

Congressman Michael Forbes Apologizes for 'Hurtful' Words; Advocates BNLers' Continued Employment, Lab's Science Mission

In beginning an hour-long town meeting with a Berkner Hall audience of some 400 BNLers on Monday, July 14, U.S. Representative Michael Forbes reiterated an apology to Brookhaven employees and retirees that he had issued at an earlier town meeting.

The Congressman again apologized for speaking "words over the last few months that were hurtful and, perhaps, over-characterizations" of the situation at BNL following the January discovery of a tritium groundwater plume from a leak from the spent-fuel pool of the High Flux Beam Reactor (HFBR).

"Regardless of your own perspective on how you might feel about how these events came to be, I do appreciate that for you . . . it was a very personal attack, coming at a time when a good facility was being challenged, one that has provided for many, many years of important benefits to this nation and is recognized around the world," said the second-term Representative, who represents New York's First Congressional District in which the Lab is situated.

"To the extent that some of our statements contributed to [the daily barrage of criticism via the media], I apologize," stated Forbes, who came to Brookhaven to address employees



BNLers line up to ask U.S. Representative Michael Forbes questions during Monday's Town Meeting in Berkner Hall.

and retirees and answer their questions, as a follow-up to a June series of three town meetings, one each in Medford, Smithtown and Southampton.

However, the Congressman cautioned, no institution can afford to ignore problems regarding the environment, safety and/or health (ES&H) — whether actual or perceived. In reminding the audience of what can happen when public opinion is ignored, Forbes used the forced abandonment of the Shoreham Nuclear Power Plant

by the Long Island Lighting Company as an example.

He explained: "Many of us here can well remember what happened to Shoreham, and it had nothing to do with reality in a lot of cases: It had to do with perception and misinformation. But, over a decade, a tidal wave developed there — and I was going to be damned if I was going to see the same kind of tidal wave overtake this facility."

He continued, "We can spend a lot

of time debating [the extent and the appropriate cleanup of the environmental contamination caused by the tritium plume], . . . but we also have to appreciate that the public has a certain view, and it is difficult to change."

So, Forbes explained, "I felt, and [DOE] and the U.S. Environmental Protection Agency felt that to do nothing would have further jeopardized the standing of this world-class facility [within the local community] and that was not an option, politics or not."

(continued on page 3)

Peña Calls Bond

This past Tuesday, Interim Director Peter Bond was pleased to receive a phone call from U.S. Department of Energy Secretary Federico Peña, during which Peña said he wanted to reassure BNL employees that his decision to terminate the Laboratory's contract with Associated Universities, Inc., was a necessary management decision — one that BNLers should *not* take personally as a reflection on their efforts. In fact, Peña told Bond, Brookhaven is viewed as one of the jewels of DOE's national laboratory system.

Tandem Tests Ensure Mars Rover Endures Space Radiation

In a large, dry valley on the surface of Mars, 128 million miles away, a one-foot-tall remote-controlled rover named Sojourner has been exploring the Martian surface since July 4, sending data on Martian rock composition back to Earth and giving us clues about the origin of the solar system.

But before any data could be trans-

mitted from the rover to the Mars lander and back to Earth, the equipment had to survive the harsh environment of outer space and the Martian surface, where it was subject to temperature extremes and continually bombarded by cosmic radiation.

Scientists were confident, though, that the equipment would survive to

tell the tale — a confidence derived from extensive testing at Brookhaven's Tandem Van de Graaff Accelerator.

"The only way to find out what the effects will be of radiation in space is to subject the affected components and systems to radiation under controlled conditions," said BNL Senior Physicist Peter Thieberger, who heads the Tandem Facility.

The rover, which is the first remote-controlled vehicle to operate on another planet, communicates with the lander using inexpensive, commercially available radio transmitters and receivers. The radio equipment was made by Motorola and adapted

for the National Aeronautics & Space Administration's (NASA) flight by engineers at the Jet Propulsion Laboratory (JPL) in Pasadena, California.

Beginning more than three years ago, the JPL team, headed by Don Nichols, JPL's Test Director for Single Event Effects, tested Motorola radios and other electronic equipment at the Tandem's "Single Event Upset Test Facility."

