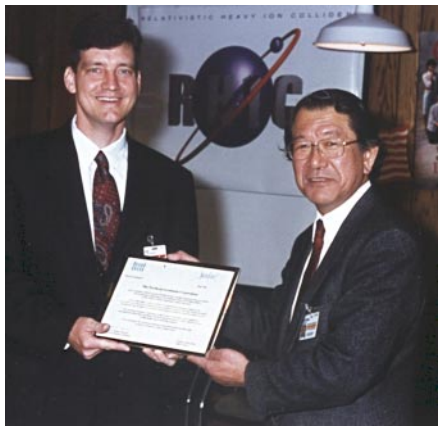


## Good to the Last Dipole

On May 29, the last dipole magnet for BNL's Relativistic Heavy Ion Collider (RHIC) was delivered to the Lab by the Northrop Grumman Corporation. This delivery marks the end of a four-year contract and an outstanding partnership between BNL and Northrop Grumman.

"All of the magnets are of extremely high quality, in fact, the highest quality dipole magnets for accelerators to date," explained Doug Fisher, BNL's program manager for the Northrop Grumman contract. "The dipole mag-



**Satoshi Ozaki, Head of the RHIC Project, presents Ed Sheedy, Program Manager, Northrop Grumman Corporation, with a certificate of appreciation for work completed on the dipole magnets.**

nets delivered by Northrop Grumman have performed exceptionally well, and were delivered on time and within budget. In fact, the last magnet was delivered two days early."

This was the first time that industry has worked with the Lab to manufacture such a technical and highly specialized piece of equipment. Fisher thought the first few magnets might not meet BNL's very tight standards, but, "the first magnet off the line went into the ring," testified Fisher. In the end, Northrop Grumman's ability to reproduce, exactly, the success of the first magnet moved the project forward quickly and efficiently.

When RHIC begins operating in 1999, heavy ions will speed in two directions around a 2.5-mile ring-shaped tunnel, then smash together at designated points to mimic the creation of matter immediately after the Big Bang. Ranging from about three meters to ten meters in length, the dipole magnets will steer the beams of heavy ions around the ring.

For Satoshi Ozaki, Head of the RHIC Project, the end of this phase of the project has brought mixed feelings. "I am glad the dipoles are complete, but sad this good partnership has come to an end."

With the contract completed, many of the Northrop Grumman employees who built the RHIC dipole magnets



Roger Stoutenburgh

**Surrounded by RHIC dipole magnets in Bldg. 902 after the Northrop Grumman Corporation (NGC) delivered the last one to BNL are: (counterclockwise from bottom left) Ed Sheedy, NGC; Mike Anerella, Head of the RHIC Magnet Production Group; Tom McGuire, NGC Production Manager; Charlie Briening, BNL Liaison; Scott Seberg, NGC Production Floor Manager; Rydell Coffey, NGC; and Robert Duffy, NGC.**

are expected to be laid off. But, BNL has invited a number of these people to Brookhaven to help to complete the other magnets needed for RHIC. "The people who worked on the floor at Northrop Grumman are technically excellent and productive people," Ozaki said.

The first dipole magnet was deliv-

ered in May 1994 and installed in the RHIC tunnel in August of that year. The manufacture of all 373 dipole magnets was completed in almost exactly two years. RHIC's collider parts, which include the dipole magnets, are now approximately 70 percent complete, and the detectors are 40 percent complete. — Sarah Gilbert

## History of Research Van de Graaff Is History of Nuclear Research

It has a history nearly as old as the Lab itself. But the end has come for what was once a major part of nuclear research at BNL.

The 3.5-MV Research Van de Graaff, which had been at the Lab in Bldg. 901 since 1949, was disassembled last month. Its removal clears the way for a new ion-beam facility for medical and other applications.

"It was a simple machine that evolved into a real workhorse in nuclear physics," said Keith Jones, Department of Applied Science. Jones had worked with the machine since 1960. "It was one of the first of its kind."

Hundreds of scientists and students worked on this Van de Graaff, especially during its peak years in the 1950s and '60s. Nearly 300 papers were published with results from the machine.

