BROOKHAVEN BULLETIN
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BROOKHAVEN NATIONAL LABORATORY

First Significant Royalties Netted Under New Patent Law

The first significant net royalities that were realized from the licensing of a BNL invention by Associated Universities Inc. (AUI) have been split 50-50 between the five BNL inventors and AUI.

On December 20, AUI Vice President Jerome Hudis presented John Dunn, Bill Studier and Alan Rosenberg, of the Biology Department, with equal royalty checks for their patent-pending invention, covering the cloning and expression of the gene for the bacteriopage T7 RNA polymerase.

The inventors developed a system that can be used to produce protein from almost any cloned gene. This system has potentially wide application, both in basic research and in the commercial production of proteins.

Absent from the ceremony were co-inventors and former BNLers Barbara Moffatt and Parichehre Davanloo, who will receive their checks in the mail. Joint inventors, like Biology's five, receive equal portions of their royalities percentage, and each share is private income.

Under the Dole-Bayh statute, as amended by Congress in 1984 and as reflected in AUI's prime contract with the Department of Energy (DOE), AUI has the option to take title to all inventions conceived or first put into practice by BNL employees while conducting their research at the Lab, and to license its patented inventions for commercial use.

AUI has licensed the system to 16 genetic engineering and pharmaceutical firms for use in their in-house experimental programs, and to two such firms for use in commercial applications. If any of the companies with an experimental license develop a protein product for sale, the system would be further licensed to cover its commercial use. With AUI taking title to Lab inventions and licensing them to private industry, technology can be transferred and commercialized more quickly and effectively than in the past.

"Before, technology developed at DOE labs was owned by the federal government, and DOE obtained patents on this technology in part as a way to disclose its availability to the public and, thereby, to place it in the public domain," explains Margaret Bogosian, Patent Counsel and head of BNL's Patent Office.

As Congress discovered, a result of placing such technology in the public domain was that it often was not developed into commercial products. Since companies could not secure exclusive markets for these commercial products and could not ensure that the competition would not copy the unprotected products, companies did not invest in the commercial development of much government-owned technology. This finding led Congress to change the federal patent law.

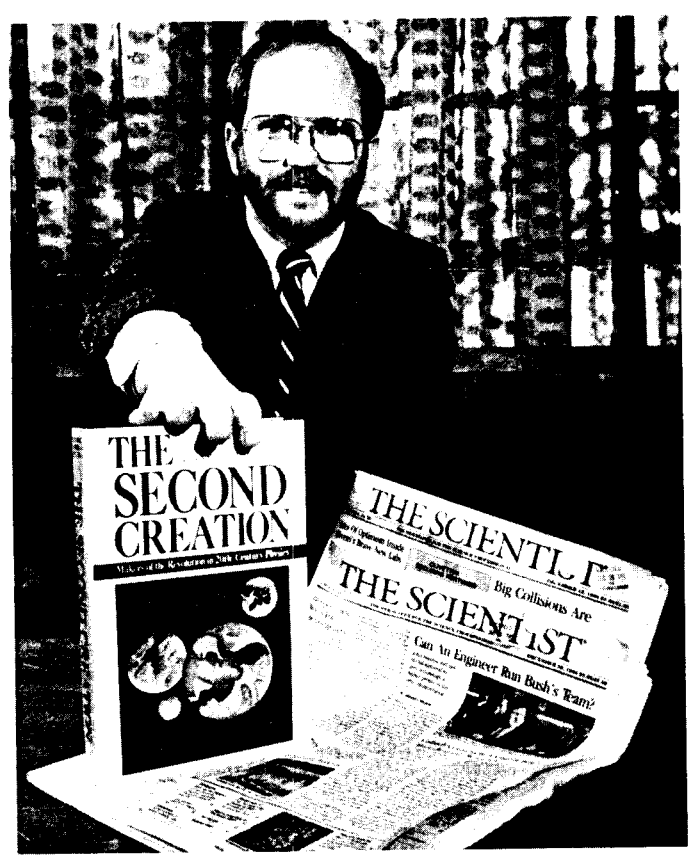
"Now," continues Bogosian, "AUI takes title to inventions of commercial interest, the BNL Patent Office secures patent protection, solicits interest in patented inventions and negotiates agreements with industry — thus protecting industry's interests and promoting technology transfer between BNL and the private sector, while returning royalties to both the inventors and the Lab."

Under AUI's patent policy, the administrative and legal costs asso-

(Continued on page 2)

Witnessing the distribution of the inventors' share of the first significant royalties from a BNL invention are: (back row, from left) Geoffrey Hind, Biology Department Chairman; Seymour Baron, BNL Associate Director for Applied Programs; Jerome Hudis, AUI Vice President for Programmatic Affairs; (front row, from left) William Marcuse, head of BNL's Office of Research & Technology Applications; Margaret Bogosian, BNL Patent Counsel; BNL inventors Alan Rosenberg, Bill Studier and John Dunn, all of the Biology Department; and BNL Director Nicholas Samios.