There was definitely cause for NASA concern: When electronics are bombarded by heavy ions, the results can range from transmission errors or temporary interruptions to permanent

(continued on page 2)

Vladimir Zajic, a physicist who is in charge of the Single Event Upset Test Facility (SEUTF) at BNL's Tandem Van de Graaff Accelerator, examines a printed circuit board before irradiating it with an ion beam in the chamber. SEUTF was used by a team from the Jet Propulsion Laboratory to test the radio modem and computer components for the Mars rover and lander, which are now exploring the Martian surface. Other members of the Physics Department's Tandem Operations & Development Group, which supplies the ion beam for this and other experiments, are: Hans Abendroth, Sandy Asselta, John Benjamin, Charles Carlson, Irving Feigenbaum, David Graham, Alan Gustavsson, Harry Hacker, Peter Heilig, Leroy James, Mario Manni, Michael Morello, Brent Nelson, Walter Richters, Dannie Steski, George Virtes, George Westwater, Michael Wiplich and Michael Zarcone. Peter Thieberger is the Group Leader.



Instances of Poor Housekeeping, Operations Maintenance Cited in EPA's Preliminary Compliance Audit

In a July 15 letter to Energy Secretary Federico Peña, the U.S. Environmental Protection Agency (EPA) noted that it has found some violations or potential violations of environmental law at BNL, as its preliminary findings of a compliance audit being conducted at Peña's request.

Generally, "The violations EPA uncovered during our multi-program inspection of the facility are instances of poor operations maintenance and housekeeping," said Jeanne Fox, who is EPA's Administrator for Region II, in which BNL sits. As she noted, "none of the violations appear to present an imminent endangerment." That is, there is no immediate threat to workers, the public or the environment.

Specific violations noted by EPA included: improper storage of waste containing PCBs; improper storage of hazardous waste at the point it is

generated, and lack of sufficient training and record-keeping for those who generate that waste; existence of a pipe that may be the source of unpermitted discharge; and the need for greater attention to meeting air-compliance and reporting requirements for oil-burning boilers at the Lab's Central Steam Facility. (See sidebar on page 2.)

While at Brookhaven on May 1, the Energy Secretary asked for the audit in conjunction with his announcement that he was terminating the U.S. Department of Energy's (DOE) contract with Associated Universities, Inc., to operate the Lab. During the preliminary phase completed on May 15, EPA evaluated BNL's compliance with statutory and regulatory requirements regarding treatment and disposal of waste, pollution controls, operations

(continued on page 2)

Mars Probe (cont'd.)

damage. If electronics were damaged in space or on Mars, then it could kill the mission.

Instead, the results were encouraging. "They learned here that highly energetic ions hitting the radios did not permanently damage them but [instead] caused a condition called 'single-event latchup,'" Thieberger explained.

Single-event latchup occurs when an energetic atomic nucleus, called an ion, speeding through space, collides with a sensitive transistor. "Latchup is a pathological condition where the electronics generate huge currents," Nichols said.

Fortunately, the damage to the electronics was temporary — and reversible.

"By simply turning off the power and turning it back on, the problem could be solved," Thieberger said. "Software and timers were then developed to automatically cycle the power whenever this problem occurs on Mars."

None of the electronic equipment has experienced latchup on Mars, and it is unlikely that it will, Nichols added. But because there is a chance, it was worthwhile to ask. "They have to make sure that these things are going to work in the radiation environment in space," Thieberger explained.

The Tandem Van de Graaff Accelerator is ideally equipped to simulate



NASA photo

The Sojourner rover sits on the lander over the Pathfinder spacecraft's deflated airbags, soon after landing and before being deployed on the Mars surface. The Mars Pathfinder is the second in NASA's Discovery program of low-cost spacecraft with highly focused science goals. The Jet Propulsion Laboratory, Pasadena, California, developed and manages the Mars Pathfinder mission for NASA.

cosmic radiation, Thieberger said. Pure beams of a single type of ion can be generated and aimed at the test sample, and the energy of the beam can be precisely tuned.

