

Unclouding the Issue at the HFBR

The Bulletin is running the accompanying pictures of the High Flux Beam Reactor (HFBR) to dispel two widely circulated myths about this top-notch research facility.

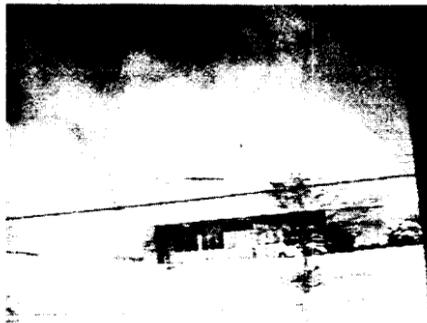
First, even though you may have read it in the Long Island Weekly section of the *The New York Times* on Sunday, January 28, the HFBR was **not** destroyed by a fire in March 1994. The caption writer was confused by the fact that, in March 1994, a fire occurred at the Tristan experiment on the experimental floor outside of the reactor. This led to the HFBR's closing for investigation until June 1994, when the reactor was again started up for experiments using its neutron beam. The Tristan experiment, however, was permanently discontinued after the fire.

At the time of the fire, a small amount of radiation, equivalent to 1 to 2 seconds of natural background radiation, was vented from the red-and-white reactor stack. During normal operations throughout 1995, invisible airborne releases from the HFBR — containing such radionuclides as tritium and cesium-137 — amounted to less than 0.001 millirem. To put

that in perspective, the U.S. Environmental Protection Agency's dose limit to the public via airborne radionuclides is 10 millirems annually.

Which brings us to the second myth: The very visible cloud of steam in the photos below and which surrounds the HFBR in the photo below at right is *not* the result of a reactor fire, as one might have surmised when first seeing this photo as part of WPIX channel 11's television news broadcast of January 10. Further, the steam does *not* come from the stack and is not "radioactive-laced," as alleged by Karl Grossman in his *Suffolk Closeup* column of January 25, 1996, which was printed in several East-End newspapers.

The cloud, which emanates from the cooling towers just west of the reactor, is from the ordinary water used in the cooling system that removes heat from the heavy water moderating the reactor. Steam rising from industrial cooling towers is a common sight throughout Long Island, and as for this particular cloud of steam, "It's ordinary tap water in gaseous form and does not mix with anything radioactive," said Reactor Division Head David Rorer. — Anita Cohen



A cloud of steam, which comes from the ordinary water used in the cooling system that removes heat from the heavy water moderating the High Flux Beam Reactor (HFBR), emanates from the reactor's cooling towers (photo left) on the west side of the HFBR, then drifts past the reactor's dome (photo right).

Community Members Meet at Lab

On Monday, January 29, over 20 community members met at the Lab to organize a community forum. A wide range of civic and environmental groups was represented at the evening meeting, and BNL and U.S. Department of Energy (DOE) staffers were present to answer questions.

The idea for a community forum arose during a recent public meeting, when community activists voiced a strong need for a mechanism by which residents can express to BNL their views and concerns about the Lab's activities and plans for the future. Said Sue Davis, BNL's Associate Director for Reactor, Safety & Security, "This is a way for the community to make us responsive to their concerns and issues, and to assure that we consider their needs in our plans."

Davis gave a brief welcome and assured those present that the community forum will not take the place of other avenues of communication, such as the regular public meetings held on environmental remediation. Then, the community group asked the BNL and DOE people to leave the room, so that they could discuss matters in private.

When everybody rejoined, the group announced its consensus: "We are not here to shut you down." Following that, procedural matters were worked out, a few questions were resolved,

and the community group settled on groundwater as its first priority issue. Later, a subgroup was also formed to focus in more detail on tritium emissions from the Lab.

The entire group agreed to meet again later this month. For that meeting, the Lab was asked to provide groundwater data for 1994 and 1995, from BNL's Office of Environmental Restoration, and environmental monitoring data from the 1994 Site Environmental Report, published by the Lab's Safety & Environmental Protection Division. — Mona S. Rowe

BNL, NRAO Nurture Westinghouse Projects

A Commack High School senior, Dominik Rosa, who volunteered in the laboratory of Deputy Chairman Paul Falkowski and Scientist Zbigniew Kolber, both of the Oceanographic & Atmospheric Sciences Division in the Department of Applied Science, was named one of 300 semi-finalists nationwide in the 1996 Westinghouse Science Talent Search competition: Rosa spent last summer and the early part of this school year at BNL researching "The Effects of Trifluoroacetic Acid on the Growth of Freshwater and Marine Algae."

Trifluoroacetic acid is the major

You've Got Questions, We've Got Answers — Live!

BNL Director Nicholas Samios will host the first series of noontime "You've Got Questions, We've Got Answers" sessions in Berkner Hall next week. The sessions are aimed at answering employees' questions about the BNL-related issues that have been receiving wide play in the press recently.

To accommodate as many BNLeers as possible, the first series will be held from noon to 1 p.m. over two days: Monday, February 5, and Tuesday, February 6.

Employees are asked to attend only one session to make sure there is enough room over the two-day period for all who wish to participate. Employees are also reminded that their attendance beyond their normal lunch period is subject to supervisory concurrence.

Joining Samios for these informal question-and-answer sessions will be: Bob Casey, Head of the Safety & Environmental Protection Division; Sue Davis, Associate Director for Reactor, Safety & Security; Kathy Geiger, Community Relations Coordinator, Office of Environmental Restoration (OER); Bill Gunther, OER Manager; and Mona Rowe, Supervisor of External Communications in the Public Affairs Office.

Three Teams Investigate Allegations About Brookhaven

As a result of all the public and media attention now being paid to Brookhaven, three teams of investigators have been invited by different parties to look into allegations regarding mishandling of radioactive waste and drinking-water contamination:

- **Senate Governmental Affairs Committee and House Governmental Reform and Oversight Committee** — Invited by, respectively, U.S. Senator Alfonse D'Amato and U.S. Congressman Michael Forbes, these committees are to conduct complete and thorough investigations of BNL's environmental, safety and health policies, programs and procedures, looking for possible violations.

