BROOKHAVEN BULLETIN
Vol. 50 - No. 3 January 19, 1996
BROOKHAVEN NATIONAL LABORATORY

Hundreds Jam Berkner Hall for Public Meeting on Public Water

An estimated 650 people — largely from the communities south of the Laboratory — jammed the Berkner Hall auditorium and Rooms A, B and C on Tuesday night, when BNL held a public meeting to talk about contamination at the southern end of the Lab site and what Brookhaven proposes to do about it.

Though Suffolk County has said the contamination is *not* the result of BNL operations, but most likely emanates from a nearby industrial park, the U.S. Department of Energy (DOE) decided to offer public water hookups to some 500 residences as a precaution.

The meeting began at 7:30 p.m. with a series of presentations aimed at informing the residents, politicians, press, employees and others present of the facts of the situation.

First, staff from BNL's Office of Environmental Restoration (OER) described the sole-source aquifer on which Long Island depends for water. Then they talked about past practices at BNL's two landfills and the hazardous waste management facility, which have resulted in some chemical and radioactive contamination of that water, and the consequent three plumes that are heading south at a rate of about 300 feet a year.

This southern advance, OER staff explained, prompted the Suffolk County Department of Health Services (SCDHS), in cooperation with BNL, to test the wells of about 500 homes south of the Lab.

As of Tuesday night, 181 wells had been tested, and results from 138 of those tests were known: Of those 138 wells, *none* showed any radioactivity and four had levels of chemical contamination slightly above the New York State drinking water standard of 5 parts per billion. (The federal drinking water standard is 200 parts per billion for these chemicals.)

Though this contamination was not caused by BNL, DOE took the precaution of offering public water hookups to all 500 residences. Details of the hookups have yet to be worked out, but OER Manager William Gunther said they should be completed within a year.

After these presentations, three microphones, one in each aisle of the auditorium, were opened for public comments. About 40 people — many contentious — expressed their concerns before the meeting ended, just before midnight.

The comments reflected most residents' fear and frustration at this unexpected situation, and the panelists — who included representatives from the DOE, New York State Department of Environmental Conservation, SCDHS, Suffolk County Water Authority, and U.S. Environmental Protection Agency, as well as BNL — tried to respond to each speaker.

Though they and their operations are clearly unrelated to any water problems south of the Lab, BNL's two research reactors — the High Flux Beam Reactor and the Brookhaven

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You've Got Questions — We've Got Answers

Faced with strong community opposition, the Laboratory postpones its plans to upgrade the sewage treatment plant.

The U.S. Department of Energy (DOE) offers free public-water hookups to about 800 home owners just south of the Lab.

WPIX TV Channel 11 runs an "exclusive report" — based on information from a Lab employee — that BNL handles radioactive waste carelessly.

A DOE whistle-blower claims that faulty procedures marred the official investigation into the 1994 fire at an experiment at the High Flux Beam Reactor.

A local activist issues a press release lambasting Brookhaven.

What's an employee to think?

Employees must come to their own conclusions, but everyone must remember that, with issues as complex as these, all the facts are not found in a TV spot or a newspaper story, and even the Brookhaven Bulletin has had difficulty finding the space to give this subject the attention it deserves.

To try to sort out the facts, the Bulletin spoke this week to four people with comprehensive knowledge of these issues: Bob Casey, Head of the Safety & Environmental Protection Division; Sue Davis, Associate Director for Reactor, Safety & Security; Carson Nealy, Manager of DOE's Brookhaven Group; and BNL Director Nicholas Samios. On page 2, they answer the questions we thought you'd ask.

Though we hope to address most of your concerns, we know there may be some we haven't covered. In that case, employees are encouraged to call the Public Affairs Office, Ext. 2345, or to stop by the office in Bldg. 134 to pick up:

• **BNL's 1994 Site Environmental Report** — This annual report presents results of the Lab's environmental monitoring program for 1994 and assesses BNL's impact on the environment. The report also summarizes data on measurements of chemical and radionuclides in the air, surface water, groundwater, soil, fish and vegetation around the Lab site.

The report concludes that, during 1994, a hypothetical person living at the site boundary, eating fish from the Peconic River and drinking well water from the area, would have received a radiation dose of 1 millirem, in addition to the background radiation dose of up to 300 millirems that he or she could have received on Long Island from other sources (see pie chart on page 2).

• **Fact sheets** — Fact sheets are now available on such topics as: BNL's sewage-treatment plant, tritium going into the Peconic River, regulatory agencies overseeing BNL, common myths about BNL, the radiation that people get from various sources, and computing your radiation dose. Employees are encouraged to use these fact sheets in

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Posing questions to: (back, from left) Sue Davis, Associate Director for Reactor, Safety & Security; Bob Casey, Head of the Safety & Environmental Protection Division; Carson Nealy, Manager of DOE's Brookhaven Group; and BNL Director Nicholas Samios, are (front, from left) Anita Cohen and Mona Rowe, for the Brookhaven Bulletin.

AUI Distinguished Lecture

Human Evolution: An Anthropologist's View

Despite the widespread popular belief that humankind is evolving to become in some ways better, or more perfect, scientific evidence definitively shows that this is not so. Further, since humankind is at the end of the evolutionary line, we will have to live with ourselves as we are now.

These intriguing views are held by Ian Tattersall, Chairman and Curator of the Anthropology Department at New York City's American Museum of Natural History, who will discuss his contentions in the next AUI Distinguished Lecture. Entitled "Human Evolution: How We Know What We Think We Know," his talk will take place on Wednesday, January 24, at 4:30 p.m., in Berkner Hall. The lecture is free, and the public is invited.

In his talk, Tattersall will discuss how tracing human evolution has become more sophisticated due to recent advances in fossil-dating techniques reinforced by genetic studies.

Unlike many of his colleagues, Tattersall believes a larger number of proto-human and human species existed during the five million years of human evolution before *Homo sapiens*, or modern humans, appeared about 50,000 years ago. He will explain why he feels that the focus on *Homo sapiens* distorts the richer view of the diversity of the evolutionary family.

And regarding any further evolution among humans, Tattersall will show how the emergence of new species among mammals requires that a small portion of the population be physically separated from the rest — a condition that no longer exists among humans. He'll suggest, however, that conditions in the world are such that the evolution of other species may be speeded up.

An expert in physical anthropology and primatology, Ian Tattersall received a B.A. and M.A. from Cambridge University and a Ph.D. from Yale University.

Anthropologist Ian Tattersall, by the Neanderthal diorama in the Hall of Human Biology & Evolution at the American Museum of Natural History.

In 1971, he joined the staff of the American Museum of Natural History where he is currently curator of a unique permanent exhibit, the Hall of Human Biology and Evolution, the world's most extensive museum treatment of human evolution.

Tattersall is the author of several books on evolution, most recently *The Fossil Trail: How We Know What We Think We Know* (Oxford University Press, 1995) and *The Last Neanderthal* (Macmillan Inc., 1995).

Associated Universities, Inc. (AUI), initiated the AUI Distinguished Lecture series at BNL in 1965. Tattersall will be the 67th speaker in the series, which features experts in various subjects who lecture on topics of general interest. — Diane Greenberg

You've Got Questions — We've Got Answers

(cont'd.)

answering family members' questions, and to share them with neighbors and friends, or distribute them at speaking engagements.