Sixty-five different ions can be generated, ranging from protons to heavy ions like uranium. The JPL team was thus able to mimic the abuse that electronics would be subject to in space, where it might be struck by protons and ions as heavy as iron.

Built in 1970, the Tandem Van de Graaff Accelerator was used for low-energy nuclear physics experiments for ten years, then converted to high-

energy uses. It has been used to test space hardware since 1984, and now more than 60 companies, laboratories and agencies from the U.S., Europe and Japan test space hardware at the accelerator each year.

"This is one specific example of ongoing series of accelerator tests," Nichols said.

Equipment for other space missions that has been tested at the accelerator includes lenses, mirrors and fiber optics used for the Hubble Space Telescope. A particle spectrometer, which will measure the types and abundance of high-energy particles in space, was

also calibrated there.

Another Martian mission, called the Mars Global Surveyor, also had components tested at the Tandem. The Surveyor is due to orbit Mars this fall.

Other companies use the facility for industrial purposes, including one company that owns a beam line used to manufacture plastic filters for microscopic particles, including bacteria and viruses.

"The high-tech industrial and technological applications are compatible with our research, and they make efficient use of our unique machines," Thieberger said.

The accelerator's main purpose, however, is to supply beams of high-energy ions, including gold ions, to the Alternating Gradient Synchrotron and, beginning in 1999, to the Relativistic Heavy Ion Collider.

Thieberger believes that the nuclear physics, while less intuitive to laymen than space exploration, is just as interesting and exciting.

"It's all the same kind of interest we have in exploring our universe," he said. "It's just that we are exploring the microscopic world of subatomic particles."

— Dan Ferber
For more information on the Mars rover telecommunications, point your web browser to <http://www.sun.com/mars/rovercom/radio.html>. For more information on BNL's Tandem Van de Graaff facility, see <http://www.tvdg.bnl.gov/>.

EPA Audit (cont'd.)

and maintenance procedures, and self-monitoring and reporting records and practices.

Fox commented, "We appreciated the full cooperation that DOE and [BNL] provided during this first phase of our investigation."

Because DOE and BNL worked closely with EPA during the first phase of this audit, many of the findings have already been corrected, or plans are already in place to resolve them. For instance, the PCB-contaminated waste has been properly disposed of.

"We at Brookhaven accept fully that, while our operations are in compliance with many of EPA's environmental laws and pose no immediate threat to environment, safety and health, there are areas where we need to improve," commented Interim Laboratory Director Peter Bond.

The second and third phases of EPA's investigation will be conducted by DOE and BNL under EPA guidance. The second phase began on Wednesday, July 16, with the on-site arrival of an EPA team, and it is focusing on BNL's compliance with environmental law in processes that generate hazardous waste, as well as for opportunities to minimize the production of waste and to prevent pollution. The third phase is a review of environmental management issues at BNL, which will begin later this year.

EPA's letter to Peña also contained the comment: "BNL needs to continue with its own inventory of its waste-producing processes, as well as its independent review of environmental management systems, as it implements improvements in response to the recent DOE [Integrated Safety-Management Evaluation]." That evaluation was conducted following the January discovery of a tritium plume resulting from a leak of the spent-fuel pool of BNL's High Flux Beam Reactor.

As Peña noted in response to EPA's letter, "We're taking steps to improve management at Brookhaven so that attention to environment, safety and health issues becomes an integral part of the way they do business."

Bond anticipates, "[EPA's] efforts, combined with BNL's Management

EPA's Findings, BNL's Actions

The preliminary findings in each of the U.S. Environmental Protection Agency's (EPA) audit categories, along with the actions BNL has taken or are taking to address them, are listed below:

