BROOKHAVEN BULLETIN
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BROOKHAVEN NATIONAL LABORATORY

Line-Item Status Recommended for HFBR Instrumentation

At 23 years of age, BNL's High Flux Beam Reactor (HFBR) has maintained its youthful vigor: Because of its innovative design, the HFBR's performance, as measured by neutron flux, has been matched by only one other research reactor presently operating in the world, at the Institut Laue-Langevin, Grenoble, France.

Over the years, however, the HFBR's 15 instruments — which use the reactor's neutron flux for up-to-the-minute research about such hot topics as high-temperature superconductivity — have aged much less gracefully.

"Eight of these are original instruments," explains Senior Physicist John Axe, head of the HFBR's scientific program, "and they have been so well used that their gears are wearing out."

BNL's search for funds to rebuild the old and construct new instruments began eight years ago. Last Friday, June 17, a Department of Energy (DOE) committee concluded at the end of its two-day review that the $20 million requested for HFBR instrumentation deserves line-item status in DOE's budget request to the President for fiscal year 1990.

If this funding request is made a line item in the President's budget proposal to Congress, and if this item gets Congressional approval, then up-to-date instruments can first be used at the HFBR beginning in 1992.

The conceptual design report for the upgrade calls for the building of six new instruments and the overhaul of seven existing ones. No conventional construction will be necessary.

"Once upgraded, these instruments will give us higher resolution and faster results — four times the performance for one-tenth the cost of building a new research reactor having this performance by design," explains Axe. "As upgrading the HFBR's instruments is highly cost effective and not at all controversial, as building a new reactor would be, it would be a shame not to be able to use the HFBR to its optimum."

In front of the High Flux Beam Reactor (HFBR), members of the Department of Energy's (DOE) review committee gathered with BNL'ers between discussions about BNL's conceptual design for upgrading the HFBR's instruments: (from left) Sylvester Sims, DOE; David Price, Argonne National Laboratory; BNL Deputy Director Martin Blume; George Duda, DOE; James Rhyne, National Bureau of Standards; HFBR Scientific Program Head John Axe, BNL; William Kamitakahara, DOE; Chalmers Frazer, DOE; George Basbas, National Science Foundation; Benno Schoenborn, BNL; Hartmut Zabel, University of Illinois; John Hayter, Oak Ridge National Laboratory; Claude Herrick, DOE; Beverly Hartline, Continous Electron Beam Accelerator Facility; Roger Pynne, Los Alamos National Laboratory; John Everhart, DOE; Gustavo Vazquez; DOE Brookhaven Area Office; and Amit DasGupta, DOE Chicago Operations Office.

—photo by Roger Stoutenburgh

After World War II, the U.S. first began using neutrons, liberated from their atoms during fission in nuclear reactors, as a tool to investigate crystallographic and magnetic properties of materials. By the end of the 1970's, however, it was first reported that the U.S. was falling behind Western Europe in maintaining and developing the instrumentation necessary for neutron scattering.

In 1985, the National Academy of Sciences (NAS) ranked the need for new and improved HFBR instrumentation as the nation's first priority to upgrade materials science facilities. Number one on the NAS's list of new materials science facilities was the Advanced Neutron Source (ANS), a research reactor now being designed for Oak Ridge National Laboratory, to come on line around the year 2000.

Axe explains, "By upgrading the HFBR's instrumentation, not only can we economically expand and improve the use of BNL's research reactor and its user community, but we can also undertake much of the needed research and development for ANS instrumentation."

— Marsha Belford

Environmental Protection at BNL

Part III: Cooperating Today to Protect Tomorrow

The last in a three-part series, this article explores the ways that all BNL employees and visitors can help minimize future problems with hazardous materials.

"If we do the first job properly, we don't need to worry about the second," said Len Emma. He was talking about the functions he oversees as head of the Hazardous Waste Management and Emergency Preparedness Section of the Safety & Environmental Protection Division (S&EP).

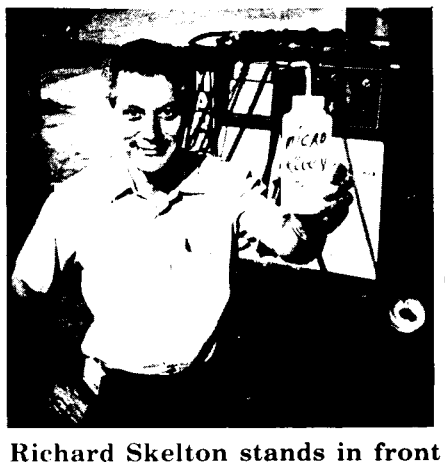
In other words, if hazardous material is disposed of properly, no emergencies should arise.

At BNL hazardous materials can be either radioactive, nonradioactive or a mixture of both. There are many good reasons for wanting to avoid emergencies in disposing of these materials.

First and foremost is the damage they cause to the environment — damage that has the potential to harm human, animal and plant life, and that can take many years and many dollars to correct. Further, the handling, storage and disposal of hazardous material is highly regulated at county, state and federal levels.

In fact, BNL would like to be better than the law allows. For this reason, BNL follows the ALARA principle. ALARA stands for the concept "as low as reasonably achievable." In practice, ALARA means striving to be better than mere compliance with the law.

Hazardous wastes are not only costly to the environment, but they are also a drain on the Lab's funding for research. Through 1990, BNL expects to spend over $17 million, funded through the Department of Energy's Office of Energy Research, to correct problems that evolved under years of less stringent regulations.



Roger Stoutenburgh

Richard Skelton stands in front of the steam cleaner in which the biodegradable detergent Micro Kleen is used in lieu of trichloroethane (TCA) to degrease metal components, except those made of aluminum. For suggesting that Micro Kleen be substituted for TCA, Skelton received a $250 award from the Employee Suggestion Program (ESP). Anyone with a suggestion for minimizing hazardous waste should follow Skelton's lead and submit the idea to the ESP. At the least you'll receive a "thank you" mug, and you might receive monetary thanks for helping protect the Lab's environmental future.