• **Extra copies of this issue of the Brookhaven Bulletin**

If you still have questions and want them handled in *complete confidentiality,* use one of the many avenues available to BNL employees described on page 4.

Now, Bob Casey, Sue Davis, Carson Nealy and Nicholas Samios answer our reporter's questions:

Is it safe to breathe the air and drink the water?

Samios: Yes. BNL employees should know that it is safe to breathe the air and drink the water here on site. But it's true that BNL operations today do result in chemical and radioactive emissions to the environment. Those emissions, however, are very low and well within federal, state and local regulations, and we are working to reduce them further.

Have radioactive waste and chemicals from the Lab entered into the groundwater?

Casey: Yes, radionuclides and volatile organic chemicals have entered the groundwater and traveled beyond the Lab boundary in some locations on the east and south sides of BNL. How did this happen? Primarily from past practices, which were then in compliance with past regulations, and from occasional accidents and spills, which have been documented. We also know that our releases from the sewage-treatment plant recharge to the groundwater.

East and southeast of BNL, we have measured and reported low levels of tritium in certain domestic wells. These private wells east of BNL are affected by the Peconic River watershed, which we know has been impacted by BNL's operations. Suffolk County tests these wells on a quarterly basis, and the tritium levels are typically less than 10 percent of the New York State Drinking Water Standard.

Bob Casey

Davis: In recent months, south of the Lab, we have measured and reported volatile organic compounds. Even though our plumes of contaminants are very deep — deeper than where most domestic wells draw their water — this past fall, we asked the County to begin sampling domestic wells just south of the Lab.

Sue Davis

Of 138 samples analyzed so far, four are at or above the drinking water standard for 1,1,1-trichloroethane, or TCA. The standard is 5 parts per billion and the four wells range from 5 to 16. These homes were immediately provided with bottled water.

Nealy: Although it's not at all clear where the TCA is coming from, the Department of Energy has taken the prudent step of offering public water hookup to residents in the area.

Was this action taken to cover-up past practices?

Nealy: Absolutely not. We took this action because it's the responsible thing to do.

What about radioactivity in the area south of the Lab?

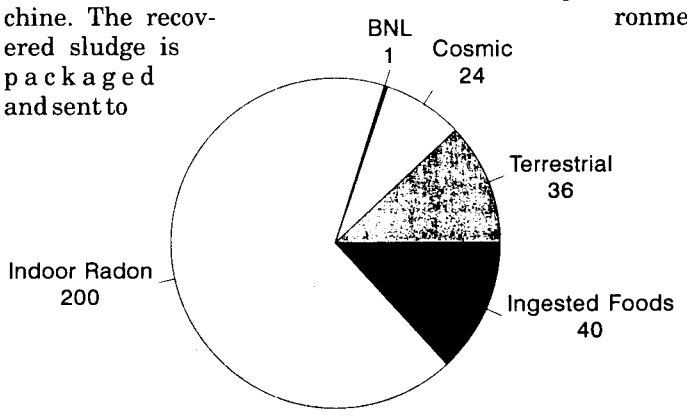
Davis: Radiation is not the problem south of the Lab. None of the wells tested has contained tritium. A percentage of the samples were also checked for cesium-137 and strontium-90, and nothing was found.

What about spilled radioactive water in a building on site, as shown on the videotape played by Channel 11?

Casey: That building is Bldg. 811, which is BNL's facility for reducing the volume of low-level radioactive liquid waste. The building has a lower-level basement designed to contain any radioactive liquid that might leak accidentally. In December 1993, a pump failed and released contaminated water, which was contained by the pit. The spill was cleaned up, and no liquid was released to the environment.

Now let me give you more background on Bldg. 811, which I imagine many employees have never heard about. This facility has operated since the early 1950s. Its purpose is to concentrate our low-level liquid radioactive wastes into a slurry.

In the past, the Lab has used an evaporator and a demineralizer. Most recently, we've used a vendor-supplied reverse-osmosis machine. The recovered sludge is packaged and sent to DOE's Hanford site, in the state of Washington.



Pie chart of annual radiaton exposure in millirem units for a hypothetical person living at the BNL site boundary, eating fish from the Peconic River and drinking well water from the area.

Prior to May 1995, remaining liquid, which contained tritium, was discharged to the Lab's sewage treatment plant. The discharge was controlled to make sure that the tritium released was less than half of the drinking-water standard.

About 60 percent of the liquid waste handled by Bldg. 811 comes from the High Flux Beam Reactor. Liquid waste is generated there in normal operations and occasional small leaks from pump and valve seals. The waste is stored in tanks and then discharged intermittently to Bldg. 811. I want to emphasize that the very radioactive heavy water used to cool the reactor is in a closed system and does not discharge to Bldg. 811 nor to our sewage-treatment plant.

Because of the public's concern over our tritium releases to the Peconic River through our sewage-treatment plant, we've been gradually finding ways to reduce the amount of tritium discharged that way. In the mid-1980s, my division [the Safety & Environmental Protection Division] proposed a tritium evaporator facility coupled to the air stack of the HFBR as a means of reducing tritium released to the Peconic.

Since the new evaporator would slightly increase the tritium release from the stack to the atmosphere, in 1988 the Lab applied for and received a permit from the Environmental Protection Agency for the new evaporator. The project was funded from the Lab's budget for infrastructure upgrades. Because the facility didn't have the highest priority, however, we didn't put the new evaporator on line until May of 1995.

Operation of the evaporator in 1995 released seven curies to the stack, which can be compared to the 96 curies released by the HFBR. The maximum dose to a member of the public from these combined releases is less than 0.001 millirem. The EPA dose limit to the public via airborne radionuclides is 10 millirems.

What about tanks leaking radioactive water directly into groundwater?

Davis: Historically, BNL has used a total of 11 large steel tanks to hold low-level radioactive waste generated by scientific experiments and other operations on site. Before those tanks were replaced by new ones, some small leaks had occurred, but environmental effects were minimal because either the tanks had secondary barriers or they were routinely inspected.

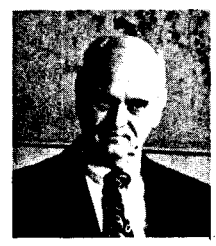
In 1994, under BNL's Superfund cleanup program, the three largest tanks and six others were dismantled, cut up, and packaged for proper disposal at a federally approved facility. The Lab is working to remove the remaining tanks, and we continue to monitor the soil and groundwater adjacent to the area to make sure we protect workers and the environment.

What can you tell us about Channel 11's report of asbestos and radioactive waste in plastic bags torn by animals?

Casey: As part of the Superfund project to dismantle and remove the steel tanks we just talked about, we also had to remove steam lines connected to the tanks. These, of course, were wrapped with asbestos-containing insulation, just like the pipes in many homeowners' basements. The asbestos was double bagged, checked for radioactivity, and some was handled as low-level waste. The bags were stored outdoors in a locked, fenced area prior to pickup, and, although some were damaged, there was no environmental threat created by the situation.

And what about the fire at the HFBR that the TV report also noted?

Nealy: Yes, there was a fire in March of 1994, at an experimental station at the HFBR. The reactor itself was not involved, and the reactor operators were not at fault. This incident was fully investigated by DOE, and the root cause was lack of a comprehensive safety review of the experiment commensurate with the level of hazard. That experiment was permanently shut down, and new procedures are now in place to address this problem at all experiments. Radiation was released from the stack during this incident. The amount was equivalent to 1 to 2 seconds of natural background radiation.