- **Radiation:** BNL is in compliance with EPA's air emissions standards for radioactive elements. The Lab will further evaluate low-level activation of concrete accelerator shielding blocks.
- **Emergency planning & community right-to-know:** BNL is in compliance; the Lab is now voluntarily conducting a site-wide chemical inventory.
- **Underground injection wells:** BNL is in compliance for cesspools and dry wells. EPA has stated that DOE needs to survey the Lab's injection wells better to ensure compliance with the Safe Drinking Water Act.
- **Toxic releases:** BNL is in compliance with these guidelines, also known as SARA Form R emissions. EPA has requested information on the Lab's chemical use from previous years.
- **Water discharges:** BNL is largely in compliance, except for a concern involving permitting of stormwater at the Hazardous Waste Management Facility (HWMF), and a concern over a valved pipe at the Sewage Treatment Plant that BNL has now agreed to seal to prevent accidental unpermitted discharge. The Lab is now pursuing a permit for the stormwater discharge at the HWMF, which is in the process of being decommissioned and transferred to BNL's Superfund cleanup program. A new, state-of-the-art facility with modern stormwater controls has been built to handle Brookhaven's hazardous waste, beginning this fall.
- **Air emissions:** BNL was largely in compliance with EPA's Clean Air Act standards, with the exception of compliance and reporting requirements for oil-burning boilers at the Central Steam Facility, which provides steam heat to some Lab buildings; this concern has since been addressed. Also noted were: labeling requirements for gasoline pumps at the BNL gas station; timely leak repairs on refrigeration equipment; and notification for removal of asbestos. The Lab is working to improve these areas.
- **Underground petroleum storage tanks:** BNL has delivered to EPA six of eight reports on underground tanks that were decommissioned in 1990-1991; the remaining two reports will be delivered to EPA presently.
- **Toxic-substances management:** BNL was found to have been improperly storing 15 gallons of waste containing polychlorinated biphenyls, or PCBs. The waste has since been disposed at an approved off-site facility. An EPA inspector also noted occasional, but not significant, violations of a requirement to move PCB wastes to proper storage within 30 days; BNL was commended for responding quickly and appropriately to the discovery of PCBs in unexpected locations.
- **Hazardous waste handling & disposal:** Brookhaven's violations in this area were largely concerned with storage of hazardous waste at the point of generation, and training and record-keeping for those who generate hazardous wastes. The concerns centered on just six of the more than 3,500 containers of hazardous waste handled at BNL each year. The Lab has since corrected many of these deficiencies and will work to correct them all. Waste handling and training at the HWMF were found to be in compliance.
- **Spill prevention controls:** EPA had concerns over administrative issues related to BNL's spill-prevention control and countermeasures plan. BNL has resolved many of those issues and has provided a schedule to resolve those still outstanding.

Systems Improvement Plan, now being undertaken by the Lab's top administration, and DOE's 30-Day Action Plan will improve environmental management at Brookhaven." Peña had requested that DOE prepare an Action Plan for improving the Lab's management within 30 days of his May 1 termination decision. The final ver-

sion of that plan was also issued on July 15 (see above notice).

"We have every confidence," stated Fox, "based on comments from Secretary Peña right down to the local leadership at BNL, that the Lab has embraced a new way of doing business when it comes to environmental safety and public health."

30-Day Action Plan: Final Version Issued

The U.S. Department of Energy (DOE) issued the final version of its 30-Day Action Plan for improved management of BNL, on Tuesday, July 15.

The plan was devised by the Director of DOE's Office of Energy Research, Martha Krebs, at the behest of Energy Secretary Federico Peña, who had asked that it be drafted within 30 days in response to the findings of the Integrated Safety Management Evaluation of the Lab released on May 1 (see Brookhaven Bulletin, May 9, 1997).

The draft plan was released on June 10 (see Brookhaven Bulletin, June 13, 1997), at which time the public was invited to comment on its contents. As a result of public comment, the only change to the report was the incorporation of a commitment to survey attitudes toward environment, safety and health at the Lab.

To review the final plan, as well as all the comments received on the draft and DOE's response to them, go to the World Wide Web location <http://www.doe.bnl.gov>.

ConOps Meeting

The Quality Management Office will give conduct-of-operations (ConOps) coordinators an overview of the BNL ConOps program and the Integrated Safety Management Evaluation's ConOps issues at 9:30 a.m. on Wednesday, July 23, in the second-floor seminar room, Bldg. 515. To attend, contact Gina Bernard, Ext. 3689, or e-mail ginab@bnl.gov by Monday, July 21.