BNL Science From the Standpoint of History



Robert Crease

He's the coauthor of a best-selling book on 20th-century physics, a consulting editor of a well-known science magazine and an assistant professor of philosophy at the State University of New York (SUNY) at Stony Brook. And now, Robert Crease is also BNL's part-time historian.

"I'm really looking forward to working at Brookhaven," said Crease. "For years, the history of physics was only a passion of mine that I did on the side. This position gives me the opportunity to indulge that passion more systematically and to incorporate it more fully into my work in the philosophy of science."

Welcoming Crease to his new post, BNL Director Nicholas Samios said, "It is a pleasure to have a professional such as Bob Crease at BNL to help in presenting important historical, scientific research. In this day and age, it is incumbent upon us to publicize the relevance and importance of all of science."

Crease's interest in science and its history became evident while he was working on his Ph.D. in philosophy, which he earned from Columbia University in 1987. One of his first opportunities to combine the fields came in December 5, 1982, when he and Charles Mann wrote an article about BNL's ISABELLE project for the *New York Times Magazine.*

Two years later, the coauthors wrote an extensive profile of Nobel laureate Sheldon Glashow for the *Atlantic.* From the Glashow project grew their next major project, the best-seller, *The Second Creation: Makers of the Revolution in Twentieth Century Physics,* which has been translated into several languages and was nominated for a Pulitzer Prize.

(Continued on page 2)

'How-To' Workshop for Potential SSC Magnet Makers

Today concludes five days of technological orientation at BNL for representatives from the 16 industrial corporations that were selected by the Department of Energy (DOE) as potential producers of the approximately 9,600 superconducting magnets needed for the Superconducting Super Collider (SSC).

As one of the three collaborators in the design of the 55-foot SSC dipole magnet, BNL was the second to host the selected companies during the first of three phases of DOE's magnet industrialization program. Last August, BNL had shown the Lab's magnet-making facilities to representatives of 150 U.S. and foreign firms that had expressed interested in participating in DOE's program.

At the SSC technological orientation at BNL: (from left) Charles Briening, Accelerator Development Department (ADD); Arthur Greene, ADD; E. Parke Rohrer, BNL Associate Director for Management & Physical Plant; George Sintchak, Instrumentation; Vera Mott, ADD; Eugene Kelly, ADD; Roger Coombes, SSC Central Design Group; and Erich Willen, ADD.

About 8,000 of the superconducting dipole magnets designed by BNL, Lawrence Berkeley Laboratory (LBL) and Fermi National Accelerator Laboratory will be needed to guide protons around the proposed 53-mile-in-circumference accelerator. Roughly 1,600 superconducting quadrupole magnets will be required to focus the protons within the SSC into needle-fine beams.

As these magnets must be manufactured commercially, DOE established the three-phase program first to transfer the dipole magnet-making technology to companies that have experience related to magnet making and the anticipated ability to produce magnets in the quantities needed.

During the first phase, the three laboratories that designed the dipole have been holding technological orientations, during which engineers, physicists and production managers from potential magnet-making firms participate in lectures, discussions and demonstrations of the superconducting magnet fabrication processes, magnet-specification requirements, quality control and testing techniques. Participants are also provided with all the documents necessary for SSC dipole production.

While participation in the first phase of DOE's magnet industrialization program is not mandatory for firms to be considered as potential dipole suppliers, it does provide vendors with the opportunity for greater understanding of the magnet-production process. Later, DOE will award contracts on a competitive basis to several firms for participation in the next two phases: tooling and prepro-

(Continued on page 2)

SSC Workshop (cont'd)

duction, and the actual production of SSC dipoles.

At BNL this week, Eugene Kelly, head of the Production & Engineering Section of the Magnet Division, Accelerator Development Department, organized a 40-hour workshop that reviewed the eight major steps in fabricating the dipole's cold mass, the part of the SSC dipole designed by BNL, as well as how to assemble a complete dipole, another responsibility BNL will hand over to industry.

The industrial representatives had spent January 11-12 at LBL, where they were introduced to the superconducting cable for the SSC dipole developed there. In February, they will go to Fermilab, for instruction about the magnet's cryogenics and cold testing of the completed magnet.

The 16 potential magnet makers are: Alsthom, France; Asea Brown Boveri Technology, West Germany; Babcock and Wilcox, Virginia; ELIN-UNION, Austria; Fuji Electric Company, Ltd., Japan; General Atomics, San Diego, teamed with Kawasaki Heavy Industries, Ltd., Japan; General Dynamics Space Systems Division, San Diego; General Electric Company, South Carolina; General Motors Corporation, Illinois; Grumman Corporation, New York, as a team with Ansaldo Componenti, S.p.A., Italy; Hitachi, Ltd., Japan, paired with Mitsubishi Electric, Japan; Interatom GmbH, West Germany, together with Siemens, West Germany; Intermagnetics General Corporation, New York; Kobe Steel, Ltd., Japan; NOELL GmbH, West Germany; Westinghouse Electric Corporation, Florida.

— Marsha Belford

Those Nice Round Life Numbers: 19100

This is part of an ongoing series of articles welcoming new BNL employees who have been issued nice round BNL life numbers — those divisible by 100.