Carson Nealy

Samios: Channel 11 was inaccurate in describing the fire. For example, my quote was taken entirely out of context, causing pain for the operators who are working so hard to keep a fine research instrument at its top performance. I'm sorry this happened.

Two individuals have accused BNL of cover-up. Is there any truth in that?

Samios: BNL is not engaged in any cover-up. When employees have complaints about environmental practices at work, the Lab takes them seriously and does an investigation when warranted.

Nicholas Samios

Casey: In 1994, an employee at Bldg. 811 raised concerns about our practices there. A Lab committee investigated his complaints, found fault with management on certain issues, found fault with the employee for certain actions, and made recommendations for better procedures. The committee, however, found no significant threat to employees or to the environment.

Samios: The Laboratory operates within the law, under federal, state and local regulations. All accidents are reported. Some people are inclined to target BNL's two research reactors as the culprits in our environmental problems. In fact, we operate these reactors with respect for human health and safety and with concern for the environment. We must, because we recognize that we cannot jeopardize the vital and, in some cases, potentially lifesaving research that is carried out at these reactors.

Senator D'Amato has called for an investigation focusing on contamination and past practices at BNL. We welcome investigations.

Suffolk County launched a year-long comprehensive environmental survey of every building on site, beginning in 1988. The very formal Superfund process, which puts the Lab under scrutiny by EPA, DOE and New York State, has been under way since 1989, when BNL was named a Superfund site. The DOE Tiger Team did a month-long environmental, safety and health investigation in 1990. And our hazardous waste management facility is inspected by outside agencies every year.

So you see that BNL cooperates fully with any agency or arm of the government that wishes to investigate the Lab. We have nothing to hide.

Public Meeting

(cont'd.)

Medical Research Reactor — were the target of several speakers who called for their shutdown.

For instance, as he had at an earlier public meeting at BNL (see box, page 2), Bill Smith, Executive Director of Fish Unlimited distributed a press release demanding a shutdown "until a complete, through [sic] and unbiased investigation can be done to determine the extent and content of groundwater, air and environmental contamination."

Such an investigation has already been done. Bob Casey, Head of BNL's Safety & Environmental Protection Division, pointed out that the Laboratory, DOE, New York State and Suffolk County are continually monitoring BNL's releases to the environment.

At the meeting, Casey addressed the comments of epidemiologist Jay Gould, who contends that BNL is responsible for a high incidence of breast cancer for a 15-mile radius around the Lab site. But, using Gould's own data on a map illustrating the direction of groundwater flow and Long Island's prevailing winds, Casey showed that there is actually a higher incidence of breast cancer west of the Lab, where BNL's water never flows and the winds from the Lab rarely blow.

Nonetheless, Casey proposed that BNL, Gould and breast cancer activists form a study group to examine these data and report their findings to the community. Gould accepted the proposal.

— Anita Cohen

Fish Unlimited's Press Release

Bill Smith, Executive Director of FISH Unlimited, which calls itself "The Leaders in Fisheries Conservation," distributed the following press release to attendees at a workshop that BNL held on January 4, to discuss plans for the Lab's Sewage Treatment Plant.

Just When You Thought It Was Safe To Breath The Air and Drink the Water

Fish Unlimited - *The Fisheries Conservation Group*, announced today that after two months of research they have discovered that radioactivity from Brookhaven National Laboratory (BNL) is being discharged on a regular basis into our air.

"We have discovered through a source on site at BNL that because of the public outcry these past few months about the discharge of radioactive tritium through the Brookhaven Lab's Sewage Treatment Plant into the Peconic River, BNL is now utilizing a large boiler adjacent to their primary Nuclear Reactor to turn the Radioactive water into stream, then venting it through the large smokestack behind building #801. Bill Smith, Executive Director of Fish Unlimited stated. In the past this water had been pumped into a hazardous waste building (#811) when it was then diverted to the Sewage Treatment Facility to be diluted and subsequently discharged into the Peconic River which would explain the excessive levels of tritium measured by New York State Department of Health in this body of water.

"This entire process is part of a planned effort to discharge as quietly and inexpensively as possible, radioactivity that is generated from the operation of the main reactor at BNL into our air and waters" Smith said, but this is only part of a much larger picture which involves radioactive contamination of private wells, and attempts at cover-ups. We have also recently discovered discovered that private residential wells in the Carlton Drive/Brookhaven Airport area have excessive levels of radioactivity, specifically Strontium-90, Tritium and Cesium-137 the same radioactive poison that was released from the Chernobyl nuclear disaster and that BNL is now offering to hook these homes up to public water in order to keep the residents quiet and again attempt to cover-up past practices.

In light of these developments Fish Unlimited is calling for an immediate closure of the two nuclear reactors at Brookhaven Lab, until a through and unbiased investigation by an outside agency can be completed, focusing on contamination and past practices at Brookhaven Lab and its effect on our environment."

For further information contact Bill Smith @ Fish Unlimited - 516-749-3474.

You *Can* Drink the Water

Is the Lab's water safe to drink? It's a fair question, given all the press about how the Lab is polluting the environment. But, the fact is, the Lab's drinking water *is* safe to drink.

How do we know? The drinking water supply at BNL, which comes from six wells, is routinely monitored and tested.

To control high levels of iron or manganese naturally found in the water in three of these wells, the water goes through a state-of-the-art filtration process at the Water Treatment Plant in Bldg. 624 before it is distributed.

The other three wells have carbon-absorption filters to keep the solvent TCA and other compounds from entering the water supply; the potential for these compounds to be in the well water exists due to past practices, when standards for disposal and cleanup were not as stringent.

The Suffolk County Department of Health Services tests the water from these wells routinely and finds it to be within the drinking water standards for all organic compounds, from pesticides to solvents.

The Lab's comprehensive sampling and analysis program meets all New York State Department of Health regulations and is approved by the Suffolk County Department of Health Services. This program includes monthly monitoring for bacteria, quarterly analyses for principal organic compounds and annual testing for heavy metals, pesticides and radioactivity. Each supply well and the water-distribution system is analyzed by a state-approved, independent commercial testing laboratory for over 100 potential contaminants each year.

The results of the testing are summarized annually in the Lab's Site Environmental Report. Copies of the 1994 report are now available to all in the Public Affairs Office, Bldg. 134. The current report and past reports are also available at the Research Library, Bldg. 477.

Testing in October 1994 showed lead in a few locations at levels exceeding the U.S. Environmental Protection Agency's standard for potable water. Since then, testing at those locations has met the standard.

The lead in the water did not come from the Lab's water-treatment plant or potable supply wells, but from the water's sitting long hours in building plumbing systems, and it's conceivable that lead could still leach into tap water occasionally. To be quite sure that drinking water is lead-free, flush the tap water for 30-60 seconds, until it's noticeably colder, especially if the water has been unused for more than six hours. And by the way, employees should be taking these same precautions at home, too.

