
ROGER STOUTENBURGH, photographer

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

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