When Jane Belcher was assigned the round BNL life number 19100 last November 28, she had no idea that one of her first modeling assignments would be to pose for a picture for the Bulletin.

A top-ten finisher in last year's Miss Teen New York Pageant, Belcher aspires to become a model — "but a modeling career doesn't last, so I want to open a modeling school somewhere on Long Island so I can always be in the business."

To help finance a business-college education after she is graduated this June from Bellport High School, Belcher has been working five days a week, 1-5 p.m., as a clerk in BNL's Technical Information Division until May.

As a high school student trainee, Belcher got the job by participating in BNL's High School Coop Program, which is run jointly by BNL's Affirmative Action Office and Personnel Division. During the school year, the Coop Program provides half-day clerical and technical on-the-job training for students selected by guidance counselors from Bellport, Longwood and Riverhead High Schools.

Jane Belcher

"My guidance counselor suggested that I apply for the Coop Program, so I did, and Donna Dowling in Personnel recommended this job to me, so I took it," says Belcher. "I had never been to the Lab before and never worked in a library."

Working under the supervision of Madeline Windsor, Belcher assists with user services in the Technical Library, Bldg. 477. Her main duty is to make copies of the journal articles and monographs that are requested by BNL researchers. To that end, she spends a good deal of time in the library's stacks, selecting and reshelving bound journals and books.

"It's funny, but the work is just like what I do at my other job," says Belcher. Working in the stacks reminds Belcher of her job at the shoe store Fayva in Patchogue, selecting shoes for display and shelving new shoes.

Represented by the modeling agency New York Modeling Associates, the poised, petite and personable Belcher will be paid for her first modeling job in May. "I'm not tall enough for runway modeling," she says, "but I can be a print model — something I've always wanted to be."

— Marsha Belford

All photos in this issue by Roger Stoutenburgh.

Patent Law (cont'd)

ciated with patenting, licensing and protecting a BNL invention owned by AUI are first deducted from the gross royalties recieved from its licensing.

The first $100,000 of net royalties is divided 50-50 between the inventors and AUI. Of the next net $400,000, 25 percent goes to the inventors and 75 percent to AUI. The inventors will receive 15 percent of the next $2 million, while AUI gets 85 percent. Inventors share ten percent and the AUI share is 90 percent of net royalty income in excess of $2.5 million.

AUI's patent policy calls for it to distribute AUI's percentage of royalty income from its patent licensing agreements "in a manner that recognizes the best interests of the facility which developed the technology which is the source of such income."

— Marsha Belford

Service Awards

The following employees celebrated their service anniversaries with the Laboratory during the month of January, 1989:

Forty Years

Sophie P. Kostuk ..... Chemistry
Gerhard H. Tiller ..... Instrum.

Thirty Years

Gerald W. Bennett ..... AGS
John B. Laurie ..... Photo.& G.Arts
Leslie L. Lawrence .. Comp. & Comm.

Twenty-Five Years

Maurice DuBois ..... Fiscal
Joseph P. Hanson .... Photo.& G.Arts
Walter Kunnmann ..... Chemistry
Charles E. Spillett ..... Plant Eng
Eugene A. Tombler ..... AGS

Twenty Years

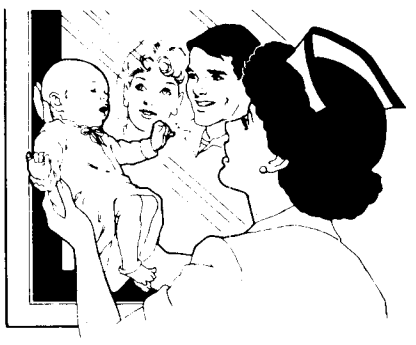
Anthony Brown Jr. ..... Plant Eng.
Stephen E. Eiseman ..... Physics
Arthur Forman ..... App. Science
Joanna S. Fowler ..... Chemistry
Henry J. Henck ..... Cent. Shops
Eddie J. Hobson ..... Plant Eng.
Leroy James ..... Physics
Alexander B. Park ..... AGS

Ten Years

James J. Briggs ..... Accel. Dev.
Walter H. Doyle ..... Accel. Dev.
James M. Forkin ..... S&EP
Richard J. Gagliardi ..... Plant Eng.
Carl G. Holmstrom ..... Cent. Shops
Robert Kaszuba ..... MIS
Robert D. Lehn ..... AGS
Robert A. Moore ..... MIS
Kenneth G. Morton ..... Accel. Dev.
Jutta L. Paparelli ..... Biology
Andrew M. Sandorfi ..... Physics
Joyce Wund ..... Personnel

HMO Enrollment Now Open

Between now and February 27, eligible BNL employees can either join a Health Maintenance Organization (HMO), change to the AUI Group Medical Insurance Plan administered by Connecticut General Life Insurance Company, choose another HMO or opt to keep their present coverage.



Effective March 1, BNL employees working 20 or more hours a week will be able to choose their next year's coverage from either the AUI Plan or one of five HMOs: ChoiceCare; Empire Blue Cross-Blue Shield Healthnet; Health Insurance Plan of Greater New York (HIP); Sanus (formerly Maxicare); or U.S. Healthcare.