Coming Up

Gregory Landsberg, Fermi National Accelerator Laboratory, will deliver the 1997 Sambamurti Memorial Lecture on Monday, July 28. Entitled "Precision Electroweak Measurements at D-Zero," his talk will begin at 3 p.m. in the large seminar room in the Physics Department, Bldg. 510.

Lecture on Properties Of Elemental Heavies

Until recently, the short half-lives and extremely low production rates of the heaviest elements meant that their chemical properties were largely unknown. Now, with computer-controlled, automated liquid and gas-phase chromatography, the properties of heavy elements such as rutherfordium and seaborgium can be investigated and compared with appropriate lighter elements. The architecture of the periodic table can, therefore, be explored into its furthest reaches.

To talk about her work on the latest research on seaborgium and the feasibility of studying even heavier elements, Darleane Hoffman, who is Professor of Chemistry at the University of California, Berkeley, and Faculty Senior Scientist at Lawrence Berkeley National Laboratory (LBNL), will give a seminar on "Atom-at-a-Time Chemistry of the Heaviest Elements."

Sponsored by Brookhaven Women in Science and the Chemistry Department, the talk will begin at 3 p.m. in Chemistry's Hamilton Seminar Room, Bldg. 555, on Monday, July 21. Coffee will be served before the seminar.

Hoffman received her B.S. in chemistry and Ph.D. in nuclear chemistry from Iowa State University. She was the first Director, 1991-96, of the Glenn T. Seaborg Institute for Transactinium Science at Lawrence Livermore National Laboratory and LBNL. Hoffman discovered plutonium-244 in nature and made the first observation of enhanced symmetric mass division during the spontaneous fission of heavy fermium isotopes. Her group's firsts include the confirmation of the discovery of seaborgium.

Hoffman has received the American Chemical Society (ACS) 1983 Award in Nuclear Chemistry, the ACS 1990 Garvan Medal, 1990 election to the Norwegian Academy of Sciences & Letters, and the 1997 U.S. National Medal of Science.

Potential Bidders Visit Laboratory



Seventy-seven people representing organizations that might bid to become Brookhaven's next contractor visited the Lab on Wednesday, July 9, for a tour organized by the U.S. Department of Energy's (DOE) Source Evaluation Board. Here, some of the potential bidders leave the High-Field Magnetic Resonance Imaging (MRI) Laboratory, which is part of BNL's Center for Imaging & Neurosciences and was one stop on the tour that also brought them to BNL's other major facilities and the Lab's Sewage Treatment Plant. They also drove by various environmental restoration projects, the Hazardous Waste Management Facility, the housing area and the Child Development Center. Additionally, they heard from representatives from DOE offices that support BNL's scientific programs, and then from BNLers representing scientific staff, other Lab employees and retirees. Those who want to move beyond the "potential" stage to become actual bidders await DOE's release of the Request for Proposals, which, at press time, was expected to be issued shortly.

BWIS to Hold 18th Annual Summer Reception

Brookhaven Women in Science (BWIS) will hold its 18th annual Summer Reception, on Monday, July 28, 5:15-7 p.m., in the Physics Department courtyard, Bldg. 510. This year's reception will feature the presentation of the 1997 Renate W. Chasman Scholarship, to Janet Dowdy of Sayville, at 5:45 p.m.

All employees and visitors are invited to enjoy light refreshments, beverages and wine, though a donation for the wine will be appreciated. For more information, call Vinita Ghosh, Ext. 3527; Louise Hanson, Ext. 7709/5849; or Lisa Tranquada, Ext. 7731.

Arrivals & Departures

Arrivals

none

Departures

This list includes all employees who have terminated from the Lab, including retirees:

Walter Y. Kato.....Adv. Technology

Whitewater Weekend

Double run the Gouhilly River, October 3-5. The package includes lodging, rafting, and some meals; for prices, call Ken Sutter, Ext. 4514; or Sarah Welsh, Ext. 3541, by Friday, August 1.

Town Meeting

(cont'd.)