- **Office of the Inspector General, U.S. Department of Energy (DOE)** — In a letter dated January 18, D'Amato and Forbes requested John Layton, DOE's Inspector General (IG), to "undertake an immediate and thorough investigation into possible groundwater contamination emanating from Brookhaven National Laboratory into the communities surrounding the Lab." As a result, an investigator from the IG's office came to the Lab on January 31 and February 1, to determine the scope of the inquiry.

- **Laboratory Employee Concerns Committee** — Established on January 16 by BNL's Deputy Director Martin Blume, the committee, chaired by Senior Scientist John Baum, Department of Advanced Technology, was charged with: reviewing the concerns expressed in two Employee Concerns Reporting Forms, making recommen-

dations on any corrective actions deemed advisable, and reporting its findings within 20 working days. The committee included Raymond Karol, the Safety Evaluation Section Leader in the Reactor Division, and a health-physics consultant selected by Associated Universities, Inc. They summarized their findings on the employee concerns in a report to Blume on Tuesday, January 30, which the Deputy Director is now reviewing.

"There are no conditions at the Lab known to pose an immediate threat to BNL employees or the general public, and our waste-handling and environmental cleanup have always been open processes," states Sue Davis, the Lab's Associate Director for Reactor, Safety & Security. "We welcome anyone to come in to see how we conduct our operations and will certainly address any and all concerns or findings brought to our attention by any investigation." — Marsha Belford

Coming Up

The **14th Annual Gospel Extravaganza** will be held tomorrow night, Saturday, February 3, at 7 p.m., in Berkner Hall. Sponsored by the Afro-American Culture Club to celebrate Black History Month, the event will feature the nationally recognized choir James Hall and Worship and Praise of Brooklyn. Four other choirs, including the BNL Gospel Choir, are also on the program.

Tickets cost \$12 for adults and \$5 for children under 12. Buy them today at the BERA Sales Office, 9 a.m. to 1:30 p.m.

The next **BERA Concert**, to feature promising young musicians from the State University of New York at Stony Brook, will be held on Tuesday, February 13, at 8 p.m. in Berkner Hall. The suggested donation is \$6 per person.

Physicist John Tranquada, Physics Department, will give the **313th Brookhaven Lecture** on Wednesday, February 14. His talk on "Superconductors of a Different Stripe" will begin at 4 p.m. in Berkner Hall.

(continued on page 2)

BWIS Meeting Effective Resumés

Nancy Sobrito, a senior human resources representative in the Human Resources Division, will discuss "Effective Resumé Preparation" at the next meeting of Brookhaven Women in Science (BWIS), on Thursday, February 15, at noon, in Room C, Berkner Hall.

All are invited; please bring your lunch.

BERA Nominating Committee Named

The BERA Executive Board has selected the following people to serve on the 1996 BERA Nominating Committee. All are active BERA participants. The committee is charged with nominating a slate of four candidates to run for the 1996 BERA Board elections, scheduled for the last week in March.

Name	Dept.	Bldg.	Ext.
Jay Adams	DAT	830	4994
John Addressi	AGS	911A	7268
Lou Addressi	AGS	911B	4672
Jim Alduino	AGS	911B	4696
John Benante	AGS	919A	4498
Louis Evers	Reac.	750	4417
Michelle Haller	DCP	355	7908
Susan Norton	RHIC	817	3492
Donna Vestal	Reac.	750	4430
Kara Villamil	DO	134	5658
Grace Webster	DAT	703M	3227

Any employee who wishes to propose a nominee may contact one of the Nominating Committee members before Friday, February 16. But please be certain that the person being proposed will agree to accept the nomination if selected by the committee.

In Memoriam

The following retirees passed away recently:

Charles Tomesch, who retired from the Instrumentation Division on March 31, 1975, after almost 27 years at the Lab, died on December 30, at the age of 82. He had started in BNL's General Shop A in March 1948, as a machinist. He transferred to the Instrumentation & Health Physics Department in January 1960 as a staff shop technical associate. The department became the Instrumentation Division in January 1972, and Tomesch retired three years later as a senior technical specialist.

James G. Walseman, whose almost 21 years with BNL were all spent in the Plant Engineering Division, died on January 15. He was 67 years old. He had joined the Lab on August 22, 1966, as a janitor, and retired on July 20, 1987, as a rigger.

Thomas Guida, who retired from the Supply & Materiel Division (SMD) on May 18, 1973, died on January 19 at the age of 74. He had started in the Plant Maintenance Division on January 17, 1966, but transferred to SMD in April 1967, as a warehouseman. At the time of his retirement, he was a stores clerk.

Edmund E. O'Kula, a heavy equipment mechanic operator in the Plant Engineering Division throughout his 15 years at BNL, died on January 19. He was 73 years old. He came to the Lab on September 9, 1968, and retired on April 27, 1984.

Big Romantic Bash Tickets Almost Sold Out



*Dance and dine your Valentine,
The music's soft, the food's so fine.
Enjoy an evening so divine,
Lips will quiver, "Please be mine!"*



When the Bulletin went to press, there were only ten tickets remaining to the Heart to Heart Valentine's Dinner-Band Bash sponsored by the BNL Ballroom, Latin & Swing Dance Club on Friday, February 9. To see if you can get your tickets better late than never, or to get on a waiting list in case there are any returned tickets, call Ron Ondrovic, Ext. 4553.

Equipment Demo

MTI will demonstrate its RAID technology-storage products on Wednesday, February 7, at 10 a.m. in the second-floor seminar room, Bldg. 515. All are invited. For more information, call Paul Kessler, Ext. 4156.