This Van de Graaff was one of the first machines that allowed scientists to look at the structure of atomic nuclei. A large canvas conveyor belt carried electrons to a rounded terminal. Positively charged ions then were repelled from the terminal and shot down the accelerating tube to the target. After they hit the target, the ions scattered in different directions, which told scientists about the structure of the nucleus.

The Research Van de Graaff had a troubled beginning, recalled David Alburger, who had started working with the machine just after it was purchased from General Electric (G.E.) in 1948. G.E. delivered the Van de Graaff in 1949, but Brookhaven researchers soon found that the machine was func-

(continued on page 2)



Roger Stoutenburgh

**Until it was disassembled last month, the 3.5-MV Research Van de Graaff was one of the oldest working accelerators in the nation. Keith Jones (left) had worked with the machine since 1960; David Alburger had worked with it since it was delivered to BNL in 1949.**

## DOE Inspector General Says BNL Is a Safe Place to Work

The Office of the Inspector General (IG), U.S. Department of Energy (DOE), has completed its investigation of the environmental and safety concerns at BNL that were raised by a Lab employee. The investigation was undertaken in response to a formal request by Senator Alfonse D'Amato and Congressman Michael Forbes.

Though the report has not been officially released to the Laboratory, a copy was sent to Carson Nealy, Manager of the DOE Brookhaven Group, who commented on it for the Brookhaven Bulletin.

"In general, the investigation found no conditions at the Lab that are an immediate threat to the environment, worker safety or public health," said Nealy. "The investigation confirmed what we already knew: The BNL site is a safe place for workers and visitors alike. Our first priority has always been the health and safety of our employees, visitors and neighbors."

He added, "The IG investigation covered issues that both DOE and BNL are familiar with." He acknowledged that the Lab does have particular areas on site that are contaminated with either chemicals or low-level radiation, but some of these areas of concern were remediated before the investigation. In addition, he said, managerial deficiencies cited in the IG report should be corrected by the end of the fiscal year.

An investigator from the IG's office came to the Lab on January 31 and February 1, 1996, to interview individuals and gather information. The office later requested additional docu-

(continued on page 2)

## BNL Lecture: Top This — The Tale of the Last Quark's Discovery

For nearly two decades, the hunt was on: High-energy physicists worldwide concentrated on discovering the last missing quark — the top.

The intense search for the top quark began after the 1977 finding of its companion — the bottom quark. Investigations continued at higher and higher energies until March 1995, when the massive particle was finally discovered by two rival experiments at the Tevatron Collider at Fermi National Accelerator Laboratory.

One of the discoverers was a 42-institution collaboration called DZero (D0), which, since its inception in 1983, has included members of the Omega Group in BNL's Physics Department.

To tell the story of the top's discovery and its fundamental importance



Roger Stoutenburgh

**Serban Protopopescu**

to physics, Omega Group member Serban Protopopescu, a physicist in the Physics Department, will give the 317th Brookhaven Lecture on Wednesday, June 19. Protopopescu, one of the founders of the D0 experiment, will talk about "The Route to the Top: Search for the Last Quark," beginning at 4 p.m. in Berkner Hall. He will be introduced by Deputy Physics Chairman Michael Murtagh.

The top is one of six quarks — up, down, charm, strange, bottom and top — which, according to particle-physics theory, existed at the birth of the universe. Up and down quarks still exist naturally, making up the protons and neutrons in atomic nuclei. But scientists can only observe the

(continued on page 2)