Under the AUI Plan, employees may choose any physician or health-care facility, and fees for services are reimbursed according to plan policies. In comparison, an HMO provides a number of health services on a prepaid premium basis for its enrolled members. This means that, instead of charging a fee for each service provided, the HMO collects the premium fee from members' employers in advance.

That fee entitles the member to most health-care services, such as physician visits, surgical costs, x-rays, hospitalization charges and diagnostic tests. Some HMO services require a small copayment from the member, but most services are covered by the prepaid fee. A basic goal of the HMO is to provide care not only when a member is ill, but also to provide preventive and routine care.

Four of the HMO plans are individual practice associations, in which members are able to select a primary-care physician from a list of participating private physicians. The primary physician, under contract to the HMO, is responsible for referring members to participating medical specialists or admission to a participating hospital when necessary.

HIP is a facility-type HMO that provides medical services only by HIP physicians at a HIP medical center, of which HIP has over 50 in the greater New York metropolitan area, with the nearest in Ronkonkoma.

AUI will subsidize the cost of an HMO by paying up to the premium amount it currently pays for the AUI plan. At this time, there will be no charge for employees who enroll in any of the HMO plans, unless they are also covered by the AUI Dental Assistance Plan. Employees who enroll in an HMO and the Dental Plan will pay monthly charges of $2.08 for individual and $5.20 for family coverage.

Representatives of the various HMOs will be at Berkner Hall on three consecutive Wednesdays — February 8, 15 and 22 — between 11 a.m. and 1:30 p.m., to answer any questions about their plans. Plan literature, including lists of participating physicians and application forms, will be provided by the HMO representatives or can be obtained from Personnel Services, Bldg. 185, Ext. 2877.

To change coverage, employees must obtain the necessary forms from Personnel Services. The deadline for medical coverage changes is Monday, February 27, with coverage effective May 1, 1989, through February 28, 1990.

Science & History (cont'd)

Now Crease is working on a book on scientific experimentation, to be published next year by Indiana University Press. And, in addition to his commitments at *The Scientist Magazine* and at SUNY at Stony Brook, where he is collaborating to establish a Center for Study of Science and Technology to encourage interdisciplinary work in philosophy and science, he is taking on the mantle of BNL historian.

Thanks in large part to the efforts of the late Louis Harson, the Lab site's history as a former U.S. Army training camp has been preserved and has provided the material for the Camp Upton Historical Collection at BNL's Exhibit Center. So, Crease will be concentrating on Brookhaven's history from the standpoint of science.

Many other national laboratories — including Fermi National Accelerator Laboratory, Los Alamos National Laboratory and the Stanford Linear Accelerator Center — either have full-time working historians or historical archivists on their staffs. But, notes Crease, "Despite BNL's importance as the first of the great postwar physics labs and the site of numerous forefront discoveries, this laboratory has a limited scientific historical or archival program."

A start in this direction was made in 1977, when Allan Needel came on board to study the Lab's history and survey its records. Two years ago, the American Institute of Physics (AIP) received a one-year grant from the National Science Foundation that enabled Needel, who is now with the Smithsonian Institution, and AIP Historian Joan Warnow, to compile several dozen boxes of BNL's most important historical documents. Since then, these papers have proven useful to a number of scholars.

As the Lab's new historian, Crease will be looking for a more permanent location for the compiled documents, which now sit in boxes in a corridor of the Research Library. He also hopes to add documents to that collection.

Crease also plans, he says, "to conduct oral history interviews with people who have contributed to the Lab's history, to help preserve the memory of events that would otherwise disappear. I'll also attempt to preserve some of the files, correspondence and notes of these individuals."

Crease plans to be on site on Wednesdays, and anyone with reminiscences, information or correspondence to share pertaining to BNL history is encouraged to contact him at Ext. 3328 or Room 1-51, Bldg. 510, Physics.

Equipment Demo

Harris/3M Fax Machines will be on display in Berkner Hall on Wednesday, February 1, from 10 a.m. to 2 p.m. Representatives from Harris/3M will be on hand to demonstrate the machines, answer questions and provide brochures.

Inside Info

Bruce Stewart, a mathematician in the Department of Applied Science, will be watching with interest the next segment of Nova, a program on "The Strange New Science of Chaos." In its mathematical sense, chaos is something produced by a dynamical system that doesn't seem to have anything random about it, but which behaves in a random way when it settles into a rhythmic pattern called a strange attractor. An expert in the field of chaos, Stewart prepared a 1.5-minute, split-screen, computer animation illustrating one aspect of chaos — phase space — specifically for the Nova broadcast. You can catch it on Tuesday, January 31, by tuning in to channel 13 at 9 p.m.

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In its issue of December 26, 1988, *The Scientist* published a listing of the ten most-cited papers from 1987. Included on the list were two BNL-related papers.

Victor Emery, Physics Department, wrote a paper about his "Theory of High T_c Superconductivity in Oxides," which was published in *Physical Review Letters* in June 1987. The paper received 237 citations through 1988.