Hospitality Committee

To speak about fire and emergency procedures at the Lab, BNL's Fire Chief James Roesler, Fire/Rescue Group of the Safety & Environmental Protection Division, will be the guest speaker at the next Hospitality Committee get-together, on Tuesday, February 6, at 10 a.m., in the lounge of the apartment area. Spouses of Laboratory employees and their guests are welcome. Bring the children, and also a toy or two. Coffee and tea will be provided.

1995: Warm, Dry, Little Snow



The Blizzard of '96, which raged over the Northeast on January 7-8, dumped 48.3 centimeters (19 inches) of snow at BNL — more than fell at the Lab throughout the entire winter of 1994-95.

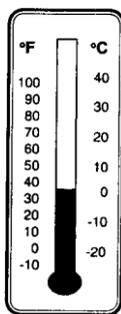
The weather of 1995 was warmer and drier than most years, and the winter of 1994-95 was marked by only 16.5 centimeters (cm) (6.5 inches) of snow at BNL. In contrast, the Blizzard of '96 dumped 48.3 cm (19 inches) of snow at the Laboratory, bringing the snowfall for the 1995-96 season to 108 cm (42.5 inches) as of January 16. The Lab has kept meteorological records since 1949.

"During the 1994-95 snow season, we had the second least amount of snowfall, with 1972-73 having the least — 14.9 cm [5.7 inches]," said BNL meteorologist Victor Cassella. "The snowiest season ever at Brookhaven was 1966-67, with a total of 190.2 cm [74.9 inches]."

Precipitation in 1995 was 21.8 cm (8.6 inches) below average, with a total of 100 cm (39.4 inches) recorded for the entire year. A six-month period from March through August '95 was the driest on record with only 31.2 cm (12.3 inches) of precipitation. March and August were also the two

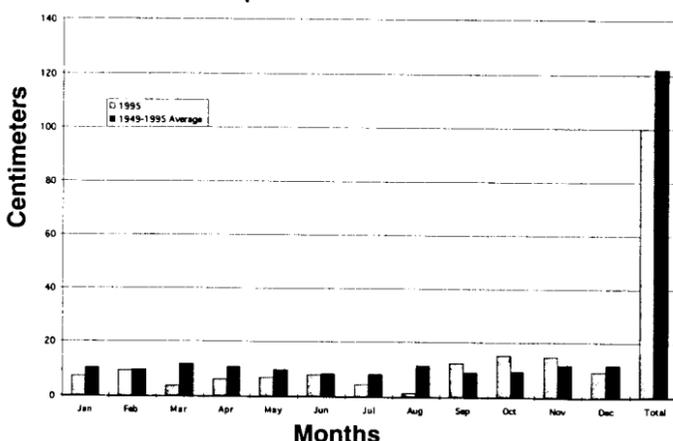
driest months on record, with 3.8 cm (1.5 inches) and 1.4 cm (0.54 inches) of rainfall, respectively.

While the yearly average temperature for 1995 was slightly above normal, 11 new high and two new low temperatures were set during the year: The thermometer hit four new highs for January: 12.5°C on the 7th, and on three consecutive days — the 13th, 14th and 15th — the respective highs were 15.3°C, 18.3°C and 18.6°C. Other new highs were: 33.9°C on June 20, 32.5°C on August 16, 34.4°C on August 21, 32.2°C on August 24, 28.3°C on October 6, 26.9°C on October 13 and a balmy 18.9°C on November 28. The new lows were set on June 28 and 29, when the thermometer hit 6.1°C and 5°C, respectively. (See thermometer for conversion to Fahrenheit.) —Diane Greenberg



A drier year than average, 1995 had a total of just 100 centimeters of precipitation. March through August was the driest six-month period ever recorded at BNL, with a total rainfall of 31.2 cm.

Precipitation in Centimeters



CPR Courses Available

The Health Promotion Program of the Occupational Medicine Division is offering two on-site cardiopulmonary resuscitation (CPR) courses: one for resuscitating adults, on Monday, February 26, 6-9 p.m., which costs \$22.50 per person; the other for resuscitating infants and children, on Tuesday and Thursday, February 27 & 29, 6-9 p.m., which costs \$35 per person.

Each class is open to BNL employees and guests, and their family members. For more information and to register, contact Mary Wood, Bldg. 490, Ext. 5923.

A Look at Windows 95

The Computing & Communications Division (CCD) will moderate a seminar on "The Pros and Cons of Windows 95" on Tuesday, February 6, from 10 to 11:30 a.m., in the CCD seminar room, Bldg. 515. Following a demonstration of Windows 95, a discussion will detail its usability at BNL. For more information, call Donna-Ree Rodriguez, Ext. 7261.

PC Training

A few seats are still available in the February PC training classes offered by the Computing & Communications Division, as follows:

Date	Topic
2/12	Microsoft PowerPoint, introduction
2/21	Microsoft PowerPoint, introduction
2/14	WordPerfect/Windows, beginner
2/26	Microsoft Word, beginner
2/27	DOS, introduction
2/28	Microsoft Excel, beginner

Registrations are now being accepted for March classes, which will include sessions on Microsoft Excel, intermediate; Harvard Graphics for Windows, beginner; WordPerfect for Windows, intermediate; and Microsoft Access, intermediate.

For registration information, call Pam Mansfield, Ext. 7286, or e-mail pam1@bnl.gov.

Atlantic City Trip

BERA will resume its one-day bus trips to Atlantic City on Saturday, April 13, with a visit to Trump Castle Hotel and Casino on the marina. The initial cost will be \$22, but the hotel-casino will give a \$15 coin return and a \$5 deferred voucher.

The bus will leave the Brookhaven Center at 8 a.m., with an extra pickup at LIE Exit 63, if requested. After a seven-hour stay in Atlantic City, return will be about 11 p.m.