# Scientists Gather to Discuss Neutron Scattering

In February, a well-attended Workshop on the Use of New Imaging Plates in Neutron Scattering was held at BNL. Neutron scattering is a technique used at research reactors, such as BNL's High Flux Beam Reactor, to measure interactions that take place



when the reactor's neutron beam hits a stationary target. The way the neutrons are scattered by the target can help researchers determine the structure of liquid and solid materials, as well as the atomic architecture of macromolecules. The imaging plates record the intensity of scattered neutrons using a novel neutron-sensitive film that has a large area and high sensitivity. The fine grain of the image plate allows researchers to detect neutron patterns with unprecedented resolution, and the flexibility of the films makes it possible to construct curved wide-angle detectors economically. Image-plate scanners read the neutron images directly as digital images, and, after the data are gathered, the remnant image can be completely erased by exposure to intense light. Shown above (from left), the meeting's organizers include: Gail Schuman, Dieter Schneider, Donna Zadow, Ann Emrick from the Biology Department, and Ulrich Wildgruber and Thomas Vogt from the Physics Department. — Sarah Gilbert

# In Memoriam

Carl Dover, Senior Physicist and Nuclear Theory Group Leader in the Physics Department, died on June 4, after a long battle with brain cancer. He was 55.

"Carl was one of the most renowned and respected nuclear physicists in the world," said Physics Chairman Peter Bond. "He had a wide-ranging impact on a variety of sub-fields through his publications, talks and service on a number of national and international committees, notably the four Long-Range Plan-



Carl Dover

ning Committees advising the Department of Energy and the National Science Foundation on future priorities and directions in nuclear physics in the U.S. He will be greatly missed."

Dover, who earned his Ph.D. at the Massachusetts Institute of Technology in 1967, joined BNL as an assistant physicist in 1971. In 1975, he became Physicist, then Senior Physicist with tenure in 1985. A recipient of the Senior Science Fellowship from the Alexander von Humboldt Foundation in 1988, he won BNL's highest honor, the Distinguished Research and Development Award, in 1995.

In 1993, he was elected Chairman of the Nuclear Physics Division of the American Physical Society. He was a visiting professor of physics at Yale University and at the State University of New York at Stony Brook. In January 1995, Dover delivered his 90th and last invited talk at the International Quark Matter '95 Conference, in Monterey, California.

Dover's main body of work focused on hypernuclear physics, the study of nuclei containing hyperons, for which he was cited in a report by the National Nuclear Physics Review Panel as "the intellectual leader in the theory community for hypernuclear and other strangeness-related physics."

Dover also worked on searches for the H-dibaryon. Beginning in the 1980s, his research centered on higher energy collisions with heavy ions, including strangelet searches. Among his other fundamental contributions were pioneering work on the theory of pion interactions with nuclei, studies of the mechanisms of proton-antiproton annihilation, and, finally, investigations of baryon number nonconserving processes in the nucleus.

Sidney Kahana, Physics, who first invited Dover to Brookhaven, perceived him, "most of all as a close friend, who grew in creativity and stature from the moment of his arrival. He worked in a broad spectrum of physics problems, but achieved his greatest recognition in the field of hypernuclei. Carl was *the* acknowledged expert and authority in this subject. His inner strength and positive mindset were characterized by his approach to inevitable death. He was fully aware of the graveness of his illness, but continued to function, happily, powerfully, performing his many duties, all in high spirits. I will remember him most for his close friendship. We will always miss him."

John Millener, Physics, describes Dover as "a man of great energy and unfailing good humor. His style was to look ahead to experiments which could lead to significant advances in a field."

Dover, who was a resident of Port Jefferson, is survived by his wife Sylvia, his daughter Anna and son Dimitri, and his sister-in-law Anna Kartsonis. — Liz Seubert

## Inspector General's Report

(cont'd.)

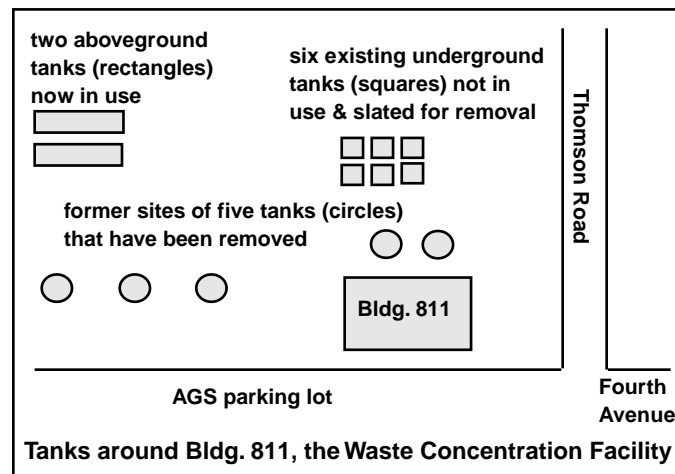
mentation, which BNL supplied.