BROOKHAVEN BULLETIN

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

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First RAP Drill Held at BNL

Accidents involving radioactive materials do not occur often, but in case they do, the U.S. Department of Energy's (DOE) Radiological Assistance Program (RAP) has teams of experts on call round-the-clock, seven days a week, to provide monitoring, assessment and advice to local authorities on the best way to handle the incident. Established in 1958 by the Atomic Energy Commission to protect people and property during a radiological emergency, RAP is now managed by eight regional DOE offices throughout the U.S. BNL is the Northeast region's headquarters for RAP — and for the first time, on December 7, it was the site of a drill to give emergency responders practice in handling an accident involving radiation. The drill scenario involved a pickup truck loaded with radiopharmaceuticals en route to a Long Island hospital. Pictured here monitoring the mock accident scene on Groves Street are three Suffolk County Emergency Service workers with Geiger counters, accompanied by Richard Diem (second from left), Safety and Occupational Health Manager, DOE, Brookhaven Group. Also participating in the drill were Suffolk County fire and health services personnel and police, as well as additional DOE and Brookhaven staff, including employees from the Public Affairs Office and the Safety & Environmental Protection Division who make up BNL's RAP team.

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.

• **January 22, 1946** — Leslie Groves, Commanding General of the Manhattan District, replies to a letter from George Pegram, Dean of Columbia University. The letter had stated the need for a regional research laboratory near New York City and offered the assistance of the following institutions to achieve it: in Connecticut — Yale University; on Long Island — Carnegie Institution of Washington Department of Genetics at Cold Spring Harbor; in New Jersey — Princeton University, Rutgers University, Standard Oil Development Corporation, Stevens Institute of Technology; in New York City — Bell Telephone Laboratories, the Board of Higher Education (representing City College of New York, and Hunter, Brooklyn and Queens Colleges), Columbia University, Cornell University Medical College, Fordham University, Long Island College of Medicine, Memorial Hospital, Polytechnic Institute of Brooklyn, Research Corporation, Rockefeller Institute for Medical Research; in Pennsylvania — Bartol Research Laboratory, University of Pennsylvania.

In his reply, Groves proposes that the idea be explored further at a conference on February 8, between Colonel Kenneth Nichols, Groves's representative, and representatives of the sponsoring institutions.

(To be continued on February 2.)

LINK.bnl Now on the World Wide Web

As of the January issue, LINK.bnl, the newsletter of the Computing & Communications Division, is available on the World Wide Web.

To access it electronically, use the address *http://www.ccd.bnl.gov/LINK.bnl*. To receive announcements that new issues are available on line, subscribe to the mailing list link-1 by sending an e-mail mesage to listserv@bnl.gov containing the single line *subscribe line-1 Your Name*.

To receive a paper copy of LINK.bnl, stop by the Documentation Store, Bldg. 515, to complete a LINK.bnl subscription-request form.

Linux Users' Group

The BNL Linux Local Users' Group has rescheduled its snowed-out Linux Fair for Wednesday, January 24, from 11:30 a.m. to 1:30 p.m., in the lobby of Berkner Hall.

Linux is a UNIX-like operating system designed to run on a personal computer. During the fair, group members will demonstrate applications such as the X Window system, scientific programs, PP client-server connections and Netscape. Several computers will be set up for viewing and interacting with these applications.

For more information contact Matt Surico, Ext. 2426, or e-mail him at surico@bnl.gov.

Software Demo

On Wednesday, January 24, at 1 p.m. in the CCD seminar room, Bldg. 515, a systems engineer from Pure Software will demonstrate the company's software-development tools, which can eliminate run-time memory errors, find untested code, improve application performance and perform fast incremental links. These tools include Purify, PureCoverage, Quantify, Purelink, PureDDTs, Pure TestExpert and PureVision.

The representative will also discuss technical details and advanced usage tips. For a short description of Pure's tools, call Susan Eng, Ext. 7988, or send her e-mail at sge@bnl.gov.

Got a Problem? They Can Help!

Lab employees who have work-related problems, questions or complaints have several avenues open to them. All of the following sources treat their contact with employees in a strictly confidential manner, and employees are encouraged to seek out whatever source may be best to address their particular concern.

• **Diversity Office** — Headed by Lorraine Merdon, this office offers assistance with issues related to the Lab's equal opportunity, affirmative action, diversity and sexual harassment programs. For help with these or other workplace issues, call Ext. 3318, or contact:

•• your department or division's **Equal Opportunity Representative**, who serves as a liaison to the Diversity Office.

•• a member of the **Affirmative Action Advisory Committee** (at right).

Members of the Employee Relations Committee include: (back from left) Patricia Fox, Department of Applied Science, Ext. 2939, Bldg. 179A; Elizabeth McBreen, Physics Department, Ext. 5111, Bldg. 510D; Marie Hicks, Information Services Division, Ext. 3802, Bldg. 477B; Conrad Koehler Jr., Chemistry Department, Ext. 4310, Bldg. 555B; (front, from left) Sue Ellen Gerchman, Biology Department, Ext. 3417, Bldg. 463; Grace Webster, Department of Advanced Technology, Ext. 3227, Bldg. 830; Chairman William McGahern, Alternating Gradient Synchrotron Department, Ext. 2171, Bldg. 911B; and (not shown) Michael Kelly, National Synchrotron Light Source Department, Ext. 3476, Bldg. 725D. Gerchman, Koehler and McBreen are new members this year, and Susan Foster (front right), who is BNL's Employee Relations Counselor, is an ex officio member. Carl Jacobs, Physics Department, (back right) completed his three-year term at the end of last year, as did Mary Durham, Plant Engineering Division, and Ann Emrick, Biology (not shown).

The Affirmative Action Advisory Committee advises the Laboratory Director on the progress of affirmative action and equal employment opportunities at the Lab. At a luncheon in December, committee members (noted by an asterisk) and guests were: (center, left) Acting Chair Elizabeth McBreen*, Physics Department; (front, from left) outgoing member Hue-Anh Pham, Relativistic Heavy Ion Collider Project; Nancy Hoey, Diversity Office; Marsha Kipperman, Human Resources Division; Frances Ligon, Diversity Office; Myron Strongin*, Physics; (back, from left) Terrence Buck*, Division of Contracts & Procurement; Robert Brown*, Medical Department; Sandi Sullivan*, Department of Advanced Technology; Deputy Director Martin Blume; Jeffrey Taylor, Diversity Office; and Richard Melucci*, Budget Office. Not shown are: April Donegain*, Fiscal Division, and Susan Eng Wong*, Computing & Communications Division. **—BNL photos in this issue by Roger Stoutenburgh**

•• the **Women's Program Coordinator**, Victoria McLane, who addresses the employment concerns of women by assisting in implementing programs that respond to their needs. Contact McLane at Ext. 5099, Bldg. 197.

• **Employee Assistance Program**— Clinical psychologist Joseph Gisondo manages this program, which can assist employees with mental health problems affecting job performance, provide information on mental health issues, and offer counseling for such difficulties as alcohol and drug abuse, and family, marital or personal problems. For free confidential counseling on site with either Gisondo or clinical psychologist Dianne Polowczyk, call Ext. 4567.

• **Employee Relations Committee (ERC)** — This eight-member committee is dedicated to helping non-bargaining, nonscientific employees solve work-related problems that they have not resolved with their supervisors. The ERC, which is responsible to the Laboratory Director, reviews employees' complaints and attempts to hear all sides of an issue before making a recommendation. Everything is kept completely confidential, and no action is pursued without the complete agreement of the employee involved.

To bring a problem to the ERC's attention, call its special number, Ext. 4005, or contact a current member. See photo above left for names and numbers.