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

ANS Meeting

Hans Ludewig, Department of Advanced Technology, will speak on "Weapons Grade Plutonium: Vulnerability Assessment and Possible Disposition" at the next Long Island Section American Nuclear Society (LIANS) meeting, on Wednesday, February 7, at the Radisson Hotel, Islandia.

This talk will be based on the speaker's experiences while serving on the Plutonium Vulnerability Assessment Team of the U.S. Department of Energy, and results obtained from studies of systems used to dispose of weapons-grade plutonium.

Following cocktails at 6 p.m. and dinner at 7 p.m., the speaker will be introduced by LIANS vice-president Frank Patti, Reactor Division.

All are welcome. To make reservations, call Vera Meier, Ext. 7702, by Monday, February 5.

BROOKHAVEN BULLETIN

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'Physics Phil' Finds Familiar Foliage: Habitat Spared in MRI Construction

When BNL's own groundhog, dubbed "Physics Phil," wakes today to make his wintry prognostication, his shadow may fall on the Lab's brand-new MRI Center, finished during hibernation season and housing a 4-tesla magnetic resonance imaging



Phil's footprints?

(MRI) machine for research. In fact, those may be his footprints in the center's concrete sidewalk.

But, despite all the construction, a nearby thicket where Phil often lives still stands. Contractor M.H. Kane Construction spared the habitat at BNL's request, said Project Coordinator Greg Flett, Plant Engineering Division. There was just enough room to sandwich the center and its perimeter fence between Cornell Avenue and Phil's stomping grounds, Flett explained, with only minor inconvenience to the contractor. And, if

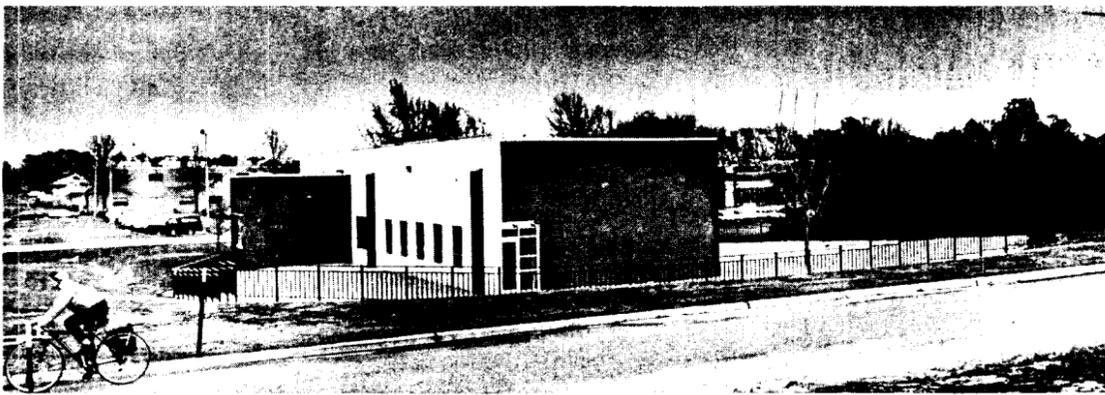
you're worried that Phil or anyone else might be exposed to high magnetic fields from the powerful magnet inside the center, rest assured that the fields outside the perimeter fence are so low they barely register on instruments.

— Kara Villamil

At right: Probably "Physics Phil," in his youth.



Photos on these pages by Roger Stoutenburgh



Phil's habitat behind the new MRI Center was undisturbed during construction.

Addressing Affirmative Action

Amid the current public debate over the continued national necessity for affirmative action, the Long Island Industry Liaison Group (LIILG) held one of its bimonthly meetings at BNL for the first time in October, at the invitation of the group's president, Jeffrey Taylor (second from left), a senior diversity coordinator in BNL's Diversity Office. The group's vice president is Hanita Alexander (left) of Underwriters Laboratories.

Part of a national organization, the LIILG is made up of representatives from 30 major companies and institutions in Nassau and Suffolk Counties. They meet to discuss issues regarding equal employment opportunity, affirmative action and workforce diversity.

At this meeting, the LIILG was updated on the federal and regional perspectives on the affirmative action debate by two members of the Office of Federal Contract Compliance Program (OFCCP), which is a part of the U.S. Department of Labor's Employment Standards Administration.

Robert Gerlerter (right), OFCCP Deputy Regional Director for Region II, which includes New York, reviewed President Clinton's stand on affirmative action. He also outlined the initiatives and activities of the OFCCP's ten regional offices, such as a study of the impact of corporate downsizing on women and minorities; and he discussed how OFCCP is simplifying its paperwork and coming up with improved ways of measuring its accomplishments in developing equal opportunities for members of underrepresented groups.

Beverle Lessley (seated), Region II's District Director for Nassau and Suffolk, informed the group about OFCCP's efforts to explore same-sex discrimination and reverse discrimination of white men.

— Marsha Belford



Telephone Update

Phones to Change Week of 2/5

In the following order, the remaining buildings served by node site 2 in Bldg. 703 will be switched to the new Siemens Rolm Communications (SRC), Inc., telephone system today and during the week of Monday, February 5, the ninth and final week of the changeover. Those buildings to receive digital service are listed in bold; those continuing with analog service are in plain text:

Date	Bldg.
Fri., Feb. 2	473, 475 , 624, 630, 641, 680, 488
Mon., Feb. 5	464 , 477 , 478, 479, 463
Tue., Feb. 6	920, 932, 942, 928, 929, 913A, 913T
Wed., Feb. 7	907, 908, 909, NSLS trailers

Phone-System Training

To learn how to use the new SRC telephones, a training video is available: Borrow it from the Research Library, Bldg. 477, by calling the Circulation Desk, Ext. 3483; or purchase a copy by calling BNL Video, Ext. 3680.

Westinghouse (cont'd.)

environment, particularly in marine and fresh water, is of unknown but important consequence.