According to the report, said Nealy, one issue that must be further evaluated is the disposition of six underground storage tanks located behind Bldg. 811, which are no longer in use (see drawing at right).

These tanks, which are made of stainless steel and encased in underground concrete vaults, last saw active use in the early 1980s. They then lay dormant, with some amount of liquid, until 1995, when the liquid was pumped out by personnel from the Safety & Environmental Protection Division.

Over the past two years, under the direction of the Lab's Office of Environmental Restoration (OER), 11 other tanks — five at Bldg. 811 and six from other locations around the Lab — that previously stored low-level, liquid radioactive waste have been dismantled and removed from the site. OER has prepared a scope of work and a cost estimate to

remove and dispose of the six underground tanks behind Bldg. 811, and field work is scheduled for fiscal year 1998.



## Van de Graaff

(cont'd.)

tioning more than one million volts (MV) below the promised capacity of 3.5 MV.

"It looked pretty dismal at first," Alburger remembered.

G.E. eventually gave up on fixing the Van de Graaff and sold it to the Lab at less than the agreed-upon cost.

Physicist Clarence Turner "came to the rescue," Alburger said, by discovering the design flaws and redesigning and rebuilding many of the

## BNL Lecture

(cont'd.)

other four increasingly massive quarks by creating them with high energy particle accelerators.

Protopopescu, who co-led the top-quark analysis group and led D0's offline data reconstruction and analysis efforts, developed data-analysis software for the 4,700-ton detector and analysis techniques for identifying this most massive of the quarks.

He will relate some of the events leading up to the two successful experiments and explain why success eluded the researchers for so long, even though this quark was the first to have had experiments designed specifically to detect it.

Protopopescu received his A.B. in physics from Princeton University and his Ph.D., also in physics, at the University of California, Berkeley, in 1972. He first came to BNL as a visiting assistant physicist in the Physics Department in September of that year and joined the Physics staff in July 1974 as an associate physicist. Before joining D0, he did experiments in hadron spectroscopy, working at the Multiparticle Spectrometer at the Alternating Gradient Synchrotron. He was granted tenure this year.

After the lecture, all are invited to join Protopopescu for discussion and refreshments. Those wishing to have dinner with the speaker at a restaurant off site should call Jackie Mooney, Ext. 3743. — Liz Seubert

major components.

In 1953, Alburger became Group Leader of the Research Van de Graaff, and he remained in this position for 25 years.

Studies with the Research Van de Graaff focused on attaining a basic understanding of atomic nuclei by looking at radioactivity, the decay schemes of nuclear energy levels and nuclear reactions.

"This period was the hey-day of low-energy physics," Alburger recalled. "There were dozens of visiting scientists, and we routinely ran a year-round average of ten 8-hour shifts per week, with many 24-hour-per-day experiments."

Several outstanding physicists worked on the Research Van de Graaff. By far the most frequent visitor and productive collaborator was Denys Wilkinson, Alburger recalled. "During his first week, he drew up a list of eight written pages of experiments he could do on the Van de Graaff. We never got to the list of experiments during his one-year stay. The initial calibration reaction led to other experiments. Through the years, I would periodically go back and check things off the list as they were done, whether here or elsewhere. Eventually we got pretty much through the whole list."

Jones cited the late BNL physicist

## Coming Up

**Sara Rockwell, Professor of Therapeutic Radiology at Yale University School of Medicine, will deliver a seminar sponsored jointly by Brookhaven Women in Science and the Medical Department, on Wednesday, June 26, at 1:30 p.m., in the large conference room of Medical, Bldg. 490. Rockwell will speak about "Hypoxia: An Early Event in Tumor Progression."**

Ernest Warburton as another of the most productive people to work on the machine. John Olness, who came to BNL in 1963, remembered Yale University's Allan Bromley, who was later science advisor to President George Bush. Bromley brought several Ph.D. students to do research on the Van de Graaff, including future Space Shuttle astronaut Joseph Allen.