Guest researchers **David Vaknin**, **Sunhil Sinha**, **David Moncton**, **David Johnston**, **John Newsam** and **Cyrus Safinya**, of the Exxon Research & Engineering Division, Annandale, New Jersey, discussed their research at BNL's High Flux Beam Reactor in a paper entitled "Antiferromagnetism in La_2CuO_{4-y}." Also published in *Physical Review Letters* in June 1987, the paper was cited 199 times by the end of 1988.

Unlike previous years when the ten most-cited papers represented a variety of fields and journals, all ten on the 1987 list focused on the same field — superconductivity, while the majority were printed in *Physical Review Letters*.

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Victor Emery also wrote about "Theory of High Temperature Superconductivity" for the American Institute of Physics' special report, *Physics News in 1988*, the 20th in a series of annual reviews of physics news. Other BNL'ers contributing to the publication were **Per Bak** and **Chao Tang**, "Self-Organized Criticality"; and **Melvin Month**, who collaborated with Andrew Sessler of Lawrence Berkeley Laboratory and Richard Sheffield of Los Alamos National Laboratory to write about "Particle Beam Physics."

Arrivals & Departures

Arrivals

Heinz E. Bosshard	Biology
Hans De Boer	S&EP
Peter M. Gehring	Physics
Douglas W. Gordon	Accel. Dev.
Edward J. Koropsak	Accel. Dev.
Wuu-Jyh Lin	Chemistry
Joseph F. Lombardo	Accel. Dev.
Hong Ma	Physics
William F. McKeon	Accel. Dev.
Arthur J. Sedlacek III	Chemistry
Alison L. Tilp	Comp. & Comm.

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

Departures

Kerry A. Bonti	Medical
Min Lee	DNE

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A Month-Long Celebration of Black History

With song, lectures, dance and theatre, Black History Month will be celebrated at BNL throughout February. A series of events, sponsored by the Afro-American Culture Club, will be held at Berkner Hall. All start at 7 p.m. and are open to the general public.

• **Gospel Extravaganza** — Saturday, February 4. The eighth annual Gospel Extravaganza will spotlight several choirs, as well as soloist Frances Ligon of BNL's Affirmative Action Office. Ligon, a choir director since 1984, has been a soloist since the age of three, singing at many church programs and gospel festivals.

Featured groups will include the Second Baptist Church Mass Choir, from Rahway, New Jersey, whose members have been singing together for two years and will soon record their first album, *Proverbs;* another group with two years' experience, the East End Community Choir, whose singers come from various churches on eastern Long Island; and the Youth Choir of Faith Baptist Church, a band of about 40 young people from Coram, New York.

Tickets are $10 for adults, $7 for children, and they can be bought from Michelle Cummings, Ext. 2077; April Donegain, Ext. 2459; George Grigg, Ext. 5185; Frances Ligon, Ext. 3709; and Rosa Palmore, Ext. 2882. Buy your seats early — this concert is always a sellout.

• **Lecture by Randall Robinson** — "South Africa and Apartheid: Let's Talk About Justice," Monday, February 6. Randall Robinson is executive director of Trans-Africa, a black American lobby for Africa and the Caribbean. Admission is free.

• **One-Man Show by John S. Patterson** — "When the Colored Band Goes Marchin'," Saturday, February 11. Patterson combines acting, song, dance and mime to portray three generations of prose and poetry by Afro-Americans. Admission is free.

• **Lecture by Anthony Browder** — "The African Influence on Western Culture and Civilization," Saturday, February 18. A slide-illustrated talk by Browder, who has lectured throughout the U.S., Mexico and Africa. Admission is free.

Frances Ligon

• **Youth Talent Show** — Saturday, February 25. Entrants from six to 18 years old will entertain by singing, dancing and acting. Trophies will be awarded to the winners. All tickets are $3, and they can be bought at the door or from Mary Durham, Ext. 7143; George Grigg, Ext. 5185; Frances Ligon, Ext. 3709; and Bruce Penn, Ext. 7213.

For more information about these events, call Public Affairs, Ext. 2345.

To Your Health

"Salt and Sodium in Foods" will be the second talk in the "Nutrition for a Healthy Heart" series of three lectures. Sponsored by the Health Promotion Program, the talk will take place on Tuesday, January 31, at noon, in Berkner Hall.

The speaker will again be registered dietitian Maria Museler, an associate professor and the director of the Dietetic Technician Program at Suffolk County Community College. For more information, contact Health Promotion Specialist Elaine Friedman, Ext. 2699, Tuesdays, Thursdays and Fridays.

Valentine Bouquets Still on Sale

There is still time to order a bouquet of carnations for Valentine's Day, and, at the same time, give a donation to the American Heart Association. The $5 cost for each bouquet must be paid by Friday, February 3. See Louisa Barone in the BERA Sales Office, 9 a.m. to 2 p.m.

Adult Swim Lessons

There will be a mini-swimming program for adults, beginning on February 7. The lessons will run on four consecutive Tuesday evenings at a cost of $10 for the sessions. Sign up at the swimming pool on or before February 7.

Theater Group

The Theater Group will meet on Wednesday, February 1, at 7:30 p.m. in the North Room of the Brookhaven Center.