For her research done at BNL's sister laboratory, the **National Radio Astronomy Observatory** (NRAO), which is located in Green Bank, West Virginia, and also operated by Associated Universities, Inc., **Naomi Bates** was named one of the 40 finalists in this year's Westinghouse Science Talent Search. As a finalist, Bates will go to Washington, D.C., in March to compete for one of the top ten spots and a share of the over \$200,000 in scholarships.

A senior at Franklin High School in Franklin, West Virginia, Bates used NRAO's 40-foot radio telescope to measure radio waves emitted from the Milky Way galaxy to locate clouds of neutral hydrogen and calculate the galaxy's rotation curve.

By mapping the position of hydrogen clouds, her data identify hydrogen-dense, arm-like areas that support the theory of a spiral structure to the galaxy.

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.

• **February 8, 1946** — Representing the 19 institutions interested in establishing a research laboratory near New York City, four scientists — from Columbia University, Dean George Pegram and I.I. Rabi, Nobel laureate and Executive Officer of the Physics Department, and from Princeton University, Henry Smyth, Chairman of the Physics Department, and Hugh Taylor, Dean of the Graduate School and Professor of Chemistry — confer with Col. Kenneth Nichols, representative of Leslie Groves, Commanding General of the Manhattan District.

At the meeting, according to Norman Ramsey's* BNL Lecture number 55 on "The Early History of Associated Universities and Brookhaven National Laboratory," "The representatives of the sponsoring institutions in the New York area were told that the Manhattan District was definitely interested in the proposals and was willing to hear more specific proposals. However, it was also clearly stated that the Manhattan District could not see its way clear to establishing more than one new laboratory when the Manhattan District was soon to be succeeded by an Atomic Energy Commission [AEC]."

This was an issue because, said Ramsey, "word of the action of the New York group had reached the Cambridge, Massachu-

setts area and the scientists at MIT [Massachusetts Institute of Technology] and Harvard urged General Groves also to establish a nuclear sciences regional laboratory in the vicinity of Cambridge."

Ramsey explained, "The representatives were therefore told that if the New York group and the Cambridge group could get together and unanimously agree upon a single proposal there would probably be support by the Manhattan District. However, if this could not be done the representatives were clearly told there would be no point in bothering General Groves and the Manhattan District further . . . It was also pointed out . . . that it was unlikely that a new [AEC] when it was established would be able to see its way clear to founding a new laboratory for some time. It was obvious that Cambridge and the New York groups must agree or neither group could have its desired facility.

*Norman Ramsey, then a physicist at Columbia University, was one of the founding fathers of AUI/BNL in 1946. In 1947, he began his long association with Harvard University, where he is currently Higgins Professor of Physics. Ramsey won the Nobel Prize in Physics in 1989, and served on the AUI Board as a trustee from 1951-54.

(To be continued February 16.)

Drive Defensively

The Safety & Environmental Protection Division is again offering defensive-driving classes once a month, beginning in February and continuing through December. The course is approved by the National Safety Council, so, for three years after completing it, drivers may qualify for lower auto-insurance rates for liability, basic personal injury protection and collision.

Pick a Teacher

The DOE Teacher Research Associates (TRAC) program allows outstanding science, mathematics and technology secondary school teachers to participate in BNL's research programs for eight weeks during the summer at no cost to the sponsoring department. The 1996 TRAC program is tentatively scheduled to begin on Monday, July 1, and end on Friday, August 23.

Applications from candidates may be reviewed at the Science Education Center, Bldg. 438, through Friday, February 9. For more information, call Nina Leonhardt, Ext. 5963.

The six-hour course will be given on site: weekdays, 6-9 p.m. over two evenings, and Saturdays, 9 a.m.-3:30 p.m. Open to BNL employees and guests, and their family members, the course costs \$19.95 per person.

To register, send your name, building number and extension to Ronnie Zambelli, Bldg. 129A.

Help the Science Bowl

Teams from 32 Nassau and Suffolk County High Schools will converge at BNL on Saturday, March 16, for the regional competition in the National Science Bowl, sponsored by the U.S. Department of Energy.

The Science Bowl is a fast-paced, oral competition between two teams of four students each, who are asked questions in the areas of science, math and computing in a format similar to "Brainstormers" or "College Bowl."

BNL volunteers are needed to serve as officials — judges, moderators and timekeepers. If interested in volunteering, contact Louise Hanson, Ext. 5849 or 7709, or e-mail hanson2@bnl.gov for further information.

Softball

All existing teams must send their representatives to the BERA Softball meeting on Wednesday, February 7, at noon in Room B, Berkner Hall. Call Joe D'Ambra, Ext. 3764, for more information.

Arrivals & Departures

Arrivals

Jonathan G. Sailer.....Saf. & Env. Prot. **Departures**

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

Michael V. Maneri.....Plant Eng. **Carissima M. Vitus**.....App. Science

Volleyball

Standings as of January 26

Open League		League I	
Monday Maulers	31-8	Bikers 'n Spikers	31-11
Pass, Set & Crush	31-8	Rude Dogs	29-13
Spikers	16-23	Scared Hitless	23-19
Far Side	15-24	No Names	19-26
Bud Hitters	6-36	Underdogs	6-39
League II		League III	
Spiked Jello	28-5	Silver Bullets	25-5
Safe Sets	25-8	Joy of Sets	19-11
Fossils	19-14	Just 4 Fun	19-11
Monday Nite Live!	19-14	Upton Ups	18-12
Jolly Vollies	15-18	Harlem Knights	15-15
Nuts & Bolts	14-19	High Volley'em	15-15
Volley Folly	9-24	DO-DAT	10-17
Night Court	3-30	New Comers	7-23
		OER	4-23

Bowling

Purple & White League

R. Eggert 253/222/624 scratch series, M. Meier 234/187/186/607 scratch, A. Warkentien 215/183, M. Guacci 212/180, B. Guiliano 207, K. Batchelor 203, N. Fewell 202, R. Wiseman 197, R. Picinich 191, R. Larsen 189/181/180, D. Meier 188, M. G. Meier 187, D. Botts 186, N. Besemer 184, D. King 183, M. DiMaiuta 181, J. McCarthy 180, M. Addressi 178, R. Almsy converted the 5/9/10 split, D. Fisher the 4/5/7 split, S. Frei 6/7/10 split.