However, he added, "I think the view . . . now is that the Lab has been very responsible in dealing with the problems, so community angst has dropped markedly. They still have their concerns, sure, but not at the same level as in January, February and March. I think that is largely because of what you folks have done within your own communities — telling your neighbors what is really happening at BNL."

Forbes also credited Secretary Peña for making BNL "such a high priority" by "investing tremendous management resources into dealing with this." As the Congressman said, "That sends a strong signal that BNL is important in Washington, [D.C.], and they want to keep this facility operating at its full capacity and doing the good work

that you have done for the past five decades."

In fact, Forbes stated, "I'm hopeful that, once [DOE does] a top-to-bottom review [after] the [spent-fuel pool] liner is in, they'll be able to put the [HFBR] back on line for research.

"We don't want the reactor shut down because of . . . of folks who don't understand its importance and its safety — and it is a safe reactor . . . and has operated for many years without a problem," he added.

Forbes continued, "I know there are some folks who . . . say, 'Gee, Forbes, let's figure out a whole new mission for the Lab like solar energy.' I tell them point-blank that there is no constituency for that. There's important work being done here, so there's no need to create a whole new mission for the Lab. . . . [T]here is no public sentiment for that.

"I honestly believe that public sentiment is in favor of the Lab continuing to do the work. Yes, the public wants the problems cleaned up, but they very much want the work to continue," the Congressman concluded.

Forbes to 'Weigh in'

Following his brief presentation, Forbes was questioned by members of the audience, who were particularly concerned about the likelihood of increasing the Lab's overhead rate as a result of the fee to be based on BNL's overall performance that will be paid to the Lab's next contractor, and about the possibility of layoffs given increases in management fees, overhead, ES&H costs, etc.

Regarding the fact that the Lab's next contractor, which is to be selected

by DOE by November 1, will be rewarded for the Lab's good performance with a bonus taken from the Lab's funds, BNL's Associate Director for Administration, Hank Grahn, commented, "If we perform well, it zings us — there is no incentive for us to perform well as it hurts science."

While he later promised to "weigh in" on the Lab's side of this conflict as DOE moves closer to choosing a new contractor and, hence, the management-fee structure, Forbes called upon John Wagoner, who is Executive Manager of DOE's on-site Brookhaven Group, to comment.

As Wagoner explained, "I don't know what the fee numbers will turn out to be when the contract is negotiated, but it is likely that the fee will be higher than it has been under the contract [with Associated Universities, Inc., (AUI)] in order to attract the kind of team to correct existing problems and avoid [similar problems] in the future. [DOE] certainly feels that investing the appropriate amount to ensure that we've got the kind of expertise that we need to avoid repeating the mistakes of the past is a worthwhile investment."

Martha Krebs, who is Director of DOE's Office of Energy Research and had accompanied the Congressman to this town meeting, also addressed the inherent conflict for BNLers in the proposed management-fee structure.

Krebs maintained, "The conflict between proper [financial] incentives to lab contractors and maintaining overhead that is not burdensome on science is crucial. I think it is a necessary tension in the management of

How to Interact With Potential Offerors

As the U.S. Department of Energy (DOE) proceeds with selecting a contractor to operate BNL, potential offerors have started to contact Lab employees for information.

DOE is neither discouraging nor encouraging these communications at this time, but it has requested that employees be informed that it is inappropriate to hold discussions with potential offerors during usual working hours. Also, DOE-owned equipment such as computers, fax machines or telephones should not be used for these exchanges of information.

Employees contacted by potential offerors needing information about the procurement process to select a contractor to operate the Lab should refer them to Joseph DaSilva in the on-site DOE Brookhaven Group, Ext. 7063.

AUI Retirement Plan

Because of recent changes in retirement-plan law, the following options have been added to the Associated Universities, Inc., (AUI) retirement programs:

- **AUI Retirement Plan:** Participants are no longer restricted to a "one-time-only" access to the 25 percent maximum that they can withdraw as a lump sum on terminating employment at age 55 or older. Instead, the entire 25 percent of accumulation must be available or transferred to TIAA-CREF; the initial lump sum withdrawal must occur before benefits are received through an annuity.
- **AUI Supplemental Retirement Annuity Plan:** Participants may enter into a revised salary reduction (SRA) agreement one time per calendar month, not once per calendar year, which was the previously limit.