Even when disposal is done properly, the costs are high. At BNL, all hazardous wastes are processed through the Hazardous Waste Management area (see picture story on page 2), and most must be transported to licensed facilities for disposition.

Because of the controversies associated with the disposal of both radioactive and nonradioactive hazardous wastes, licensed treatment and disposal facilities have become quite limited. Currently, BNL must ship its low-level radioactive wastes to Hanford, Washington — a long and costly journey.

Burial costs for radioactive wastes have increased dramatically. In 1984, they were $5.41 per cubic foot; by 1987 the cost had risen to $10.52, and it is expected to reach $13.50 this year.

Disposal of nonradioactive hazardous waste is also expensive. Incinerating a single drum full of waste approaches $250; one truckload runs about $60,000.

Another concern is the disposal of hazardous mixed waste, which contains both a radioactive component and a chemical component. "The disposal options for this waste have been virtually eliminated," said Lawrence Day, Group Leader for Hazardous Waste Management. This situation forces BNL into long-term storage of this material on site, further restricting the available storage space.

Long-term liability is another factor. As Day explained, "A generator of hazardous waste material is liable for that material indefinitely." If waste sent to a land disposal site by BNL begins to leak 20 years from now, the Lab could be assigned substantial liability for any environmental cleanup costs incurred.

For ALARA to be effective, cooperation is required from each of the Lab's 3,200 employees and 1,800 guests and visitors who use the facilities annually. Day recommends several simple steps that each person can take, which ultimately could reduce the Lab's amount of hazardous waste:

- **Plan** — Order only what is needed. Savings from placing large orders could later be eaten up by the costs of disposing of the unused material.
- **Substitute** — When a safer or less toxic product is substituted for one currently in use, that's also practicing ALARA.

For example, thanks to a suggestion by Richard Skelton, a Technical Supervisor in the Alternating Gradient Synchrotron Department, the biodegradable detergent Micro Kleen is now being used in lieu of the toxic solvent trichloroethane (TCA) to degrease metal components, except those made of aluminum. The detergent can be discharged into the sanitary sewage system, and the costs of off-site disposal of TCA are eliminated.

- **Recycle** — Several enterprising efforts have been made along this line. For example, David Comstock, who is in charge of the stockroom in the Chemistry Department, initiated a system of recycling surplus chemicals. Each year, he goes through the Chemistry laboratories to determine

(Continued on page 2)

Coming Up

Robert C. Gallo, Chief of the Laboratory of Tumor Cell Biology at the National Cancer Institute, will deliver two lectures on "Late Twentieth-Century Viruses and Their Role in Cancer and AIDS," as the speaker for the 17th George B. Pegram Lecture Series. The two-part lecture will take place on Wednesday and Thursday, July 13 and 14, at 8 p.m. each evening, in Berkner Hall.

Hazardous Waste: How the Experts Manage It

In World War II, an area in the southeast corner of the site was used by Camp Upton for the storage of explosives, making it, in military parlance, an "igloo area."

Though often still called the igloo area, today the site is officially BNL's Hazardous Waste Management (HWM) area, where chemical and radioactive wastes generated around the Laboratory are brought for storage until they can be transported off site for disposal.

That large responsiblity falls to HWM Area Supervisor Paul Edwards and his staff of nine. They are experts at handling almost every kind of hazardous waste because, as Edwards explained, "While we don't have a steady-state waste stream like industry, or generate as much waste, we do handle every chemical you can think of sooner or later."

To reduce the volume and hazard of waste materials, HWM personnel use evaporation, compaction, chemical treatment and, to a limited degree, incineration. Ultimately, most wastes are shipped to disposal facilities off site. Some of these activities are shown in the accompanying photos.

Responding to requests received at the HWM area, (rear, from left) Michael Clancy and Warren Voegelin make a pickup at one of the Lab's almost 30 designated hazardous waste accumulation points. All waste must be picked up within 90 days of the request.

If possible, chemical and radioactive wastes are sorted at each stop. The design of this stop, the Lab's newest accumulation point, allows for presorting. This point serves the Department of Nuclear Energy's (DNE) Radiation Effects and Neutral Beam Test Facilities. The initials of the building's name — the Brookhaven Environmental Confinement Kinetic Equipment Repository — form the acronym BECKER, in honor of DNE's Walter Becker (kneeling, left), who was instrumental in getting this building in place, and who confers here with Lawrence Day, S&EP's Group Leader for Hazardous Waste Management.

The building is a significant part of the Lab's effort to handle hazardous waste and is equipped with many safety features, including fire detection and explosion relief panels. The Alternating Gradient Synchrotron Department is now installing a similar unit.

—photos by Roger Stoutenburgh

All requests for pickup of hazardous wastes are made on a special form, which is reviewed for completeness and accuracy, and to determine if and how HWM should handle it. A copy of each request goes to Jane Seybolt (seated), who enters it into a data base for reporting to New York State's Department of Environmental Conservation. As the waste moves along the trail from pickup to disposal, each movement is recorded in the data base. Also in Seybolt's office are (from left) Kenneth Dobreuenaski and Eric Klug, who have come to the main offices in Bldg. 445 from Bldg. 801/811, headquarters for the Aqueous Radwaste Treatment area, and Paul Edwards.

Moving a radwaste package within the HWM area are (from left) William Sells, James Pedersen and Edward Walsh. In the panorama behind them are (clockwise from left) the chem house where hazardous chemicals are stored until they can be transferred to an outside, licensed disposal firm; the building where PCBs may be stored for limited periods before they are sent off site for disposal; army surplus freight cars and other containers used for bulk storage of HWM supplies; the building where radioactive wastes are compacted for storage in 55-gallon drums, for transport to a disposal facility in the state of Washington in reinforced concrete containers with walls ranging from 6 to 17 inches thick.

The newest building at the HWM area is the drum storage facility, where hazardous chemicals are stored until they can be treated on site or transferred to an outside, licensed disposal firm. Here, as Michael Clancy brings in another drum, Lee Snead keeps track of the materials that Warren Voegelin, wearing protective clothing, is adding to a drum.