Red & Green League

R. Eggert 247/237/201/685 scratch series, R. Mulderig 227/226/209/662 scratch, R. Raynis 225/203/201/649 scratch, R. Larsen 263/226/649 series, J. Griffin 247/234/623 scratch, E. Sperry IV 216/214/616 scratch, K. Riker 213/200/608 scratch, E. Sperry III 205/202, K. Asselta 204/203, B. Guiliano 203/201, A. Warkentien 225, N. Besemer 220, H. Arnesen 214/600 scratch, J. Goode 206, W. Powell 205, K. Koebel 201, J. Cuccia 209, B. Geib 201.

Basketball

Games on January 18

Magic 65		Bulldogs 53	
Terry Buck	20	Jerry Gaeta	12
Troy Mayo	14	Tracey Fontaine	9
Raymond Jackson	11	Doug Aichroth	8
Mitch Williams	6	Chuck Bennett	7
Pat Browne	4	Simon Worth	6
Ed Gregory	4	Brian Hobson	5
Robert Singleton	4	Pete Ratzke	4
Fred Molone	2	Jeremy Middleton	2
<i>Three-point shots:</i> Gaeta (4), Williams (2), Bennett, Hobson			
Mustangs 68		Scram 65	
Wayne Cummings	26	Al Boerner	23
Greg Mack	11	Jim Rank	15
Jim Desmond	9	Tim Powers	8
Jame Sims	9	Gerry Shepherd	8
Kiley Reynolds	8	Joe Barkwill	5
Jerry Cook	3	John Skonieczny	4
Hal Van Deroef	2	Alan Jones	2
<i>Three-point shots:</i> Rank (3), Boerner (2), Cummings, Sims.			

Games on January 25

Scram 57		Bulldogs 48	
Al Boerner	18	Doug Aichroth	10
Gerry Shepherd	11	Brian Hobson	8
Tim Powers	10	Jeremy Middleton	7
John Duggan	7	Pete Ratzke	7
Joe Barkwill	6	Simon Worth	6
Jim Rank	5	Louis Lalor	4
		Chuck Bennett	3
		Jerry Gaeta	2
		Tracey Fontaine	1
<i>Three-point shots:</i> Boerner (3), Hobson (2), Aichroth, Bennett, Powers, Shepherd			
Magic 95		Storm Troopers 55	
Terry Buck	23	Hector Machado	15
Troy Mayo	22	Robert Prophet	10
Raymond Jackson	20	George McKillop	7
Mitch Williams	11	Frank Nocera	6
Ed Gregory	10	Ron Simpson	6
Al Langhorn	3	Chris Ingoglia	3
Tom Dilgen	2	John Jones	3
Fred Molone	2	Charley Wells	3
Robert Singleton	2	Mike Cox	2
<i>Three-point shots:</i> Machado (3), Prophet (2), Ingoglia, Jackson, Simpson, Wells, Williams.			

Note to Employees:

Attendance at lectures, meetings and other special programs held during normal working hours is subject to supervisory concurrence.

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.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

DD 0578. TECHNICAL POSITION - (term appointment) - Requires an AAS in mechanical technology or equivalent and extensive experience in assembly of complex systems. Must be able to work from verbal direction and/or blueprints, and be able to sketch parts for fabrication in shops. AutoCAD experience a plus. Duties will include assembly of prototype rf components, and working with vacuum and water systems. RHIC Project.

DD 3846. TECHNICAL POSITION - (term appointment) - Requires an AAS or equivalent and experience in the operation and maintenance of equipment used for semiconductor fabrication. Demonstrated expertise in the use of a Karl Suss MJB3 UV exposure tool and an AMRAY 1000A scanning electron microscope or comparable equipment is essential. Responsibilities will include fabricating and testing of prototype micro-accelerometer. Instrumentation Division.

NS 4505. DATABASE DEVELOPMENT ANALYST - Requires a BS in computer science, MS preferred, and extensive hands-on experience in logical and physical design and implementation of relational databases. Experience in client-server and/or distributed-data architectures and data warehousing, and a working knowledge of Oracle and/or Sybase are necessary. Knowledge of object-oriented concepts and methodologies is a plus. Financial Services Division.

Motor Vehicles & Supplies

95 SUNLINE SOLARIS TRAVEL TRAILER - 30', sleeps 8, used only 4 mos., excel. cond., asking \$15,000. Mark, Ext. 4898 or 369-0793.

91 MAZDA MX-6 - 5-spd., ac. removable am/fm/CD stereo, alarm, 58k mi., excel. cond. in & out. Ricky, Ext. 6183 or 878-9021.

90 HONDA CIVIC Si - 5-spd. h/b, 74k mi., sunroof, white/black, 1,500cc, 4-cyl., 16-valve, EFI, clean, all records available. John, Ext. 5195.

89 PROBE - all options, well maint. w/records, excel. cond., \$4,400 neg. 472-1627.

89 VOLVO 240 DL - sedan, excel. cond., \$9,000 neg. 728-9337 eves.

88 PONTIAC GRAN PRIX - blue, 2-dr., all power, V-6, am/fm cass., 81k mi., excel. cond. Willie, Ext. 5377 or Ed, 821-2714.

87 MITSUBISHI TREDIA - 5-spd., black, tinted windows, am/fm cass., 105k orig. mi., velour int., very clean, asking \$1,800. Donna, Ext. 2380.