• **Employee Relations Counselor** — Susan Foster holds this position and is available to talk to non-bargaining unit employees about work-related problems. Foster is also responsible for coordinating the Employee Concerns Program, which includes issues related to mismanagement, gross waste of funds, abuse of authority, and environment, safety and health. Contact her in the Human Resources Division, Bldg. 185, Ext. 2888.

• **Office of Environmental Restoration** — If you have questions about the Laboratory's Superfund activities, call Kathy Geiger, Ext. 3129, or John Carter, Ext. 5195.

• **Rumor Hotline** — Leave a message on the Rumor Hotline, Ext. 2752 — ASK1— to have rumors about the Lab verified. Though callers must leave their names and extensions so that someone in the Public Affairs Office can get back to them with answers, Public Affairs keeps the employees' identities completely confidential.

• **Tune In!** — The Tune In! program, run by the Editor of the Brookhaven Bulletin, gives employees a confidential means of directing questions or complaints to members of management, who then respond in writing. The bright orange and white Tune In! forms should be found in special boxes in most buildings. If your building's box is empty, or if you can't find a box, call Public Affairs, Ext. 2345, for forms. You can also send a Tune In! via e-mail to acohen@bnl.gov, or access Tune In! on the World Wide Web, at http://www.bnl.gov/PUBAF/BNL_ONLY/tune_in.html.

Coming Up

Chemist C. Ruth Kempf, Associate Head of the Department of Advanced Technology's Safeguards, Safety and Nonproliferation Division, will give the 312th Brookhaven Lecture on Wednesday, January 31. Her talk, on "Safeguarding Russian Nuclear Materials: U.S.-Russian Cooperation," will begin at 4 p.m. in Berkner Hall.

Healthline Lecture

Allergy Update

If you sneeze, wheeze or break out in a rash in response to the season; or after coming in contact with certain animals, plants or materials; or upon eating certain foods, then you are one of the more than 58 million American who has an allergy — and the next Healthline lecture, "Allergy Update: Symptoms and Treatment," is for you.

Sponsored by the Health Promotion Program (see box, bottom right), the talk will be given by physician Paul Lusman on Tuesday, January 23, noon to 1 p.m. in Berkner Hall.

After discussing how the human immune system reacts to allergens, Lusman will focus on the diagnosis and treatment of one of the most common allergic reactions — hay fever.

A diplomate of the American Board of Allergy and Immunology and the American Board of Pediatrics, Lusman specializes in treating pediatric allergy and is an attending physician at the University Hospital at Stony Brook and St. Charles Hospital. He is a fellow of the American Academies of Pediatrics and Allergy, and the American Colleges of Chest Physicians and Allergists.

To register for this lecture, return the completed bottom portion of the Healthline flyer recently mailed to all employees to Mary Wood, Bldg. 490.

Note to Employees:

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

Healthline & Outreach Schedule

In addition to next week's talk, 11 more lunchtime presentations have been planned through June, for the Healthline lecture series of the Health Promotion Program and the Outreach workshop series of the Employee Assistance Program. Under the auspices of the Occupational Medicine Clinic, the Healthline series presents talks on topics related to healthy living, while Outreach offers discussions of psychological issues and social problems. All are invited to attend. Talks scheduled are:

Date	Series: topic	Speaker
Tue., Jan 23	**Healthline**: Allergy update	Paul Lusman, M.D.
Tue., Jan. 30	**Healthline**: Chronic pain	Ronit Adler, M.D.
Wed., Feb. 28	**Outreach**: Stress & time management	Lydia Segger,Ph.D.
Tue., Mar. 5	**Healthline**: Income budgeting	Lisa Kelly, CPA
Mar. 8, 13, 22, 27	**Outreach**: Stress management workshop	Susan Dermit, Ph.D.
Tue., Mar. 19	**Healthline**: Arthritis treatment	Ronald Bennett, M.D.
Apr. 16, 23, 30	**Healthline & Outreach**: menopause workshop	Dianne Polowczyk Ph.D., Mary Wood, M.S
Wed., May 15	**Healthline**: Laser eye surgery	Charles Bloomgarden, M.D.
Wed., May 29	**Healthline**: Pediatric emergencies	Craig Smestad, M.D.
Tue., Jun. 4	**Outreach**: Compulsions	Steven Viani, Ph.D.
Tue., Jun. 18	**Outreach**: Perfectionism	Jonathan Hoffman, Ph.D.

See future issues of the Brookhaven Bulletin for details on each presentation, or, for general information, call Ext. 5923 about Healthline lectures, or Ext. 4567 about Outreach workshops.

Quit Smoking Now

If rain and sleet won't stop you, but snow did, then you have another chance to stop smoking now: the Green Seminar, which was to have taken place on January 9, has been rescheduled for Monday, January 22, from 4:30 to 6:30 p.m. in Berkner Hall.

The seminar combines hypnosis with behavior-modification techniques to help participants kick the habit after one session, without gaining weight afterwards.

All employees and their dependents who smoke but wish to quit are invited. The cost is $10 per person for new attendees; those who have attended before may participate free of charge. To reserve your place, complete and return the bottom portion of the flyer recently mailed to all employees to Health Promotion Specialist Mary Wood, Bldg. 490. For more information, call Ext. 5923.

See supplement for additional articles and classified advertisements.

Gospel Extravaganza Returns to BNL

After a one-year hiatus, the Annual Gospel Extravaganza will return to BNL for the fourteenth time. Sponsored by the Laboratory's Afro-American Culture Club to celebrate Black History Month, the event will be held in Berkner Hall on Saturday, February 3, at 7 p.m.

A nationally recognized 35-member choir — James Hall and Worship and Praise of Brooklyn — will be the featured group. Also on the program will be the BNL Gospel Choir, the Choir of the First Baptist Church in Riverhead, the First Pentecostal Jr. Mass Choir of New Jersey and New York, and the Voices of Mount Sinai of the Mount Sinai Baptist Church, in Roosevelt.

Tickets are $12 for adults and $5 for children under 12 and may be purchased from the BERA Sales Office, open weekdays from 9 a.m. to 1:30 p.m. There will be no reserved seats and no tickets sold at the door. Order early to be assured of seats, since tickets usually sell out well before the event. For ticket information, call the BERA Sales Office at Ext. 3347, or Kay Dellimore, Ext. 2873.

James Hall and Worship and Praise

Learning Science the Fun Way

It's neither a toy convention, nor a vacuum-cleaner sale — the snaky device that everyone is holding in the photograph is the apparatus used by staff from the BNL Museum Programs of the Office of Public Affairs to demonstrate that sound travels in waves. Usually, the staff would be leading a group from the almost 25,000 schoolchildren who come to the Lab annually to see the BNL Science Museum and learn about science. But this half-day seminar held on October 9 had a different purpose: to familiarize local school science coordinators with the free educational opportunities available at BNL for students from kindergarten through 12th grade. Twenty-two coordinators from 19 Suffolk County schools attended the seminar, which was organized by Elaine Lowenstein (right) together with (back, from left) Janet Tempel, Supervisor, Museum Programs, and staffers Eloise Gmur, Dolores O'Connor and (sixth from left) Ruth Fernow. After a welcoming address by Mark Sakitt, Assistant Director for Planning and Policy, participants joined in a panel discussion on the educational opportunities for elementary school students at BNL with representatives from Museum Programs and the Office of Educational Programs. Later, the science coordinators toured the facilities in which student interns are placed, visited the Science Museum and observed some of the hands-on investigations for children offered at BNL.