Also, contrary to past practice, vacation and severance pay at termination of employment may now be included as compensation for the purpose of tax-sheltering under the Plan.

these institutions."

'Personal Assurances'

Given the higher management fee plus the performance bonus to be paid to BNL's new contractor, and the higher costs for more ES&H protection, Grahn and others questioned whether or not BNL employees would be protected from layoffs, given the money that has to come out of the Lab's budget in times of stagnant or declining funding.

Wagoner conceded, "It's a balancing act." As he pointed out, when U.S. Department of Energy Secretary Federico Peña came to BNL on May 1 to announce the termination of DOE's contract with AUI to operate BNL, he said, "This isn't about cutting jobs." But, Wagoner added, "I can't give you assurances that there won't be any adverse impacts."

Forbes, however, contended, "I was given personal assurances that the folks who are working here now at the Lab would be held harmless — and that is what my goal is during this transition. We'll be in there fighting for that. This has been at the core of my conversations with DOE, and we'll be working our damndest to make sure that promise is fulfilled." Forbes recommended that employees keep in touch with him through his office "if things come up."

The Congressman concluded, "This is a world-class facility and we've sure had some tough times. Let's go forward. Let's make sure that this continues as a world-class facility and make sure each and everyone of you is protected as we move forward."

— Marsha Belford

BROOKHAVEN BULLETIN

Published weekly by the Public Affairs Office for the employees of BROOKHAVEN NATIONAL LABORATORY

ANITA COHEN, Editor
MARSHA BELFORD, Assistant Editor

Bldg. 134, P.O. Box 5000
Upton NY 11973-5000
Tel. (516) 344-2345; Fax (516) 344-3368

World Wide Web:
<http://www.pubaf.bnl.gov/bulletin.html>

The Brookhaven Bulletin is printed on paper containing at least 50 percent recycled materials, with 10 percent post-consumer waste. It can be recycled.



Summer Student Group Photo-Op

If you are a student or a teacher working or participating in a program on site this summer, come on down to Berkner Hall, Monday, July 21, at noon for a group photo. The photo will be included in the special student issue of the Brookhaven Bulletin, which will come out August 1. Arrive at Berkner Auditorium at noon sharp — if everyone is there on time, then it shouldn't take too much time out of lunch. Spread the word, gather your friends, and make sure you have a great souvenir of your summer at BNL!

BERA Bus Trips

The following bus trips can only be run if enough tickets are sold by their deadlines. So, if you want to sign up, then don't delay. For more information, call M. Kay Dellimore, Ext. 2873, or Andrea Dehler, Ext. 3347.

• **Bronx Zoo:** ZooVenture includes general admission, zoo shuttle round-trip, Bengali Express Monorail, Skyfari cable car one way, children's zoo, Worlds of Darkness, World of Reptiles and Jungleworld — Saturday, July 26, \$26/adult, \$24/child of 12 & under. **Deadline to sign up is today, Friday, July 18.**

• **Atlantic City:** Trip to Resorts Hotel and Casino on the boardwalk — Saturday, August 9, for people of 18 years or over only. The initial cost is \$25, but the hotel-casino gives a \$10 coin return. **Sign-up deadline is Friday, August 1.**

• **Six Flags/Great Adventure Park:** Features Batman Ride, the Right Stuff MACH1 Adventure, the Great American Scream Machine, the Viper, a water & stunt show, and Skull Mountain indoor roller coaster — Saturday, August 23, \$45/person. **Sign-up deadline is Friday, August 1.**

All trips include admission and roundtrip bus transportation from BNL on a video-and-bathroom-equipped bus. Paid reservations will be taken first-come, first-served, at the BERA Sales Office in Berkner Hall, weekdays, 9 a.m.-1:30 p.m.

Weight Watchers

Registration for the next on-site, lunchtime Weight Watchers series will be held on Wednesday, July 30, at noon in the South Dining Room of the Brookhaven Center.