Allen later presented the Laboratory with a copy of a paper including his research at Brookhaven that he carried with him while on the Space Shuttle Columbia. This paper is known as "the most widely circulated paper in the history of nuclear research" — having traveled more than two-million miles in space. The paper currently hangs in the lobby of building 901A.

Alburger thinks the Research Van de Graaff Group's high productivity and strong outside user program led to the easy approval of BNL's Tandem Van de Graaff in 1962.

The Tandem was completed in 1970, and, for the next 10 years, research continued on both machines. "Research with the small machine was being shifted to the Tandem," Alburger recalled. "People coming in wanted to work on the Tandem. Nobody seemed to be interested in working on the Research Van de Graaff anymore."

In 1984, when Jones transferred from Physics to the Department of Applied Science, the smaller Van de Graaff also changed departments. As a DAS machine, research on the Van de Graaff included trace-element measurements in biological organisms and materials-science measurements with proton microbeams.

Recently, however, Physics Department Chairman Peter Bond explained that choices had to be made about whether the machine was producing forefront research.

"For its time, it was certainly the forefront machine, and it did top-flight nuclear research," Bond explained. "But the time has come to move on to new facilities." — Andrea Widener



## 'Tis the Season for Ticks!

Nymph and adult deer ticks, actual size.



Bites from ticks can cause Lyme disease. Avoid tick-infested areas like the woods, and check yourself for ticks after leaving those areas.

Call the Occupational Medicine Clinic at Ext. 3670 or 3671 for more information; visitors can also look in their rooms for information sheets.

## 1996 Volleyball Champions



**Bikers'n Spikers** rode to the championship of League 1. Team members include: (back row, from left) Dan Mullaly, captain Jay Adams, Bill Kropp, Lars Furenlid, (front row, from left) Anette Meier, Karen Furenlid, Ron Webster, Ali Lopez and Jean Spears. Not pictured: Hong Li.

— Photos by Roger Stoutenburgh



**The Silver Bullets** met their mark to win the League 3 volleyball championship. Team members include: (from left) Luis Nieves, Claudia Jones and Kevin Cosgrove. Not pictured: captain Roy Barone, Kerry Bonti, Pat Carr, Fran Salpietro, Jennifer Schwarz and Dina Tullo.



**Spiked Jello** slid to win BERA's League 2 volleyball championship. Team members include: (from left) Jean Odin, Doug Gillette, Karen Furenlid, captain Izzy Garcia, Tirre Farmer, Denise Miesell and Anette Meier. Not pictured: David Bingham, Bob Meier and Linda Farmer.



**Pass, Set & Crush** did just that on their way to win the championship of the Volleyball League's open division. Team members include: (from left) John Usher, Ron Webster, Ralph Brown, captain Terry Sullivan and Mike Sagurton. Not pictured: Jim Griffin and Don Shea.

## Indian Dance Troupe Coming

BERA's Indo-American Association will sponsor a performance by world-class dancer Satya Narayan Charka and his troupe in Berkner Hall on Sunday, June 23, at 3 p.m. The performance will feature Kathak dance, a classical dance style developed some 2,000 years ago in northern India.

Charka, who has served as the cultural representative for the government of India, has performed throughout Europe, Japan, China, Australia and North America. In 1981, Charka founded the East-West School of Dance in Monroe, New York, and, as its current director, he continues to teach, choreograph and perform.

Tickets cost \$8 for adults and \$4 for children ages 5-18; children under 5 years old are free. With the purchase of two adult tickets, children's tickets are \$1 each. A 10 percent discount will be given for purchases of five or more adult tickets.