Reports Available

The following reports are available to Lab staff and affiliates of DOE, AUI and NRC. Others may purchase them from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, VA 22161. Staff members should call the designated contact.

BNL-52473
Contact: L. Dudzick, Ext. 2954
Assessment of the IVA3 Code for Multifield Flow Simulation. H.B. Stewart
BNL-52477
Contact: S. Carlsen, Ext. 7647
Development of a Cable Reel Deployment System Using a Rotary Joint for Kilometer Lengths of Two-Fiber Multi-Mode Fiber. J.A. Curtiss, J.R. Jahelka
BNL-52481
Contact: M. Heimerle, Ext. 4776
Numerical Spin Tracking in a Synchrotron. Computer Code SPINK — Examples (RHIC). A. Luccio

Volleyball

Standings as of January 11

Open League		League I	
Pass, Set & Crush	28-8	Bikers 'n Spikers	26-7
Monday Maulers	28-8	Rude Dogs	24-12
Far Side	15-21	Scared Hitless	18-18
Spikers	14-22	No Names	17-19
Bud Hitters	5-31	Underdogs	5-34
League II		**League III**	
Spiked Jello	25-5	Silver Bullets	20-4
Safe Sets	22-8	Joy of Sets	17-7
Monday Nite Live	19-11	Upton Ups	17-7
Fossils	17-13	Just 4 Fun	14-10
Nuts & Bolts	13-17	Harlem Knights	13-11
Jolly Vollies	13-17	High Volley'em	10-14
Volley Folly	8-22	DO-DAT	9-15
Night Court	3-27	New Comers	6-18
		OER	2-22

United Way Drive Totals $86,383

With pledges totaling $86,383, this year's BNL United Way Fund Drive is complete. The final prize drawings among the pledge cards submitted by this year's donors yielded dinner certificates for Charles Murray, Relativistic Heavy Ion Collider Project; and Juanita Heyliger, Management Information Systems Division; while Jonathan Hansen, Chemistry Department, won the grand prize dinner-theater weekend in New York City.

Said BNL Fund Drive Chair Michelle Cummings, "We had a very successful campaign, coming close to our goal of $90,000. The BNL representatives were wonderful, supportive and enthusiastic, and we were also fortunate to have Bob Sewell from the Long Island United Way to help us. Pete Esposito [Fund Drive Co-Chair] and I thank the Lab community for your generosity to the United Way, helping support the over 160 Long Island community-service agencies."

Bowling

Purple & White League — Jan. 4

A. Amasy 258/203/624 scratch, S. Logan 232, M. Guacci 225/198, K. Riker 221/191, R. Wiseman 215/192, D. Riley 199, M. Picinich 196, D. Fisher 194, R. Picinich 192/191, J. McCarthy 190, N. Fewell 185, J. Blydenburgh 182, S. Frei 180, P. Manzella 179, M. Musso 173, S. Frei converted the 2/4/5/10 split.

Purple & White League — Jan. 11

M. Meier 243/218/620 scratch, R. Larsen 234/629 scratch, P. Callegari 229, J. McCarthy 203, R. Wiseman 202/197, D. Riley 200/190, M. Guacci 198/197, G. Mehl 190, D. Botts 190, D. King 189, M. Musso 187/170, P. Manzella 181/171/170, M. Picinich 181, N. Besemer 180, T. Mehl 176, R. Picinich converted 2/10 split.

Green & Red League — Jan. 2

K. Asselta 253/223/641 scratch, H. Arnesen 245/605 scratch, J. LaBounty 236/604 scratch, E. Larsen 224, R. Larsen 220/216/213/649 scratch, B. Geib 223, R. Wiseman 220/204, R. Wahlert 218, H. Dawson 216, R. Mulderig 211/203/201/615 scratch, J. Griffin 206, K. Koebel 203, R. Eggert 202, E. Sperry IV 202.

Arrivals & Departures

Arrivals

Christoph A. Felder.....Chemistry

Departures

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

Robert L. Foxworth.....NSLS

Telephone Update

Phone-System Training

The last training session on using the new Siemens Rolm Communications (SRC), Inc., telephone system will be held from noon to 1 p.m. in Berkner Hall on Thursday, January 25.

For those who can't make this final class, 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.

Phones to Change Week of 1/22

In the following order, the remaining buildings served by node site 2 in Bldg. 703 will be switched to the new SRC telephone system over the weekend and through the week of Monday, January 22, the seventh week of the changeover. Those to have digital service are listed in bold; those continuing with analog service are in plain text.

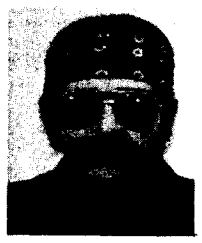
Date	Bldg.
Sat., Jan. 20	**490, 490A, 491**
Sun., Jan. 21	**490** continued if required
Mon., Jan. 22	**30, 51, 348**, 449, **50, 599**
Tue., Jan. 23	**97, 118, 452, 130**
Wed., Jan. 24	153, 170, **179A, 179B**
Thu., Jan. 25	176, 180, **184**, 193, **134**
Fri., Jan. 26	**194, 244**, 257, 258, 259, 302, 303, 304, 306, 307, 317, 422, **426, 185**

6000 Series Extensions

With the new 344- exchange, the 6000 series is now available for BNL extensions. If your building has not yet been changed to the new system, and until it is changed over, to dial a 6000-series extension, you must dial 344-6### to reach that extension.

In Memoriam

Donald Becker, a technical associate II in the Department of Applied Science, died of a heart ailment on December 23, 1995. He was 46.



Donald Becker

In 1979, Becker was a Lab guest contractor from January to August, then joined the Nuclear Engineering Department as a technician IV. In 1983, he moved to the Department of Applied Science and was promoted to his last position in 1989. His main responsibilities were to manage, maintain and operate the High Flux Positron Beam Facility in Bldg. 480, used for condensed matter and atomic experiments.

Said Senior Scientist Kelvin Lynn, Becker's supervisor, "Don was incredibly dedicated to his job — he had to be pushed to take even a day of vacation, and never admitted to any kind of ill health. He was a true individualist and extremely talented. He not only made things work in the lab, using whatever materials were at hand, but also was an accomplished musician, a lead guitar player who wrote all his own music. His skill and inventiveness on the job were invaluable. It was Don who was largely responsible for making the positron beam in Bldg. 480 operational. Whatever the situation, he was always there to rely on. We shall miss him very greatly."

Becker, who lived in Patchogue, is survived by his son Peter Coburn Becker, a sister Judy Becker Sweet, a brother Thomas, and his former wife Barbara. — Liz Seubert

IBEW Meeting

Local 2230, IBEW, will hold its regular monthly meeting on Monday, January 22, at 6 p.m. in the Knights of Columbus Hall, Railroad Avenue, Patchogue. The agenda includes regular business, committee reports and the president's report.

C/W Dance

Registration is now taking place for the next session of eight weeks of beginner, intermediate and couples dance classes sponsored by the BERA Country/Western (C/W) Dance Club. The session is planned to begin on Tuesday, January 23, but what classes will be held and how much they will cost depends on the response. So, if you intend to participate, call Marilyn Johnson, Ext. 2546, as soon as possible.