The class will meet on Wednesday for a special ten-week summer program. Since the Lab pays \$10 per participant, the fee is \$89 per person. For more information, call Health Promotion Specialist Mary Wood, Ext. 5923 or Ext. 6251.

Deadline for BB Notices

A new deadline has been set for submitting items for publication in the Brookhaven Bulletin: With the exception of job postings from the Human Resources Division, all items must be received in the Bulletin Office by noon on the Friday before the week of publication.

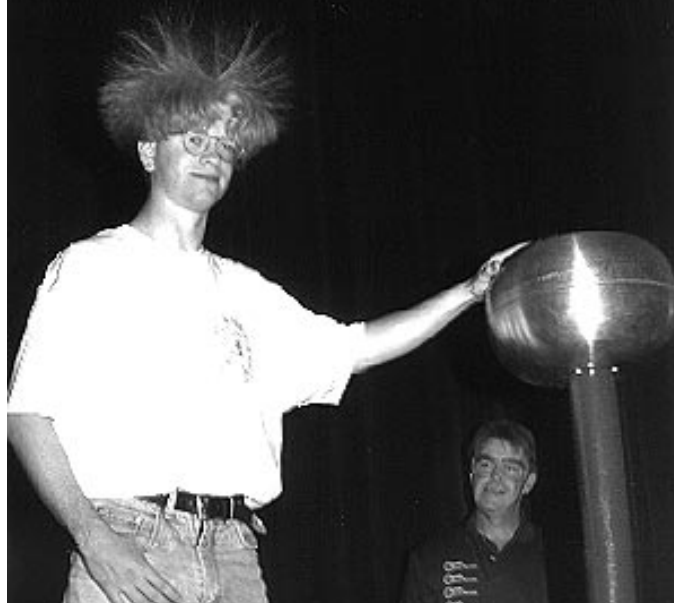
Yes, this includes *your* item!

Softball

Results reported as of July 7

League E1		League M1	
Magnuts	8-1	Gour-Mets	6-1
Phoubars	8-2	Happy Hour	5-1
Blue Jays	5-4	Stingrays	5-1
Cleen Sweep	4-6	Hit 'n Run	2-4
System	4-6	OER Wellheads	1-5
Hammerheads	0-10	Good Timers	0-7
League E2		League M2	
Scram	7-1	Varmints	4-1
Phytinphytos	6-2	Skeleton Crew	2-1
Contaminators	5-2	Mixed Nuts	2-2
CCD	5-3	No Names	1-3
Gas House Gorillas	4-4	What's on 2nd	1-3
Hy Tech	4-4	League E3	
Feds	3-4	Sure Fire	5-2
Lights Out	3-5	Bombers	4-3
Phase Out	2-6	Sultans of Swat	4-3
Mesocyclones	0-8	Medical	1-6

'Whiz Bang' Summer Sunday Tours



This summer, encourage your friends, family and neighbors to whiz into the Lab on a summer Sunday for a gee-whiz wonderful time watching BNL's free "Whiz Bang Science Show." As tour guide Keith Richardson is demonstrating, the show is a fun way to get to know basic science principles without tearing your hair out. Back by popular

demand, the one-hour, interactive Whiz Bang show will run four times each Sunday — at 10:30 a.m., noon, 1:30 p.m., and 3 p.m. — until August 24 as part of the free BNL Summer Sunday tours run by the Museum Programs of the Public Affairs Office. Whiz by yourself, too. No reservations are needed.

— Photo by Joe Rubino

Lab's 50th Anniversary Picnic Saturday! Buy the 'Absolute' Last Tickets Today!

A few more tickets have become available for the Lab 50th Anniversary Picnic tomorrow, Saturday, July 19, from 11 a.m. to 7 p.m. So, if your plans have changed, then come eat, drink and be merry — enjoy the free food and refreshments, ices and cotton candy, magnificent parade and crazy games, DJ music and dancing competition, and lots more. Tickets cost \$6 for adults, \$4 for children under 12, and under-3s go free. To purchase last-minute tickets, call Rosalie Piccione, Chair of the Special Events Committee which organized the Picnic, at Ext. 3160.