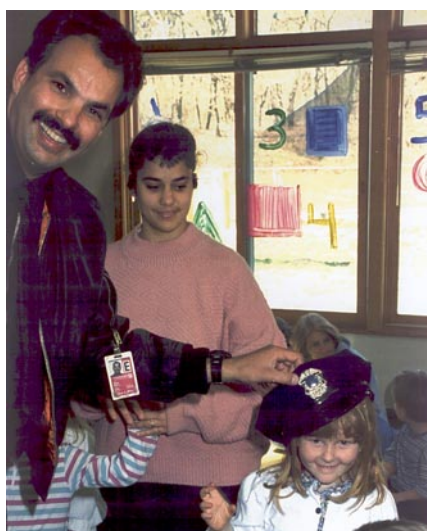
Satya Narayan Charka (left) and members of his dance troupe

Purchase advance tickets at the BERA Sales Office, from 9 a.m. to 1:30 p.m. on weekdays, or from Anand Saxena, Ext. 4844; Piyush Joshi, Ext. 3847; or Animesh Jain, Ext. 7329. Or buy them at the door on the afternoon of the performance.

## Winner Rides Away

John Toner, RHIC Project, was the winner of a mountain bicycle, in a drawing at the cafeteria on May 29 — part of the day's taste-testing of Nantucket Nectar beverages offered by Flik International, the Lab's food-service contractor. In June, Harry's Gourmet Snacks will be featured on a product-promotion day to be announced.

## BNL Police Don't Keep Safety Rules Under Their Hat!



**Learning about safety can be fun, when you get a friendly member of the Lab's Safeguards and Security Division (S&SD) to help you understand the rules. Earlier this spring, Captain Thomas Gilbert, Officer Kathleen McNaught and (above) Officer Mark Opisso represented S&SD in the third annual visit to BNL's Child Development Center (CDC). They talked to the children about general safety rules such as don't play with matches, don't talk to strangers, do walk in the crosswalk. They also showed the youngsters how some police equipment works — including how it feels to wear an officer's hat. Under the hat is Lindsay Giacalone. CDC staff member Sharon Rodriguez looks on.**

## At the P.O.: New Hours; Express Mail Rules

Effective Monday, June 17, the Upton Branch of the U.S. Postal Service will close its windows at 4:30 p.m., instead of 4:45 p.m.

In addition, Upton Postmaster Jeanine Fornsel reminds customers that the truck carrying Express Mail leaves at 4 p.m.; so, to guarantee that Express Mail can be processed in time to be dispatched on this truck, please bring it to the Upton Post Office no later than 3:45 p.m. For more information, call Fornsel, Ext. 2539.

## Are You Hospitable?

The Hospitality Committee is looking for one or more volunteers to coordinate its activities which are organized for the BNL guests temporarily residing in the apartment area on site. Such activities include weekly coffees, seasonal bus trips and holiday get-togethers. To volunteer, call Carol Gog, Ext. 1056.

## Speakers Bureau

The following speakers have given talks on behalf of the Laboratory:

- **Mary Wood**, OMC: Shoreham/Wading River High School, "Physical Effects of Smoking Cigarettes," March 1.
- **Nicole Bernholc**, SEP; **Kathleen McIntyre**, SEP; **Michael O'Brien**, SEP: Charles E. Waters PTA in Yaphank, "BNL Environmental Issues," March 20.
- **Mary Wood**, OMC: William Paca Jr. High School, "Physical Effects of Smoking Cigarettes," March 25.
- **Nichole Bernholc**, SEP; **Kathleen McIntyre**, SEP; **Michael O'Brien**, SEP: Whispering Pines/Colonial Woods Condo Association, "BNL Environmental Issues," March 30.
- **Conrad Foerster**, NSLS: Commack High School Career & Technology Day, "Careers in Engineering," April 1.
- **Robert Howe**, OER; **Jan Naidu**, SEP; **Kara Villamil**, DO: Bellport Rotary Club, "BNL Environmental Issues," April 9.
- **Dorry Tooker**, DO: Entrepreneurship Program at Suffolk Community College, "Technology Transfer," April 15.
- **Peter Cameron**, RHIC; **Louise Hanson**, DAS; **Erwin Rodger**, RHIC; **Donna-Ree Rodriguez**, CCD: Career Awareness Day at Mattituck High School, "Careers at BNL," April 24.
- **Veronica Evans**, CCD; **Louise Hanson**, DAS; **Terri Lacker**, Reac.: Career Day at Sayville Middle School, "Careers at BNL," April 25.
- **Pierrot Bichoneau**, Phys.; **John Larese**, Chem.: Rocky Point High School Career Awareness Day, "Careers at BNL," April 25.
- **Michael O'Brien**, SEP: Southampton College, "BNL Environmental Issues," May 2.
- **Keith Power**, RHIC: Bellport Middle School, "Earth & Moon: A Double Planetary System," May 6.