Let's Dance

The BNL Ballroom, Latin & Swing Dance Club will sponsor the following:

Do the Hustle!

Advanced beginners are invited to do the hustle and merengue during eight 1-hour lessons on Wednesdays at 5:30 p.m. beginning January 31 through March 20. At 6:30 p.m., advanced-beginner mambo and tango will be offered, and, at 7:30 p.m., intermediates may learn the cha-cha and fox trot.

Held in the North Ballroom of the Brookhaven Center, the classes are open to all BNL employees, retirees and on-site contractors, and their families and friends. If 40 people sign up for each class, the cost is $25 for each eight-week class.

To register or for more information, call Marsha Belford, club president, Ext. 5053; or Ron Ondrovic, vice president, Ext. 4553.

Be Social Soon

On Saturday, January 27, at 8 p.m. in the North Ballroom of the Brookhaven Center, all are invited to waltz, tango, fox trot, etc. the night away at the next informal social.

The suggested donation of $1 per person goes to the club's CD music fund. For more information, call John Millener, social chairman, Ext. 3853.

Send a Love Note to Your Valentine

Is there a special message you'd like to send to your valentine? Are you looking for a valentine? You can have your Valentine's Day message printed in the Brookhaven Bulletin on February 9.

Send your 15-to-20 word "love note" to the Bulletin, Bldg. 134, by noon on Friday, February 2. Use a Sales & Notices Bulletin classified ad form, but mark it "Valentine's Day." You must sign your name and include your life number and extension, but your name will not be printed unless it is clearly part of the message. Copy must be deemed tasteful. All "love notes" will be accepted at the Bulletin's discretion. Only one message per employee please.

The BNL Ballroom, Latin & Swing Dance Club
presents its

Heart to Heart

Valentine's Dinner-Band Bash

Friday, February 9, 1996, 6 p.m. to midnight
Brookhaven Center
Brookhaven National Laboratory, Upton, New York

dance to the Big Band sound
of the 7-piece Mike Carubia Swing Orchestra

schedule of events:

❤ ***6-7:30 p.m. Pre-Bash Buffet Dinner***
tossed green salad, pasta primavera
peppered loin of veal, grilled Atlantic swordfish,
green beans amandine, garden-medley vegetables
wild & white rice, rolls & butter

❤ ***6-11 p.m. Cash Bar***

❤ ***8 p.m. to midnight Big Band Dancing***

❤ ***8-8:45 p.m. Dessert Table***

❤ ***door prizes***

Tickets: $20 per person
must be purchased in advance

For tickets, contact:

❤ Rudy Alforque, Ext. 4733, Bldg. 817
❤ Tony Baltz, Ext. 3792, Bldg. 510A
❤ Jean Logan, Ext. 4391, Bldg. 555
❤ Dick Savage, Ext. 4640, Bldg. 120
❤ Nedy Santiago, Ext. 3402, Bldg. 197C
❤ Gail Schuman, Ext. 7985, Bldg. 421

no tickets available at the door

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.

SCIENTIFIC RECRUITMENT - Doctorate usually required. Candidates may apply directly to the department representative named.

SCIENTIST - Trained in physics, chemistry or electrical engineering, with several years' experience in safeguards/arms-control verification. Technical knowledge is required in areas of nuclear materials safeguards, nonproliferation and arms-control verification methods. Position involves development and analysis of safeguards and arms-control systems to support international safeguards negotiations, treaties and agreements. U.S. citizenship and valid DOE "Q" security clearance are required. Contact: Joseph Indusi, Department of Advanced Technology.

SCIENTIST - Trained in physics, chemistry or electrical engineering. Candidates should have expert knowledge in spectral signatures of toxic chemicals, good understanding of the turbulent atmosphere on laser and signal propagation, and keen interest in signal processing and software integration. Ability to use commercial signal processing software, such as pattern recognition and neural networks, is desirable. U.S. citizenship and ability to obtain a DOE "Q" security clearance are required.Contact: Carl Chen, Department of Advanced Technology.

POSTDOCTORAL RESEARCH ASSOCIATE - Trained in physics or electrical engineering. Specialization in nonlinear optics and Optical Parametric Oscillator (OPO)/Optical Parametric Amplifier (OPA) applications in frequency-tunable pulsed-laser systems is required. Hands-on experience in pulsed-laser systems, including Nd:YAG and Ti:sapphire, is desirable. Expertise should also include use of various pump-laser sources for the OPO/OPA system. U.S. Citizenship and ability to obtain a DOE "Q" security clearance are required.Contact: Carl Chen, Department of Advanced Technology.

POSTDOCTORAL RESEARCH ASSOCIATE - Trained in particle physics, with skills and abilities in readout electronics and data acquisition, and experience in analyzing data. BNL is involved in the ATLAS experiment at the LHC at CERN. The successful candidate will participate in BNL's major responsibilities for the liquid-argon calorimeter and the cathode-strip muon chambers. Contact: Michael J. Murtagh, Physics Department.

POSTDOCTORAL RESEARCH ASSOCIATE - Trained in materials science, with experience in the study of corrosion passive-oxide films and electrochemical behavior of metals and alloys using surface analytical techniques, to study fundamental aspects of corrosion in the Materials Science Division. Contact: Hugh Isaacs, Department of Applied Science.

Motor Vehicles & Supplies

95 MUSTANG GT - black, fully loaded, 5-spd., 9.8k mi., excel. cond., $18,000. Pat, 878-9117.

95 TRAVEL TRAILER - Sunline Solaris, 30', sleeps 8, used only 4 mos., excel. cond., asking $15,500. Mark, Ext. 4898 or 369-0793.

91 MERCURY CAPRI XR2 - conv., red, turbo, loaded, 53k mi., excel., $6,500. Ed., Ext. 5360 or 477-8117.

90 HONDA CIVIC DX - 4-cyl., 5-spd., 3-dr. h/b, ac, new tires, 91k mi., excel. cond., $5,500. Mark, Ext. 4515 or 728-5601.

89 CHEVY CORSICA - 4-dr., 4-cyl., a/t, cruise, tilt, high mi., excel. cond., $1,900 reduced. Gabriel, Ext. 2707 or 341-1087.

88 MAZDA 323 - p/s, p/w, ac, fm cass., high hwy. mi., no rust, runs well, $1,250. Brett, 727-5956.

86 FIREBIRD - a/t, V-6, ac, T-top, hwy. mi., runs well, asking $1,200. Ext. 3827 or 878-1617.

86 CAMRY - 145k mi., runs well, some rust, good int., maint. well, owner moving, must sell, $1,100. Dave, Ext. 2686.

85 NISSAN 4x4 PICKUP - many extras, excel. cond., must sell. Don, Ext. 5329 or 422-7415.

85 PONTIAC 6000 - 4-dr., a/t, o.d., V-6, new steering, brakes, shocks, alt., tune-up, runs well, $1,350. Larry, Ext. 2796.

85 MERCURY GRAND MARQUIS - very clean, runs well, orig. owner, $1,250. Ext. 2337.

85 VW JETTA GL - a lot of extras, excel. cond., must see, $1,700 obo; '82 Charger, dark blue, v.g. cond., must see, $550 obo. Marc, 924-0960.

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

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.

ENGINE - 302, '82 rebuilt '91 Mustang rear, GT40 spec. heads, headers, specialty rims, truck tires, 5-lug Ford. Ed, 661-9155.