Environmental Protection (Cont'd)

if materials are needed, then puts those that aren't back on the shelf for others to use — at no charge.

In the Central Shops Division, an oil recovery system has been purchased to recycle oils, reducing the cost of new oil and minimizing off-site treatment or disposal costs.

Day also expects to see significant savings from his work with William Chaloupka, Plant Engineering's (PE) General Supervisor for Operations. They have devised a scheme for recycling PE's waste vacuum oils by incorporating them in the fuel used at the Lab's Central Steam Plant.

• **Segregate** — This technique is particularly effective for reducing radioactive mixed wastes. It also permits many waste chemicals to be recycled.

Along these lines, Gerald Strickland, safety coordinator for the Department of Applied Science (DAS), initiated a checkout sheet to be completed by DAS researchers who are leaving the Lab. By accounting for their materials this way, said Day, "We don't end up with unknowns and their associated disposal problems."

Due to the nature of the Lab's research and its general operations, hazardous materials will always be a part of the Lab scene. But by carefully monitoring the environment, by following regulations and by encouraging the entire BNL community to practice ALARA, the Lab can minimize the environmental and monetary costs of hazardous waste management. — Anita Cohen

IBEW Meeting

Local 2230, IBEW, will hold its regular monthly meeting on June 27, at 6 p.m., in the Knights of Columbus Hall, Railroad Avenue, Patchogue. On the agenda will be regular business, committee reports and the president's report.

Brookhaven Highlights

The latest edition of the Brookhaven Highlights, which focuses on the Laboratory's activities for 1986 and 1987, will be distributed shortly to all employees. Additional individual copies are available through the Public Affairs Office, Bldg. 134. Larger quantities should be ordered through the Technical Information Division, Ext. 5068, as BNL report number 52110.

Credit Union Note

Members of the Teachers Federal Credit Union (TFCU) will be able to use the 24-hour automated teller machine (ATM), being installed at the Cafeteria by Barclays Bank, when it comes on line. The ATM will be connected to the New York Cash Exchange (NYCE), to which TFCU belongs. TFCU members may apply for NYCE banking access cards at the TFCU branch office in Bldg. 179.

Local Users Group

The next meeting of the Upton Local Users Group (LUG) will be on Wednesday, June 29, at 11 a.m., in Room B, Berkner Hall. There will be a presentation and demonstration by IBM on Structured Query Language/Data Systems (SQL/DS).

All computer users are welcome to attend. For more information, call Zohreh Parsa, LUG Chairperson, Ext. 4748.

On Site

For the next few weeks, as you drive around site, you may pass over rubber hoses attached to apparatus on the side of the road. This is counting equipment, being used by the Facilities Planning Group in the Plant Engineering Division, to gather data for a study of the Laboratory's traffic flow. It will be moved to various locations to assure a complete picture of vehicle activity on site.

It's All Part of Being a Professional

As a junior in high school, Crystal Price visited BNL with her chemistry class. Seven years later, she's back, as an Affirmative Action Intern in the Plant Engineering Division.

In the interim, she earned her bachelor's degree in Mechanical Engineering from Lafayette College in Easton, Pennsylvania, in 1987, and reached the rank of Second Lieutenant in the Army Reserve.

Price, a 23-year-old from Port Jefferson, began working as a facilities engineer in March, designing sprinkler, heating, ventilation, air conditioning and plumbing systems for BNL buildings. She is currently working on three projects, including a fire protection and sprinkler system for the Brookhaven Center.

"I'm here working, learning and growing," says Price. "Fresh out of school, I'm working with very experienced people and benefiting from their insights. You can learn all the theory, but when it comes to applying it, that's not in the book."

In addition to designing systems, Price is involved in selecting products, estimating costs, doing field investigations and creating engineering drawings with AutoCAD, a computer-aided design program that Price learned to use while at BNL.

Price plans to continue studying while working full time and serving in the Army Reserve.

"I want to take courses to keep my skills sharp," says Price, "and prepare for the Professional Engineers exam to earn my professional license."

As a platoon leader at the Rocky Point Reserve Center, Price is responsible for assuring that her 40 troops receive the appropriate training. She should earn her first lieutenant's bar next year and her captain's bars in 1991.

Currently, there are four Affirmative Action Interns at the Lab. In addition to PE, they are assigned to the Biology and Medical Departments, and the Contracts and Procurement Division. The program is run by the Affirmative Action Office.

Roger Stoutenburgh

Crystal Price

Price says her six-month appointment at BNL is "a great opportunity. I like responsibility. Whether it is in engineering or the Army, it's all part of being a professional."

— Alexandra Biesada

[*Biesada is a summer student in the Public Affairs Office.*]

Lead Affects Drinking Water

About one-quarter of the Laboratory's drinking fountains have been taken out of service because the drinking water has been found to contain lead at levels that exceed the New York State (NYS) standard of 25 parts per billion.

Extensive sampling of the site's drinking water by the Safety & Environmental Protection (S&EP) Division, in conjunction with the Plant Engineering Division, has determined that the site's drinking water, as it comes from the supply wells, meets NYS standards.

So where is the lead coming from?

Elevated lead in drinking water is usually linked to the use of lead pipe or lead solder in copper pipe. If the drinking water is corrosive, it has a tendency to dissolve the metal with which it is in contact, which may accelerate the leaching of lead into drinking water. Even waters with relatively low corrosivity can cause lead to be dissolved if the water is allowed to sit in the plumbing undisturbed for at least six hours.

Though BNL's water is only minimally corrosive and is treated to make it less so, tap water may still contain lead for the reasons cited above. If allowed to run for several minutes, however, the water from faucets meets NYS standards.

But the water fountains are a different story: First, the flow in water fountains is lower than from taps; second, the water may sit in the fountains pipes and reservoirs for long periods between use. These two factors permit the lead to build up beyond NYS standards, in some cases.