86 MERCURY MARQUIS - loaded, new '91 motor, excel. cond., \$3,000 neg. Lenny, Ext. 4421.

85 VOLVO 240 DL WAGON - good cond., \$3,000 neg. 728-9337 eves.

85 NISSAN 4x4 PICKUP - many extras, excel. cond., must sell. Don, Ext. 5329 or 878-2215.

85 HARLEY DAVIDSON ELECTRA GLIDE - 9k mi., belt drive, first yr. evolution motor, all stock, mint cond., \$13,000. John, 286-4773.

84 PONTIAC FIREBIRD TRANS AM - black w/gold trim, 5.0-liter engine, V-8, 5-spd., \$1,700 neg. Rich, Ext. 5893 or 744-4816.

76 VOLVO 242DL - 4-spd., new battery & front struts, good running cond., \$900 obo. Steve, Ext. 3018 or 369-5181.

76 CADILLAC SEVILLE - fully loaded, 77k mi., needs brakes, gar., excel. running cond., mint in/out, \$4,900. Jim, 767-5108 or 759-3926 after 6 p.m.

66 FORD MUSTANG - V-6, a/t, 78k mi., am/fm cass., very clean in/out, v.g. cond., \$5,000. 325-0657.

65 FORD FAIRLANE - 4-dr., 6-cyl., a/t, new rear springs, shocks & muffler, good cond. 472-4559.

PARTS - '79 Pontiac Grand Prix plus manual, make offer. Dave, Ext. 5010.

TIRES - 4, white-wall radials, Cooper Liferliner Classic, P215/70R15, \$40. 363-6940 after 5 p.m.

Furnishings & Appliances

BEDROOM SET - dark maple 2 dressers, 2 end tables, lamps, headboard, footboard, mirror, \$300. Lloyd, Ext. 5225.

BUNK BEDS - w/2 new mattresses, \$275 takes all. Ed, Ext. 4080.

CHAIRS - Ethan Allen, 1 yr. old., Windsor-style, 4-side solid cherry, \$100 ea. Eric, Ext. 5875.

ELECTRIC RANGE - Jenn-Air, includes all attachments, i.e. grill, griddle, rotisserie, shish-kabob, \$300. 928-4863.

ENTERTAINMENT CENTER - black w/glass doors & adjustable shelves, new, \$90. Bruce, Ext. 2188.

FREEZER - G.E., 18 cu. ft., upright w/built-in lock, excel. neg. Ext. 5740 or 744-8386.

KITCHEN SET - contemp., octagon, 48"x48", glass table top w/brass base; 4 tan tweed swivel chairs w/ brass trim, \$195. 467-8185.

KITCHEN TABLE - Formica w/4 chairs, good cond., \$50. Phil, Ext. 3084.

RECLINER - Lazy Boy, rocking, mauve, \$175; sofa bed, queen, light blue, w/matching love seat, \$350 both, or will sell separately. Norman, 399-1125.

SOFA BED - double, like new, \$350. 744-3744.

WALL UNIT - 3-section walnut finish, all lighted w/ drawers & lower storage, one glass door, orig. \$1,200, ask. \$350. 281-0360 after 6 p.m. Tirre, Ext. 3288.

WASHER/DRYER - stackable, gas, excel. cond., asking \$385. Henry, Ext. 5725, Pager 0778 or 727-7227.

WATER BED - super single deluxe, v.g. cond., \$50; end tables, oak parquet, parsons, \$15 ea. or \$25/2. Sue, Ext. 7235 or 399-7997 after 5 p.m.

AIR CONDITIONER - 15,000 Btu, good cond., works well, ask. \$125. Charles, Ext. 5214 or 321-5747 eves.

BEDROOM SET - black lacquer, dresser w/mirror, chest, 2 night stands, headboard, 2 yr. old, orig. \$1,850, asking \$700. Mac, Ext. 4558 or 924-2348.

CHEST OF DRAWERS - w/mirror, \$30. Ext. 5350 or 929-3867.

DESK - L-shaped office-type, needs refinishing, \$175. Walter, Ext. 4958 or 821-9451.

DESK - large, heavy-duty, oak w/Formica top, file-size drawer, good for computer, \$150 obo. Bob, Ext. 5689.

DINING TABLE - 4 chairs, hutch, table insert, Ethan Allen, \$300; couch, end tables, coffee tables, \$100. Lloyd, Ext. 5225.

DRESSER - antique, oak, small, 3-drawers, half-stripped, \$75. Sue, Ext. 7235 or 399-7997 after 5 p.m.

FURNITURE - 1/r set, lamps, tables, 1 large sofa, 1 small, 1 bench, like leather, black, other items, moving. Denise, Ext. 2776.

FURNITURE - 1/r, d/r, TVs, VCRs, beds, rolling bar, dishes, silverware, vacuum cleaner, more, make offer. T.J., 744-3308.

HEADBOARD - ship's wheel, twin, walnut, excel., orig. \$270, now \$75; water bed frame, king, etched glass insert, \$50; kerosene heater, \$25. 395-3484.

HOSPITAL BED - worth \$3,000, selling for \$1,500. Sue, Ext. 4461.

MOVING SALE - contents of house. Afra, 821-6856.

RANGE - Jenn Aire, electric, w/all attachments, i.e., grill, griddle, rotiss. kit, shish-kebab kit, \$300. 928-4863.

REFRIGERATOR - G.E., 14 cu. ft., 4 yrs. old, used as spare, almond. 689-9234.

SOFA BED - queen-size Castro, royal blue, like new w/2 matching chairs, asking \$650. 924-3049.

STOVE - Weibilt, elec., apt.-size, 24"x24", 4 burners w/oven, 11kW, good, \$50. 363-6940 after 5 p.m.