TIRE - 1, Firestone, Firehawk FTX, P195/50R15, 600 mi., orig. $95, now $25. Vic, Ext. 7016 or 543-7674.

Boats & Marine Supplies

GAMEFISHER - 7.5-h.p., good cond., $375. Ben, 698-6436

Furnishings & Appliances

BEDROOM SET - full-size bookcase headboard, footboard & frame, double dresser, chest, 2 nightstands, solid walnut, $50. Ken, 281-5565.

CHAIRS - Ethan Allen, 1 yr. old., Windsor-style, 4-side solid cherry, orig. $199 ea., now $100 ea.; 2 black arm, orig. $249 ea., now $150 ea. Eric, Ext. 5875.

CHEST OF DRAWERS - w/mirror, $30. 929-3867.

CHINA CLOSET - solid cherry wood, like new; full silverware set; rolling bar, solid mahogany w/barstools, make offers. TJ, 744-3308.

DINING TABLE - 3½'x5½', chrome & glass, 4 chairs, $125. 696-2398.

DINING TABLE - hardwood, 4 chairs, China cabinet, $550; color TV, $50; washer/dryer, $50; other appliances, tools, more. 689-7462 eves.

DRAPERIES - insulated, 120"w x 84"l, champagne color, like new, orig. $250, now $75. Kristine, 281-7873.

MATTRESS - twin, boxspring & metal frame, almost new, $75. Mike, Ext. 7941.

REFRIGERATOR - Westinghouse, large side-by-side, almond, mint cond., $200. 689-7963.

REFRIGERATOR - Welbuilt, 11 cu. ft., 1 yr. old, like new, $125; sewing machine, Brothers commercial, w/table, $175. Ben, 698-6436.

SOFA BED - Castro convertible, brown, like new, $150. Steve, Ext. 4211.

WASHER - Kenmore, heavy-duty, med.-size, v.g. cond., $75; Sharp Carousel II microwave, needs work, asking $20. Dave or Ed, 286-5077.

WASHER - Kenmore, 10 yrs. old., runs, $35. Tom, Ext. 7287 or 744-4535.

Sports, Hobbies & Pets

EXERCISE STATION - Gravity Edge, multipurpose, 1-piece, orig. $300, sell for $190. Ext. 5214.

EXERCYCLE - $40; shop manual for '93 Chevy S-10 pickup, $30; bike helmet, adult, new, $15. Joe, Ext. 2898.

FISH TANK - 30-gallon, $20. 929-3867.

GOLF CLUBS - Cleveland VAS irons, steel shaft, 3-SW, 3, 4 wood, freestanding bag, $450. Phil, Ext. 4421.

ICE SKATES - girl's, size 8-9, single blade, used once, $12. John Trunk, Ext. 3406.

JACK LALANNE MEMBERSHIPS - 2, lifetime, anywhere in U.S., $10/mo. maintenance fee, $500 or make reasonable offer. Joann, 584-3830.

KARATE GEAR - child's, gloves, $15, helmet, $20, uniform, $5; Atomic Tirolia bindings, 120cm, $10; Klepp downhill skiis, Salomon bindings, 130cm, Ext. 7849.

PIANO - upright, good cond., dark tigerwood finish, $400. Bob, Ext. 2710 or 467-4222.

PING-PONG TABLE - good cond., best offer over $100. 286-3742.

SKIIS - Hart, 180cm, w/Soloman bindings, $100; Soloman ski boots, child's size 6, $40. Mark, Ext. 4289.

Audio, Video & Computers

COMPUTERS - Gateway 2000 486DX33, 4MB RAM, 3½" floppy, 170 MB HD, keyboard, MS mouse, $750; 386 DX40, 115 MB HD, $400. Ext. 5080 or 751-1884.

COMPUTER - 386DX, 40 MHz, 4 MB RAM, dual floppy drives, 5¼" & 3½" SVGA, mon., 540 MB HD, asking $600. Frank, Ext. 2022 or 399-3446.

COMPUTER - 386, 2 MB RAM, 16 MHz, 40 MB HD, mouse, $100; Seagate 106 MB HD, $30; voice recog. software, $20; Nintendo games. Ext. 7849.

COMPUTER - Commodore 64, 2 drives, printer, mon., software, Compute magazines, $300. Ext. 3804.

CD ROMS - multimedia, Microsoft Golf, Microsoft Home Complete Baseball for PC, practically new, $20/ea. Dina, 325-9231.

MONITOR - Samsung, 12" diag., mono., model SM-12SFAT, swivel base, manual, $30; Epson printer, LQ1000, $80. Bill, 722-4489.

Miscellaneous

CHILD'S CAR SEAT - old but sturdy, $10. Janet, Ext. 2345.

COAT - wool, Harve Bernard, size 8, choc. brown, best offer. 286-3742.

DIAMOND RING - 0.567 ct., VS1 grade, G color, 4 prong, solitaire, all papers, $2,500 firm. Chris, Ext. 4216.

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

ENCYCLOPEDIA - Grolier, complete set w/yearbooks up to 1995, excel. cond., orig. $1,200, asking $300. Frank, Ext. 2022 or 399-3446.

TICKETS - 2, Metropolitan Opera, balcony, Sat., 2/3, *Barber of Seville*; Sat., 2/17, *Cosi Fan Tutti*. Arnie, Ext. 2606.

TICKETS - 2, Washington Ballet, Joyce Theater, Sat., 1/27, 8 p.m., $16/ea., includes discount parking coupon. Joyce, Ext. 3801 or 289-5770.

WHITEBOARD - director's, w/doors, corkboard, flip charts, exterior simulated oak, 48"x44", $40. Vic, Ext. 7016 or 543-7674.

Lost & Found

LOST - 30" diamond-cut gold necklace, rope, reward. Mary, Ext. 7143, or Linda, 475-3407.

Wanted

NYC APARTMENT - studio or efficiency for NYU grad. student, responsible, nonsmoker, female. Rakowsky, Ext. 5298 or 929-8770.

BOXES - 24"x10"x10", 24"x10"x8½", 20"x10"x10", 20"x10"x8½", 16"x10"x10", 16"x10"8½". John Hale, Ext. 4482 or 7127.

END TABLES - 2, coffee table, small bar. Mike Sanchez, 395-6026.

LEGOS - used, to buy for 6 yr. old. Pam, Ext 5752

RAFTERS - experienced, Upper Yough River, May 3-5, $179 includes hotel, lunch, rafting, 3 openings left. Sue Norton, Ext. 3492.

ROTOTILLER - Mantis mini tiller, gas-powered. John, Ext. 7671 or 765-1299.

SKIERS - to ski Windham, 2/7, $44/bus & lift, send payment to Augie Hoffmann, Bldg. 510C.

TRAVELERS - for a guided tour of Sicily in the spring. Janet , Ext. 4049 or 744-8087 eves.

In Appreciation

God bless all the young artists whose work graced the Bulletin issue of December 22. Your work was very heart-warming. — Pat & Mary Rose Andrisani

Farewell Gathering

RETIREMENT PARTY - for Barney McAlary, Fri., Feb. 2, 5:15 p.m., Brookhaven Center, RSVP to Georgia Irving, Ext. 7957.

Ads left out of this issue due to lack of space need not be resubmitted to appear in the next issue.