Thus, 70 fountains have been put out of service while studies continue to find a solution to the problem. Several new fountains have been bought and will be tested soon to determine if replacement of the fountains is the solution.

Robert Casey, Head of S&EP, and Laura Sbarra, Head of the Occupational Medicine Clinic, emphasize that it is unlikely that any employees have accumulated significant quantities of lead as a result of drinking water from the affected fountains.

As Casey explained, "Although the water in these fountains has lead concentrations above the state limit, this water normally represents only a portion of a person's drinking water intake. In addition, lead is a common element in the food supply, which, in most cases, constitutes a higher source of lead intake than water does. For these reasons, BNL safety and health personnel have not viewed the lead in drinking water as a major problem."

For more information, contact the S&EP Representative for your department or division, or the Clinic.

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Tennis

Annual Tournament

The annual BNL tennis tournament — men's and women's singles and doubles, plus mixed doubles — will begin Saturday, July 30. Sign-up will be at the BERA Sales Office in Berkner Hall, starting today, June 24. The cost is $2 per person per event. Last day for sign-up will be Tuesday, July 19, and the draw will be posted by Friday, July 22, both at the BERA office and the courts. Rules for the tournament will be available at BERA at the time of sign-up. Call Steve Shapiro, Ext. 3822, or Gerry Bunce, Ext. 4771, for more information.

Bus Trip to U.S. Open

Tickets for the U.S. Open bus trip on Tuesday, September 6, may be picked up at the BERA Sales Office. The trip is sold out, but there is a waiting list in case anyone who cannot use their tickets wishes to resell them.

The Park-&-Ride Exit at Exit 63 on the Long Island Expressway will be used for the trip. The bus will depart from the BNL's tennis court parking lot at 8:30 a.m. and from the Park-&-Ride at approximately 8:55 a.m.

Summer on Long Island
Vintages From the East End

What do eastern Long Island and Bordeaux, France, have in common?

Sunlight, good soil, plenty of moisture and a long growing season ... Excellent conditions for making fine wine, such as chardonnay and merlot.

Some 1,300 acres of vines are under cultivation on Long Island, with an annual production of about 25,000 cases of wine. Eastern Long Island boasts six wineries and 20 vineyards, including the following, which are open to visitors:

- **Bedell Cellars** — Route 25, Cutchogue. 734-7537. Free tours and tasting; sales. Winery open daily from 11 a.m. to 5 p.m.
- **Bridgehampton Winery** — Sag Harbor Turnpike, Bridgehampton. 537-3155. Free tours and tasting. Open Monday through Saturday, 11 a.m. to 6 p.m.; Sundays, noon to 6 p.m.
- **Hargrave Vineyard** — Route 48, Cutchogue. 734-5158. Free tours and tasting; sales. Open daily from 10 a.m. to 5 p.m. Formal tours Friday through Sunday at 2 and 4 p.m., and Monday through Thursday at 2 p.m. Group tours by appointment.
- **Lenz Vineyards** — Route 25, Peconic. 734-6010. Tours, tasting and sales; tours are $2, refundable against purchase. Saturdays, Sundays and holidays at 3 p.m. Adults only. Groups tours by appointment.
- **Palmer Vineyards** — Sound Avenue, Aquebogue. 722-4080. Free tours; tasting at 50¢ a taste with 25¢ refund against purchase. Open seven days a week 11 a.m. to 5 p.m. Self-guided tours. 18th century English bar. Children welcome.
- **Le Reve Winery** — Route 27, Southampton. 726-7555. Free tours; $2 tasting fee, refundable against purchase. Tours on the hour, daily noon to 6 p.m. Children welcome.
- **Peconic Bay Vineyards** — Route 25, Cutchogue. 734-7361. Free tours and tasting; sales. Open daily from 11 a.m. through 5 p.m. Children welcome.
- **Pindar Vineyards** — Route 25, Peconic. 734-6200. Free tours and tasting; sales. Tours every half hour, Monday through Friday 11 a.m. to 5 p.m. Saturday and Sunday 11 a.m. to 5:30 p.m.

Inside Info

Since October 1982, **Earl Blanton** has been BNL's Assistant to the Director for Affirmative Action. As Blanton retired on June 21, **Otto White** has agreed to serve as Acting Assistant to the Director for Affirmative Action until a permanent replacement is found. In addition to reporting to BNL Director Nicholas Samios in this capacity, White will maintain his responsibilities as Head of the Operational Health and Safety Section in the Safety & Environmental Protection Division.

To Your Health

Richard Miller, a dermatologist in private practice, will be the speaker at the next Health Promotion Seminar. He will discuss "Prevention and Detection of Skin Cancer," on Tuesday, June 28, from noon to 1 p.m., in Berkner Hall.

Softball

League I

Team	W	L
Six Pax	5	1
Light Source	5	1
Blue Jays	4	2
Phoubars	4	2
Bandits	3	3
Ravens	3	3
Cool 'n Gang	2	4
Sudden Impact	2	4
Cutting Edge	2	4
Magnuts	0	6

League II

Team	W	L
Phase Out	4	1
AMD Bombers	3	1
Scram	3	1
Scrambled Legs	3	1
Dirty Sox	3	2
Titans	3	2
Bombers	1	3
Medical	0	4
Moles	0	5

League III

Team	W	L
Snakebites	5	0
Survivors	3	1
Hounds & Foxes	4	2
Simply Awesome	4	2
Foul-Ups	2	2
Kidz-R-Us	2	3
Farm Team	1	5
Source	0	6

League IV

Team	W	L
Space kadets	5	1
Underalls	4	2
Sand boxers	3	2
Mudville Sluggers	3	2
Turkeys	3	3
Who Cares	2	3
Seventh Inning Stretch	2	4
Far Side	0	5

Service Awards

The following employees received service awards during the month of June:

Forty Years

Andrew Brems Jr. .... Photo & G.Arts
Daniel Stelmaschuk ..... Sup. & Mat'l.