Bowling

Red/Green League

K. Asselta bowled a 239, L. Jacobson 233, J. Connelly 219, G. Meinken 209, J. Ferrante 206.

White League

Joe Ferrante had a 211, Ed Meier 208, Dan Harrow 203, Pat Manzella 184, Marge Stoeckel 181.

Purple League

Joe Mayeski rolled a 257, Rob Simes 222/614 scratch, Ben Belligan 209, Cheryl Miezianka 199, Gail Schuman 192/192.

Dispose of Waste Motor Oil on Site

Even if you change your car's motor oil yourself, you can dispose of your waste oils at the Friendly Gulf Service Station on Technology Street — *in the station's waste-oil holding tank, during its normal working hours: weekdays, 8 a.m. to 6 p.m.*

Please do not leave unattended waste-oil containers at the station at any other time.

Social Club

BNL Social Club still has the following tickets available for the Nassau Coliseum:

• **Harlem Globetrotters** — Sunday, February 19, 2 p.m.; all tickets $13.

• **Truck 'n Tractor Pull** — Friday, March 3, 8 p.m.; Adults $16, children under 12 $8.

• **Ringling Brothers and Barnum & Bailey Circus** — Saturday, March 18, 11 a.m.; adults $13.50, children under 12 $11.50.

• **Wrestling** — postponed until March, reservations requested at $15 each.

New tickets available include:

• **Islanders vs Boston** — Tuesday, March 7, 8:05 p.m., tickets $19.

• **Muppets** — Sunday, May 28, details available soon.

The Club is also sponsoring a Maine Clambake, June 4-7. Costs are $427/single; $313/double; $309/triple. A $25 deposit is required, with the balance due by May 5.

For more information, call Doris Terry, Ext. 7610.

Volleyball

Standings — Week of January 16

League I		League II	
Upfagrabs	31-2	Fossils	26-7
Dinkers	23-10	Set-Ups	26-7
Xrayted	20-13	Krush	22-11
Cannonballs	16-17	Nuts & Bolts	21-12
Phoubars	6-27	Ziegfield Vollies	12-21
Netminders	3-30	Slammers	10-23
		Chunga's Revenge	8-25
		Upton-Ups	7-26

League III		Open League	
Frazzled	35-1	Meriem's Team	26-4
MISfits	23-13	Dig Your Lips	26-7
High Volley'em	22-14	Phoenix	25-8
Printouts	19-17	Tom's Mutants	21-12
Sourcerers	19-17	Magnum	18-12
Spikes	14-22	Vollies	12-21
Good Timers	7-29	Pi Chu	8-25
Renegades	5-31	Rowdy Radicals	8-25
		Constables	0-30

BERA Board Appoints Nominating Committee

The BERA Executive Board announces the appointment of the following nominating committee for the 1989 BERA Election. The committee will select a slate of candidates for the annual election, which will take place during the week of March 27-31.

Committee Members	Ext.
Roseann Callister	3173
John Connelly	4639
Renée Flack	3316
Steve Gill	2496
Kimberly Holschuh	2839
Francis Loeb	2092
Denise Miesell	4692
Lisa Restagno	7921
Ed Sperry IV	2697
Joan Sperry	2910

Any employee who wishes to propose a candidate for nomination may do so by contacting a member of the nominating committee by Friday, February 10. Please make certain the person being proposed will agree to accept the nomination if selected by the committee.

Basketball

Week of January 16

First Game

Longshots 50		Penetrators 37	
R. Bersak	18	R. Domenech	11
S. Alonzo	8	F. Ligon	11
T. Mayo	8	K. Jackson	7
G. Mack	5	T. Abbott	2
S. Springston	4	G. Dunmore	2
J. Wells	3	G. Smith	2
F. Malone	2	P. Thompson	2
A. Ratti	2		

Three point shots: Domenech (2), Ligon

Second Game

Knicks 58		Light Source 47	
E. Hobson	18	M. Fulkerson	24
L. Walcott	11	D. Harris	8
T. Mendez	8	K. D'Amico	6
G. Thompson	7	J. Garrison	4
F. Thompson	6	L. Jackson	3
B. Turner	4	I. Garcia	2
A. Flack	2		
M. Lawrence	2		

Three point shots: Fulkerson, Hobson, Jackson, Walcott (3)

Third Game

Runaways 62		Celtics 56	
S. Gilbert	18	M. Colon	17
P. Johnson	16	D. Hoggard	17
G. Shepherd	14	P. Browne	8
R. Moran	12	C. Edwards	8
A. Stillman	2	N. Schowski	4
		J. Gaeta	2

Three point shots: Hoggard, Johnson, Moran

Cafeteria Menu

Week of January 30

Monday, January 30

Soup: Cream of mushroom	(cup)	.75
	(bowl)	.95
Baked ziti w/garlic bread		3.10
Baked chicken w/veg.		3.10
Lite-line: Broiled chicken w/veg.		3.00
Hot deli: Ham		2.85

Tuesday, January 31

Soup: Chunky tomato	(cup)	.75
	(bowl)	.95
Sauerbraten & veg.		3.10
Chicken chow mein over rice		3.00
Lite-line: Top round & veg.		3.10
Hot deli: Corned beef		2.85