Sports, Hobbies & Pets

BASKETBALL SYSTEM - portable w/acrylic backboard, backboard adjusts from 6' to 10', orig. \$230, now \$130. Bette, Ext. 4117 or 589-8331.

BICYCLE HELMET - new, adult-size, \$15. Joe, Ext. 2898.

EXERCISE STATION - Gravity Edge multi-station, like new, asking \$185. Charles, Ext. 5214 or 321-5747.

FISH TANK - 30-gal., \$20. Ext. 5350 or 929-3867.

MOUNTAIN BIKES - G.2.1 Timberline, ss, w/rock shock, \$450; T-Quests w/STX components, tri-shock saddle, \$450, both brand-new. Ronnie, 286-0111.

PHOTOGRAPHY EQUIPMENT - underwater, EOS housing, 2 Ai strobes, 3 ports, 2 viewers, lenses, more, \$949 firm, may split. Bob, 369-3098.

PHOTOGRAPHY FILM - professional, VPS 120 & 220, 20 rolls total, \$25. Pat, Ext. 3275.

SKI BOOTS - used, men's 9 1/2, \$20. Doug, Ext. 4084.

SKIS - Dynamic 175, Solomon binders & poles, Raichle boots, 8 1/2, \$100; women's Spaulding gold clubs & bag, \$50. Marie, 589-3020.

Lost & Found

LOST - diamond-cut gold necklace, rope, reward. Linda, Ext. 2478.

Free

CAT - 5 yrs. old, female, spayed, declawed, gray/tan, excel. w/children, larger in size, 25 lbs. dry food incl., moving. Tony, 588-2895.

DOG - German shepherd, loves kids, house & obedience trained, needs yard w/children, beautiful, good-tempered. Willie, Ext. 5377 or Efriede, 475-8637.

Audio, Video & Computers

COMPUTER - Compaq 486 laptop, 80 MB HD, 4 MB RAM, variable gray screen, battery, ac, orig. \$1,200, sell for \$700. Chuck, 821-1525.

COMPUTER - Intel 486/66, 240 MB HD, 4 MB RAM, dual floppy drives. CD ROM, mouse, video card, no mon., \$650. Paul, Ext. 7697.

COMPUTER CDS - Macromedia Action & Clip Media, \$3. Travel Companion, \$5, more. Ext. 7849.

CD PLAYERS - Onkyo, \$100; amp, needs work; turntable; dual cassette deck; will break up set, 13" b&w TV, works well, \$25. Sue, Ext. 7235 or 399-7997.

COMPUTER - Commodore 64, lots of disks & games, \$20. Mark, Ext. 4289.

COMPUTER - Commodore 64, 1541 disk drive, 1802 color mon., Star NX-10 printer, etc., \$250. 288-2364.

COMPUTER - IBM XT 286, monochrome mon., good for a child to learn on, \$100 obo. Bob, Ext. 5689.

SLIDE PROJECTOR - Vivitar, 35mm, auto focus, lens, remote, \$79. Bob, 369-3098.

STEREO - Proton, amp., rec., CD player, cass. deck, 2 Boston speakers. make offer. Janet, Ext. 2345 or 929-3910.

STEREO - Onkyo tuner, amp., Fisher 3-way speakers, 12" woofers, orig. \$350, sell for \$150. Bette, Ext. 4117 or 589-8331.

VCR - Fisher, \$50; NEC hi-fi stereo, digital quality, \$60; GE stereo, \$60. George, Ext. 3783.

Miscellaneous

DIAMOND RING - 0.567, VS2i grade, G color, 4-prong, solitaire, papers, \$2,500 firm. Chris, Ext. 4216.

ENCYCLOPEDIA - Grolier, complete set, w/year-books, excel. cond., orig. \$1,200, asking \$300. Frank, Ext. 2022 or 399-3446.

FOX COAT - full-length, size 14-16, excel. cond., \$475. 473-5063.

FUR JACKET - women's, small, \$25. Joe, Ext. 4567.

VALENTINE'S DAY RING - 0.45 ct., Si2 clarity, J-color, appraised at \$850, sell for \$395 neg. Ed, Ext. 4080.

WINTER COATS - 2 fur collars & cuffs; records, 78 rpm. Ext. 5938.

WOOL COAT - Harve Bernard, size 8, choc. brown; winter jacket, lined, extra small, best offer. 286-3742.

BOOTS - men's western, leather, 10 1/2 D, like new, orig. \$125, now \$50. Pat, Ext. 5406.

DIAMOND RING - 1.13 cts., VS2 clarity, I color, GIA certified, all papers, insurance appraisal, platinum setting, \$4,000 obo. T.J., 744-3308.

FABRIC - African prints, many to choose from, \$7-\$10/yd. Donna, 369-5704.

WOMAN'S COAT - long, black leather, size 2X, like new, orig. \$200, asking \$85. Kathy, 924-6790.

WOMEN'S COAT - silver fox collar, long wraparound style, taupe, size 10, \$50; wooden changing table, \$40. Mary, Ext. 2719.

Wanted

ICE SKATES - women's, white, size 10, good cond. Terri, Ext. 3377.

KITTENS - 2; stereo speakers, 8 or 16 ohm; 386 PC, 80+ MB HD; monitor; keyboard. Bill, Ext. 2906.

LAWN MOWERS - old, tractors, snowblowers, chain saws, complete only. Dan, 698-7322.

LEGOS - & Leggo scooper, used, for 6-yr.-old; pattern for making wooden take-apart lawn-decoration reindeer. Pam, Ext. 5752 or 286-8380.

MUSIC STAND - new or used. Mary, Ext. 2719.

GAME BOY - Nintendo. Mark, Ext. 4289.

R/C MODELS - kits. 281-6498.

ROOMMATE - female, nonsmoker, share furn. 1-bdrm. apt, 5 min to Lab, \$325/mo. incl. all. 924-0577.