Thirty Years

Alexander J. Elia ..... Instrum.
Edward Leitgeb ..... Plant Eng.
Albert M. Roberts ..... Physics

Twenty-Five Years

Barry S. Arbeit ..... App. Math
Thomas J. Blair ..... AGS
Henry G. Bornbusch ..... Plant Eng.
Per F. Dahl ..... Accel. Dev.
Frank DeVito ..... App. Math
Ralph C. Helmig ..... Physics
Enrique Jiminez ..... Cent. Shops
Randolph Philips .... Saf. & Env. Prot.
Harold W. Sauter ..... Physics
Joseph C. Schuchman ... Light Source
Richard J. Tache ..... Reactor

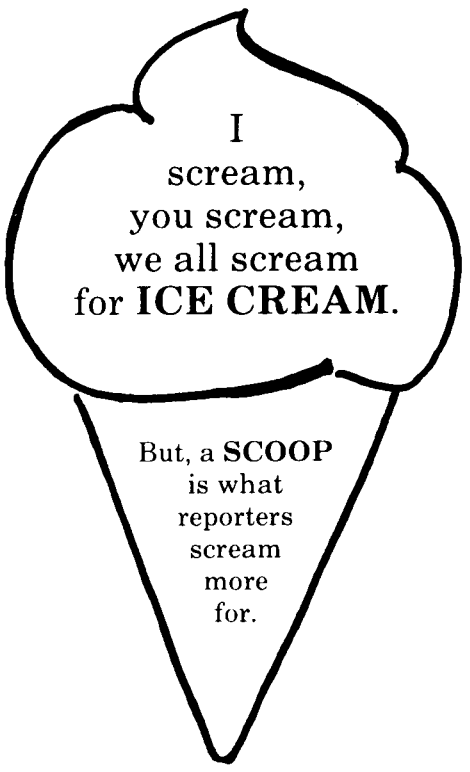
Twenty Years

Antoinette M. Fridae .... App. Science
Patrick R. Gileeny ..... Instrum.
Richard T. Imossi ..... AGS
Thomas J. Reisig ..... Sup. & Mat'l.

Ten Years

Juan L. Alvarez ..... Sup. & Mat'l.
Edward Baker ..... Physics
Paul Blacher ..... Plant Eng.
Ralph L. Brown ..... Biology
Patrick M. Calabrese ..... AGS
Gary E. Connell ..... Plant Eng.
Vanette M. DeJesus ..... Sup. & Mat'l.
Edmond J. Desmond ..... Biology
Frank Flegar ..... Cent. Shops
Louis C. Gerlach ..... Nuc. Energy
John H. Heiser ..... Nuc. Energy
Susan A. Kennell ..... AGS
David V. Kipp ..... AGS
Niels Koudal Jr. ..... Light Source
Bruce E. Laakman ..... Plant Eng.
Jo Ann LaForte ..... App. Math
Robert G. Lynn ..... Cent. Shops
Sharon M. Jones ..... Sfgrds. & Sec.
Thomas Northam ..... Plant Eng.
Richard F. Pietrzak ..... Nuc. Energy
Edward D. Sperry IV ..... Accel. Dev.
William L. Stokes Jr. ..... Accel. Dev.
Gary L. Stoner ..... Plant Eng.
Henry C. Thode Jr. ..... App. Science

Scoop of the Week



So, during the summer, the Bulletin will be trading frozen yogurt for hot tips in the Scoop of the Week contest.

If you can scoop all of the Bulletin's informed sources with a hot tip — an idea for news or a feature — and if the Bulletin publishes a story as a result, you will be awarded the Scoop of the Week — a free cone of soft-serve, frozen Columbo yogurt from the Cafeteria.

Rush your news and feature tips to the Brookhaven Bulletin, Bldg. 134, or call Ext. 5053. If your idea results in a Scoop of the Week, your name will be announced in the Bulletin, and you will receive an official certificate, redeemable any time at the Cafeteria.

Cafeteria Menu

Week of June 27

Monday, June 27

Minestrone	(cup)	.75
	(bowl)	.95
Grilled ham steak w/pineapple ring & 1 veg.		2.85
Turkey alfredo w/1 veg.		2.95
Seasonal fresh fruit plate (lite-weight)		2.25
Hot deli: Pastrami	(bread or roll)	2.85
	(hero)	2.95

Tuesday, June 28

Chicken noodle soup	(cup)	.75
	(bowl)	.95
London broil w/gravy & 1 veg.		3.10
Crusty herb-fried chicken & 1 veg.		2.95
Baked fish w/lemon butter & 1 veg. (lite-weight)		2.95
Hot deli: Chicken patty on a bun		2.85

Wednesday, June 29

Cream of broccoli soup	(cup)	.75
	(bowl)	.95
Eggplant Parmesan w/garlic toast		2.85
Chicken & mushrooms in wine sauce		2.95
Banana split cold plate (lite-weight)		2.25
Hot deli: Roast breast of turkey	(bread or roll)	2.85
	(hero)	2.95

Thursday, June 30

Chicken gumbo	(cup)	.75
	(bowl)	.95
Veal curry over rice		3.10
Stuffed green pepper w/1 veg.		2.95
Triple-dip salad plate (lite-weight)		2.25
Hot deli: Baked ham	(bread or roll)	2.85
	(hero)	2.95

Friday, July 1

New England clam chowder	(cup)	.75
	(bowl)	.95
Roast loin of pork w/1 veg.		3.05
Spanish beans & rice w/1 veg.		2.85
Fresh baked fish w/1 veg. (lite-weight)		2.95
Hot deli: Chili dogs (2)		2.85

Arrivals & Departures

Arrivals

John R. Brinker ..... Accel. Dev.
Frederic Roy Furuya ..... Biology
David J. Knoernschild ..... AGS
Timothy R. O'Connell .. Applied Math
John TeNyenhuis ..... DNE
Shin-Guang Shyu ..... DAS

Departures

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

Earl M. Blanton ..... Director's Ofc.
Joan W. Deedy ..... Chemistry
Bronislas M. Orlowski ..... Tech. Info.
Karen M. Schweikart ..... Biology
Paul Thompson ..... DAS

Classified Advertisements

Placement Notices

The Laboratory's placement policy is to select the best-qualified candidate for an available position, with consideration given to candidates in the following order of priority: (1) present employees within the department and/or appropriate bargaining unit, with preference to those within the immediate work group; (2) present employees within the Laboratory as a whole; and (3) outside applicants. In keeping with the Affirmative Action plan, selection decisions are made without regard to age, race, color, religion, national origin, sex, handicap or veteran status.