## The Answer: She Was in Jeopardy!

The question: Who is self-confessed *Jeopardy!* fanatic Anita Cohen, Public Affairs Office?

Cohen watches this "intellectual" game show every weekday, while pedaling her exercise bike and keeping track of her score with her hand-held *Jeopardy!* Challenger. In this mode, she says, "Most of the time, I beat the competition handily."

So when Cohen learned that she would be going to Los Angeles last September, she decided it was time to take the real *Jeopardy!* challenge and try out for the show. She had passed the written test several years earlier, in Atlantic City, but, she said, "I was so nervous then that I essentially failed the interview and practice *Jeopardy!* session. This time, however, I kept

reminding myself that I had nothing to lose. I seemed to do all right, but I left the studio with no promises — and no expectations."

So Cohen was shocked last January 4, when a *Jeopardy!* staffer called to invite her to come to L.A. — at her own expense — for a taping on February 7.

If all this happened in February, why are we telling the story now?

Because next week, on Thursday, June 20, Cohen is finally scheduled to appear on TV screens nationwide. "That's a rather difficult thing to hide," said Cohen, "so I thought I should share it with my fellow BNLers — in case they tune in."

Legalities prevent Cohen from discussing the show before the broadcast, but she does say, although she was really nervous, "I'm glad I did it because I'll never find myself regretting that I didn't take the *Jeopardy!* challenge."

## 50 YEARS AGO THIS WEEK

This series, which recounts the earliest days of Associated Universities, Inc. (AUI), and BNL, will run as appropriate throughout 1996 and 1997, the 50th anniversary years of AUI and BNL, respectively.

• **June 17 & 19, 1946** — The Planning Committee of the Initiatory University Group (IUG) meets to discuss progress toward incorporating as Associated Universities, Inc., and creating a new research laboratory in the Northeast.

• **June 1946** — Three months of meetings commence between the IUG's Committee on Contracts and representatives of the Manhattan District, the predecessor to the Atomic Energy Commission.

(To be continued on June 21.)

## BROOKHAVEN BULLETIN

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



## Ring Road Block

Bikers, joggers and others who like to take their daily exercise on Ring Road at the Relativistic Heavy Ion Collider should be aware that, for the next two months, equipment for the PHENIX experiment will be temporarily stored on the road. During that time, BNLers are requested to avoid that area if at all possible.

## New ID Badges

Beginning Wednesday, June 19, through October, the Safeguards & Security Division will issue new, DOE-standardized identification badges to all employees and guests.

While the badge exchange will take place weekdays in Room D, Berkner Hall, from 9 a.m. to 4:30 p.m., each department and division will be assigned dates during which their staff can get new badges.

Existing badges have had their expiration date extended through December 31, 1996, so they are valid until the new badges are issued. To receive a new badge, each employee and guest must present a completed Identification Card/Security Badge Application, BNL form F2868, which is available through the department and division administration.

Contractors working on site will continue receiving badges in the Brookhaven Center, Bldg. 30. BNL retirees will receive new badges at a future date, to be announced in the Bulletin.

For more information, contact Hank Raimondo, Ext. 7258, or e-mail [raimondo@bldg50.nov.ssd.bnl.gov](mailto:raimondo@bldg50.nov.ssd.bnl.gov).