Wednesday, February 1 — Cajun Day

Soup: Black bean	(cup)	.75
	(bowl)	.95
Seafood Creole over rice		3.10
Chicken & ham jambalaya over rice		3.10
Lite-line: Broiled fish & veg.		3.00
Hush puppies	(each)	.65
Hot deli: Steak & cheese sandwich		2.85

Thursday, February 2

Soup: Cream of cauliflower	(cup)	.75
	(bowl)	.95
Chicken & bean burrito & veg.		3.00
BBQ beef over noodles		3.10
Lite-line: Salad plate		2.25
Hot deli: Meatball hero		2.85

Friday, February 3

Soup: Garden vegetable	(cup)	.75
	(bowl)	.95
Fried seafood platter w/french fries		3.10
Meat loaf w/brown gravy & veg.		3.10
Hot deli: Turkey & cheese croissant		2.85

Breakfast Specials

Monday:	Egg & bacon on roll	1.10
Tuesday:	Western omelet & toast	1.45
Wednesday:	Pancakes & sausage patty	1.10
Thursday:	Two eggs any way w/bacon & toast	1.20
Friday:	French toast & bacon	1.00

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.

3070. OFFICE SERVICES POSITION - Requires AAS in secretarial science or equivalent. Extensive IPAP/J-CARS experience and a knowledge of Laboratory policies and procedures essential. Responsibilities will include data entry, as well as maintaining various management data bases for division safety program. Instrumentation Division.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside applicants.

3071. TECHNICAL POSITION - Requires AAS degree in technology and/or extensive experience in metallography. Will be involved in the preparation, optical characterization and micro-mechanical testing of metallic and nonmetallic samples. Single crystal alignment, cutting and finishing in support of NSLS and HFBR projects is also involved. Department of Applied Science.

3072. SCIENTIFIC ASSOCIATE POSITION - Requires BS in physics or a related field and a minimum of five years' extensive experience in computer automation and mechanical systems. Responsibilities include interfacing between scientific and technical staff in setting up and carrying out experimental studies of the X-Ray Scattering Group. Physics Department.

3073. ENGINEERING POSITION - Requires a bachelor's degree in architecture, architectural engineering or equivalent. Five years' minimum experience is required in facilities design, specifications writing and estimating. Responsibilities will include the preparation of drawings and specifications for bidding purposes. Auto-Cad experience is desirable. (Reposting of Job #3030) Plant Engineering Division.

3074. ENGINEERING POSITION - Requires a bachelor's degree in civil or structural engineering or equivalent, with a minimum five years' structural design/drafting experience. Responsibilities include the preparation of drawings and specifications for bidding purposes. Auto-Cad experience is desirable. (Reposting of Job #3031) Plant Engineering Division.

Motor Vehicles & Supplies

87 DODGE DAKOTA - a/t, a/c, 6-cyl., 20k mi., p/b, p/s, am/fm, pin striping, $10,200. 281-1862.

86 CAMARO - red, black interior, am/fm, a/c, p/s, p/b, 31k mi., orig. owner, mint cond., $8,000, firm. Audrey, 335-5015.

86 FIREBIRD - a/t, a/c, am/fm cass., $7,500. 844-8645 eves.

86 HONDA CIVIC SI - h/b, 5-spd., 50k mi., sunroof, am/fm cass., new tires, muffler, clean in and out, $6,500. Chris, Ext. 2022.

85 BUICK REGAL - like new, 38k mi., p/s, p/b, a/c, am/fm, velour, new brakes, $6,500. 744-9802.

83 FORD MUSTANG GT - T-tops, a/c, p/w, p/l, cruise, tilt, am/fm stereo cass., mint. Ray, 821-3955.

83 JEEP CJ7 - soft top, 4-spd., 6-cyl., new tires, excel. cond., bikini top, $5,300. Janet, Ext. 4049 or 744-8087.

82 TOYOTA SR5 PICKUP - 4x4, 5-spd., custom cap, fm/cass., hi miles, some rust, a/c, $4,000. 395-1554 eves.

81 FORD MUSTANG - 4-cyl., 4-spd., gauges, new clutch, very good cond., $1,600. 744-9812 after 5 p.m.

81 FORD MUSTANG - 4-cyl., 4-spd., sunroof, am/fm cass., p/s, p/b, runs well, body good, $1,500. Jeff, Ext. 5262.

81 HONDA CIVIC WAGON - parts avail., body panels, tires, wheels, etc. Gary, Ext. 5786.

81 FORD STEPSIDE PICKUP - new black paint & pinstripes, new motor, rebuilt trans., new converter, tires & rims, extra tires & wheels, mint. 399-6729.

80 BUICK SKYLARK - 2-dr., V-6, a/t, 76k mi., good cond., $1,300, neg. Ext. 3851.

80 MONTE CARLO - 2-dr., V-6, a/t, p/s, p/b, a/c, needs work, best offer. Ext. 2498 or 472-9349.

80 FIESTA - 78k mi., dependable, runs, good body, excel. sound system., $600. Joe McDermott, Ext. 5227.

80 DODGE OMNI - a/t, p/s, p/b, a/c, excel. in & out, $950; 15" Dodge van or LT rims, $10 ea. 585-6518 between 8 a.m. and 5 p.m.