Each week, the Personnel Office lists new personnel placement requisitions. The purpose of these listings is, first, to provide open placement information on all non-scientific staff positions; second, to give employees an opportunity to request consideration for themselves through Personnel; and, finally, for general recruiting purposes. Because of the priority preference policy stated above, each listing does not necessarily represent an opportunity for all candidates. As a guide to readers, the listings are grouped according to the anticipated area of recruitment.

Except when operational needs require otherwise, positions will remain open for one week following publication date.

For further information regarding a placement listing, contact the Employment Manager, Ext. 2882.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees only.

2879. ADMINISTRATIVE POSITION - Requires knowledge and experience with IPAP operations and interrelations, working knowledge of PCs including DBase and Lotus, a basic understanding of material handling functions, and excellent oral and written communication skills. Responsibilities will include documenting operational procedures for all functions within the Division, and conducting specialized reviews and studies in order to recommend changes in policies, procedures or systems in order to improve the economy and efficiency of the Division. Supply and Materiel Division.

2880. OFFICE SERVICES POSITION - Requires excellent clerical and communication skills and a knowledge of Laboratory policies and procedures. Duties include records and forms processing, file maintenance, report and document preparation, and preparation of data input. Requires ability to obtain and maintain DOE "Q" clearance. Possession of "Q" clearance desirable. Safeguards and Security Division.

2881. PLANNER/ESTIMATOR (Architectural) - With a minimum of supervision, performs detailed work analysis, job layout and material selection; develops labor and material estimates in accordance with industry standards for architectural (carpentry, masonry, structural) repairs and maintenance. Requires considerable construction experience and proven ability equivalent to that of a Craft Supervisor. Uses professional judgment in determining performance standards appropriate to each individual job. Plant Engineering Division. (Reposting of Job #2875).

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside applicants.

2882. ENGINEERING POSITION - Requires BS in safety engineering/industrial hygiene and the ability to conduct independent safety investigations. Knowledge in broad safety areas is required, CSP and/or PE certification desirable. Will support general safety program with responsibilities for program assessments, technical assistance, hazard monitoring and construction safety. Safety and Environmental Protection Division.

2883. TECHNICAL POSITIONS (2) - Requires AAS in mechanical technology or equivalent and a minimum of 3 years' experience in construction testing and assembly of precision mechanical mechanisms. Must be able to work from blueprints and sketches and be familiar with basic machine shop practices, soldering and brazing. Vacuum experience a plus. Accelerator Development Department.

2884. ENGINEERING POSITION - Requires BS in electrical engineering with approximately 5 years' experience in the following areas: Design of precision feedback and control systems for high power rectifiers and other industrial processes, including the use of digital electronics and computer systems interface. Should be familiar with various applications of analog and digital components, and have design and analysis experience with both types of systems. Accelerator Development Department (Reposting of Job #2711).

Motor Vehicles & Supplies

81 DATSUN B210 - 4 dr., asking $1,350; 76 Ford Wagon Torino, 8 cyl., asking $390. 472-1409.

80 MONZA - 4-spd., 4 cyl., needs some work, $800; 79 Mustang, 8 cyl., p/s, p/b, a/c, am/fm cass., asking $2,000. Ext. 2175 or 399-0224.

80 HONDA CIVIC WAGON - 5 spd., am/fm cass., brown, high mileage, runs well, good tires, $1,200. 874-2875.

79 OLDS DELTA - 2-dr., sedan, $2,200. 924-2726.

79 RAMBLER ESPIRIT - excel. for transportation, new tires, $300. 924-0960 after 5 p.m.

79 DATSUN 210 - 195k mi., runs well, 5-spd., needs clutch, asking $500. Joe, Ext. 2214 or 2705.

79 DODGE TROPHY MOTOR HOME - 23', good cond., low mileage, extras. 475-1836.

79 COUGAR XR-7 - fully loaded, $1,000. Tony, 698-9276 after 6 p.m.

78 VW RABBIT - 5 spd., a/c, am/fm, new tires, excel. cond., $1,300. Mac, Ext. 4389 or 924-2348 after 5 p.m.

78 RV - 19', fully loaded, excel. cond., 38k+ orig. miles, asking $7,850, very neg. 878-8069 after 5 p.m.

78 DATSUN 200SX - 5 spd., a/c, am/fm, 2 snows, 5 reg. tires, $400. Joel, Ext. 4849 or 751-3408.

78 HONDA NC50 MOPED - good cond., easy riding, extras, $150. Frank, Ext. 4584 or 277-0464.

77 CHEVY CAMARO - 8 cyl., 350 eng., a/t, p/s, a/c, am/fm cass., new trans., asking $1,800, make offer. Ext. 5141.

77 PONTIAC SUNBIRD - 95k mi., good running cond., $600. Mark, 924-1561.

76 SUZUKI 250GT MOTORCYCLE - 10k mi., excel., dependable, $275. Ext. 7699 or 821-1435.

76 VOLVO 245-DL WAGON - 4-spd., many new parts, runs well, good cond. 289-2043.

75 PLYMOUTH VALIANT - runs well, many new parts, $400. Susanna, Ext. 3959.

73 CHEVY PICK-UP - 6-cyl., std., rusty, runs ok., $450. Henry, Ext. 2031.

72 OLDS DELTA 88 - new snows, battery, muffler, excel. running, $300. Ext. 2500 or 661-6078.

72 OLDS CUTLASS SUPREME - good running cond., new tires, $275 or best offer. Wick, Ext. 7868 or 758-6773.

70 VW and 69 GHIAS - both good engines, some body work, $300, neg. Ext. 5110 or 399-3087.

63 STUDEBAKER - 4-dr., std., w/overdrive, good restorable cond., $475. Kevin, 281-8031.

CAMPER - slide-on, 11', self-contained, gas/elec., frig., hot water, shower, must sell, $1,900, neg. Ext. 4142 or 345-3915.