When you give blood,  
You give another  
day at the beach,



Another hike in  
the woods,

Another night  
under the stars,



Another smile, another  
hug, another chance.  
Please give blood.

### BNL Blood Drive

10 a.m. to 3 p.m.  
Brookhaven Center  
June 19, 20 & 21

To sign up, call Susan Foster at Ext. 2888. First-time donors are eligible to win tickets to see *Crazy for You* at the Gateway Playhouse.

## Rifle & Pistol Club

The Rifle & Pistol Club meets on the second Wednesday of each month, so the next meeting is June 12, in Room 202, Bldg. 911B, at noon. For more information, call Otto Jacobi, club president, Ext. 3471.

## Arrivals & Departures

### Arrivals

Fritz Heistermann.....Physics  
Geraldine E. LeDuc.....NSLS  
Ralf Prigl.....AGS  
Vitaly E. Yakimenko.....NSLS

### Departures

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

Robina Ambrose.....NSLS  
Slobodan Jovanovic.....Physics  
Michael C. Martin.....Physics

## Atlantic City Trip

A few seats remain for the next BERA-sponsored, one-day trip to a hotel and casino on the Boardwalk in Atlantic City, on Saturday, July 13. The initial cost will be \$22, but the hotel-casino will give a coin return.

Buy tickets now at the BERA Sales Office, weekdays, 9 a.m. to 1:30 p.m. For more information, call Andrea Dehler, Ext. 3347, or M. Kay Dellimore, Ext. 2873.

## Amateur Radio Club To Host Field Day

The BERA Amateur Radio Club will meet at noon on Thursday, June 20, in Room C, Berkner Hall, to discuss the upcoming Field Day, which will be held at BNL's recreation fields on Saturday, June 22, from 2 p.m. until dusk, and Sunday, June 23, from dawn until 2 p.m.

Field Day is part of a national competition during which thousands of ham radio operators across the country will test their skills in emergency communication in the field, using portable and emergency power sources. At BNL, the Amateur Radio Club will set up several transmitter sites, using portable towers and antennas.

Employees, guests and licensed ham radio operators are invited to both the club meeting and Field Day. For more information, call Chris Neuberger, Ext. 4160, or Nick Franco, Ext. 5467.

## Classified Advertisements

### Placement Notices

The Laboratory's placement policy is to select the best-qualified candidate for an available position. Consideration is given to candidates 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, handicap or veteran status.

Each week, the Human Resources Division lists new placement notices. The purpose of these listings is, first, to give employees an opportunity to request consideration for themselves through Human Resources, and second, for general recruiting under 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, or call the JOBLINE, Ext. 7744 (344-7744), for a complete listing of all openings.

Current job openings can also be accessed via the BNL Home Page on the World Wide Web. Outside users should open "<http://www.bnl.gov/bnl.html>", then select "Scientific Personnel Office" for scientific staff openings or "Employment Opportunities" or "BNL Human Resources Division" for all other vacancies.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees.

DD 0069. SECRETARIAL POSITION - (term appointment) Requires an AAS degree in secretarial science or equivalent experience, excellent oral and written communication skills, and demonstrated organizational skills. Requirements include knowledge of WordPerfect, the IPAP travel system and JCARS. Will provide varied administrative support to the Department's Administrative Office. Biology Department.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

NS 0585. SCIENTIFIC ASSOCIATE POSITION - (term appointment) Requires a BSEE and experience in rf cavity analysis and measurements. Experience using spectrum and network analyzers for cavity measurements necessary; knowledge of electromagnetic finite-difference codes for analysis of rf cavities helpful. Responsibilities will include programming arbitrary waveform generators with Mathcad generated waveforms. RHIC Project.

DD 4010. ELECTRICIAN A - (temporary positions) Under minimum supervision and in accordance with the National Electrical Codes or as otherwise directed, lays out, constructs, installs, maintains, repairs and operates, electrical systems, equipment, controls and related devices. May be required to perform similar duties on other-than-maintenance-division equipment and facilities. Plant Engineering Division.