TIRES - 4, Yokahama, 185/70 HR14, low mileage, 'A' traction, $75/4, Ext. 7977 or 744-2461 after 6 p.m.

CAR TRAILER - homemade, dual wheels, brakes, half finished, $200; 351 Cleveland 4-barrel heads, $300. 589-9103.

Boats & Marine Supplies

31' OWENS - 1956 mahog. double-plank hull, twin flagship 136 hp, w/fresh water flush, sleeps 6, more. $8,000 neg. Sue, Ext. 4931.

27' TARTAN - 9 sails, VHF-FM, DF/RDF, autohelm, compass, refinish top-side, many extras, documented. 669-9202 after 6 p.m.

25' LURHS - new 318 fwc and much more, new equip., $8,000. Walt, Ext. 5016 or 878-1015.

24' SEARAY - '76 fiberglass, Merc I/O, outdrive, standup head, VHF depthfinder, camperback, swim platform, sleeps 4, $12,000. 744-0093.

21' VENTURE SAILBOAT - fiberglass, sleeps 4, 3 sails, w/trailer, very good cond., $2,000. 924-5192 after 5 p.m.

19½' CORINTHIAN SAILBOAT - fiberglass w/full keel, sleeps two, o.b., etc., $3,995. Ext. 4637 or 692-8659 after 6 p.m.

18' COBIA BOWRIDER - fiberglass, 1980 75 HP Johnson Stinger, full canvas, trailer, winch, C.B., extras, $3,500. 475-7092.

17' SPORTCRAFT BOWRIDER - 1982, Merc I/O w/trailer, $3,500. 727-4036 or 724-4663 eves.

14' BLUEJAY SLOOP - w/trailer, as is $200 or best offer. Ext. 7657 or 924-2933.

SAILFISH - good cond., $250. Jim, Ext. 3372 or 821-0250.

Miscellaneous

AIRLINE TICKET - Islip to Fort Lauderdale, July 19th, $75. Duke, Ext. 2957 or 289-3586.

POOL ACCESSORIES - ladder, diving board, dia. earth, pump, vac. hose & head stabilizer. Ext. 4727.

REEL MOWER - 21" Jacobsen, $75; secretary desk, antique finish, $25. Bob Wayte, 286-0795.

LAWN MOWER - Agway, 22" cut, 3½ hp, Briggs & Stratton eng., self-drive w/bag, $125; lawn mower, rear-bagger, $75. Dan, Ext. 4987 or 698-7322.

AIR CONDITIONER - 6000 Btu/7.5A/115V, 20Wx13Hx19D, window size 38" max., asking $100. George, Ext. 3061 or 751-0894.

TV STAND - walnut, swivels, 27"x15", 10" high, $7. Pat, 744-8512.

COOLER - Thermos, 34 qt. capacity, brand new, in box, $10. Jag, Ext. 5080.

COMPUTER - Commodore VIC 20, 20k memory, tape drive, color graphics, word processing, programming guide, $40. Ron, Ext. 3887 or 286-0353.

STEREO RECEIVER - turntable, loudspeakers, together $250 or separate. Susanna, Ext. 3959.

VIOLINS - 1981 Pickering, $2,500; 1935 Heberlein, $900. 744-3744.

BEDROOM FURNITURE - 7 pieces, good cond., Mediterranean style, $400. 744-0960.

HELMET - motorcycle or scooter, adult small, excel. cond. Jim, Ext. 3372 or 821-0250.

ENGAGEMENT RING - ½-carat, $800. Frank, Ext. 3843.

Yard Sales

EAST PATCHOGUE - multi-family, Evergreen Lane, South Country Shores, June 24 & 25, Fri. & Sat. only.

MASTIC BEACH - June 25, 731 Riviera Drive. Pete, 399-2813.

Free

BLACK LAB - 5-yr-old w/papers, good with children, spayed. Ext. 4669.

70 DODGE DART - broken timing chain, reasonable cond. otherwise. Ext. 2420.

LOVABLE FEMALE DOG - great with kids. Ext. 7187 or 929-8467.

GOLDEN RETRIEVER - male. neutered, shots, singles without children. 874-2386.

Car Pools

BELLPORT/E. PATCHOGUE - vacancy in on-time 4-person car pool. Joe, Ext. 3569 or 286-9560 after 5 p.m.

Real Estate

Real Estate advertised for sale or rent is available without regard for the race, color, creed, sex or national origin of the applicant.

For Rent

BELLPORT - 4 bdrm., 3½ baths, Jacuzzi, in walking distance of bay and village, 286-0269 eves.

HUNTINGTON - 1 bdrm., l/r, eik, bath, 2nd floor, priv., no pets, avail. July 1, $450/mo. + util. Walt, Ext. 2907/2913 or 698-0576.

MASTIC - 3 bdrm. house to share, l/r, d/r, eik, den, 1 bath, laundry rm., fenced yard, clean, alarmed, 10 min. to Lab, non-smoker preferred, avail. Aug. 1, $400/mo. incl. util. Ext. 5110 or 399-3087.

MEDFORD - sunny, large, 1 bdrm. apt., l/r, eik, full bath, all appliances, w/w carpeting, priv. ent., very clean, $650 includes all. Ext. 4406 or 758-4368.

RIDGE - 2 bdrm. house, walk to lake, f/p, fenced, clean, $750 +, immediate. 589-8102 or 929-4678.

ROCKY POINT - 2 bdrm. furnished house, 2 blocks to beach, basement, $675/mo. + util. 744-1963.

ROCKY POINT - brand new, modern, 1 bdrm. apt., eik, large l/r, full bath, w/w carpet, central vac., priv. ent., no pets, $650 all. 744-2573.

SHIRLEY - new 1 bdrm. apt, l/r, eik, full bath, w/w, priv. ent., working person or couple, $575/mo. incl. util. 281-1840 eves.

SHOREHAM - clean, large, 1 bdrm. apt., kit., l/r, bath, priv. ent. working person, Aug 1. occupancy, $550 all. 744-8659.

SHOREHAM - house, rent with option to buy, 11 rms., 5 bdrms., 2 baths, 25x18 family rm., skylights, f/p, oak flrs., w/w, 1½ car gar., horseshoe driveway, SWR schools, possible m/d. 744-2573.

STONY BROOK - 3 bdrm., 1½ bath Cape, large l/r w/fp, eik, screened porch, bsmt., 1-car gar., walk to RR & SUNY, avail. July 1 or Aug 1, one-yr. lease, $1,100. 751-0453.

WADING RIVER - cozy 4 rm. apt., single working person, no pets, $450 includes all. Janet, Ext. 2345 or 929-3910.

WADING RIVER - large studio apt., full kit. & bath, priv. ent., single, working person, quiet neighborhood, near beach, $500/mo. includes utilities. 929-4465 evenings.

CANCUN, MEXICO - 2 bdrm. villa, sleeps 6-8, pool, tennis, beach, mall, all in complex, available July 30-Aug 6. 369-9091 after 6 p.m.

LAKE PLACID, NY - modern 2 bdrm., A-frame, loft, sleeps 8, fully furn., near swimming, boating, golf, tennis, hiking, & more. 757-1775 after 3 p.m.

For Sale

COMMACK - private 1¼ acre, 4 bdrm. ranch, new kit., 1½ baths, l/r, d/r, f/p, FL rm., 2-car gar., full bsmt., must see, $229,900. 543-3603.

EASTPORT - 2 bdrm., l/r, kit., bath, full bsmt., 100x120 property, good loc., close to school & shopping, beautifully landscaped, $115,000, firm. Ext. 2232 or 325-0835.

MANORVILLE - 1 acre, 175x230, located off Eastport Manor Road, Eastport School Dist., ready to build, $75,000. 821-3955.

MASTIC - 4 bdrm., new custom built home, skylights, full bsmt. w/outside ent., all new appl. 1½ baths, poss. m/d, $119,900. Ext. 5222.

MEDFORD - 4 bdrm. Colonial, fenced ½ acre, 2½ baths, FL rm., oversized garage, in-ground sprinkler, prof. landscaped, w/1 bdrm. apt., $182,000. Anne, Ext. 7814 or 475-8456.

MILLER PLACE - 3 bdrm. ranch, l/r, d/r, fin. bsmt., in-ground pool, low taxes, $155,000. Fran, Ext. 4835 or 744-4061.

MILLER PLACE - Scotts Beach, 4 bdrm. ranch, ½ acre plus, private beach community, sunroom, spa, pool, city water, $190,000. Judy, 473-6631 after 5 p.m.

NORTH PATCHOGUE - 3 bdrm. ranch, l/r, d/r w/cath. ceiling and skylights, bsmt., oversized garage, deck, fenced yard, wood stove, great loc., $139,000. Ext. 3475 or 289-5665.

RIDGE - Strathmore 2 bdrm, townhouse, 1½ baths, storage shed, low maintenance, close to Lab, $98,500. Ext. 3346 or 345-3584.

RIVERHEAD - 4 bdrm. 2-level ranch, 2 baths, possible m/d, ⅔ acre, large l/r, den, deeded beach rights, quiet neighborhood, 5 appliances, $150,000. 727-0499.

SHOREHAM - 4 bdrm., 2½ bath Colonial, located in friendly neighborhood w/lots of children, close to school, stores and recreation, selling below market. 744-0960.

WADING RIVER - 3 bdrm. ranch, foyer, l/r w/fp, d/r, eik, 2 baths, 2-car oversized garage, 10'x24' deck w/screen rm., 1 acre, SWR schools, $189,000, firm. 929-3251 after 6 p.m.

YAPHANK - 3 bdrm. townhouse condo, priv. end-unit, brick front, full bsmt., attached garage, central a/c, w/w, 5 appliances, many extras, $129,900. 924-0612.

Wanted

HOUSE - for family of 4, Aug/Sept. for 1 year, pref. SWR school dist., Per Spanne, Rad. Phys. Dept., Faculty of Health Sciences, Linköping, Sweden.

HOUSE TO SIT - free, caring, reliable, experienced, any duration, June to Sept. Jack Allentuck, Ext. 2412.

HOUSE/APT - to rent, 3 or 4 bdrms., 1½ baths, l/r, d/r, kitchen, washer & dryer, family neighborhood, end of June (914) 245-0907.

APARTMENT - in Pt. Jefferson/Mt. Sinai area, ground floor. Janet, Ext. 2345 or 929-3910.

OLD LAWN MOWERS - complete. Dan, Ext. 4987 or 698-7322.

CONSIGNMENT ITEMS - for church auction Aug. 13. Big Ken, Ext. 5110.

RIDING LAWN MOWER - wide cut. Ext. 3565 or 5334.

TRAINS - Lionel, American Flyer, accessories, any cond. brings good price. Carole, Ext. 7100 or 924-4097 eves.

CEMENT MIXER/WET SAW/BOBCAT - buy or rent. Tony, 698-9274.

YARD SALE ITEMS - for Boy Scouts; sports equipment to be donated to Scout summer camp. John, Ext. 4243 or 924-3492.

POLAROID CAMERA - for use w/667 film. 751-4522.

RETURN OF LAB EQUIPMENT - Kycia/Li Group; Physics, NMR Magnet measuring device, plug-in unit, nim-bin & cables, mounted on ½ height electronic rack, Triumf ID tag on plug-in unit, unit borrowed from Physics Dept. approx. 3 months ago, unit is needed. Ext. 3783.

CAP FOR FULL SIZE TRUCK - Ginger, 472-6613 after 4 p.m.

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