80 CHEVY MALIBU CLASSIC - a/t, p/s, p/b, 6-cyl., rally wheels, vinyl roof, 80k mi., $800. Tony, Ext. 3658.

79 HONDA CIVIC - h/b, 92k mi., am/fm cass., new tires, starter, brakes, water pump, etc., good cond., make an offer. Ext. 3583 or 3204.

79 CADILLAC FLEETWOOD - all options, c.b., no rot, dents, new trans., exhaust system, good cond., runs like new. John, Ext. 9268.

79 PLYMOUTH HORIZON - new exhaust, battery, alternator, tires, runs well, asking $650, neg. 878-0939 after 6 p.m.

79 HONDA 1200 CC - new battery, timing chain, good tires, good cond., eng. needs work, $150. Don, Ext. 3511.

78 VOLVO 264 GLE - all options, 110k mi., needs work, $800. Mary, 288-9086.

77 PLYMOUTH RELIANT - V-6, 4-dr., 127k mi., runs well, am, avail. Feb. 6, $350. Patrice, Ext. 4379 or 2512.

77 YAMAHA 750 MOTORCYCLE - 5k orig. mi., red, like new. 878-1518.

77 VOLARE - 4-dr., p/s, a/c, new trans., exhaust system, 66k mi., good cond., $500, neg. Ext. 4534 or 924-7916.

76 MERCURY CAPRI II - 4-cyl., 4-spd., 2300cc, runs or good for parts, $250. Ext. 2946 or 281-2463.

75 SKYLARK - ugly, but starts every morning, $100. 929-5945 after 6 p.m.

74 COMET - one owner, 8-cyl., s/t, some rust, runs well, $600. 281-7844 eves

73 LINCOLN MARK IV - 80k mi., no rust, in storage for last 2 years, $1,200. George, 286-3231.

70 PONTIAC FIREBIRD - 350 eng., 4-barrel, 4-spd., excel. in and out, hood tach, asking $2,700. Janet, Ext. 4049 or 744-8087.

CAR-TOP CARRIER - canvas, like new, $30. Vinnie, Ext. 2483 or 473-7906.

SNOW TIRES - P20575R14, Goodyear Wrangler radials, good cond., $40 pr. 727-6959.

TIRES - Sears Roadhandler G.T., 225x70x15, w/w, good cond., 4 ea., best offer. Larry, Ext. 4821.

TIRE - new 721 Firestone 235/75R15, Eldo rim, $75 neg. Ernie, 588-4987.

TRANSMISSION - for 1979 Corvette, THM 350, excel. cond., $150. Bart, Ext. 3457 or 924-6761.

Boats & Marine Supplies

17' WINNER - 1974, 1976 85-h.p. Johnson, 1986 trailer, eng. runs well, ski package avail., asking $2,700. Bill, 924-1039.

12' SAILING DINGHY - 2 adults + 2 kids capacity, spare jib, best offer takes it. 744-6059.

76 EVINRUDE OUTBOARD - 25 h.p., long shaft, manual start, recent overhaul, $275. Brian, Ext. 2799.

Furnishings & Appliances

TOASTER OVEN - G.E., $35; 2 wooden-spindle twin headboards, 2/$25; pet taxi, $10. Ext. 4695.

HOME FURNISHINGS - chairs, tables, dresser, beds, lamps. 288-3273.

DRESSERS - 2 four-drawer w/corner desk, wood, maple finish, $50 total. 286-0259 after 4 p.m.

CURIO CABINET - 2-dr., 2-lighted section, 6 shelves, excel. cond., cherrywood finish. 924-4193.

MATTRESS - queen-size $80. Klaus, Ext. 5089.

DINING ROOM FURNITURE - traditional, 42"x64" table, 3 leaves, pads, 4 chairs, china closet, asking $700. 724-0564 after 6 p.m.

DINETTE TABLE - formica top w/leaf, four chairs, $50. 751-1884 eves.

HANGING CHAIR - wood & macrame, very comfortable, $35. Janet, Ext. 4049 or 744-8087.

CHINA CLOSET - mahogany veneer, glass sliding door, 3 drawers, 1 cabinet, very good, $30. Dan, Ext. 4987 eves, or 698-7322 days.

REFRIGERATOR - 18 cu. ft., almond, freezer on bottom, practically new, $400. 473-2588 after 6 p.m.

ELECTRIC STOVE - white, 30" wide, auto features, self-cleaning oven, speed broiler, oven probe, $125. Marty, Ext. 4028 or 654-5888.

PLATE GLASS MIRROR - 3½'x4' ¼" thick, $20. Dan, Ext. 4987 eves or 698-7322 days.

COMPACTOR - Sears Deluxe, under 6 mos. old., has extra compact feature, excel. cond., $175. Ext. 7978 or 744-9308.

DESK - wood/formica, $75; bicycle, 10-spd., Free Spirit, $50. 928-0242 weekends.

CLOCK THERMOSTAT - white, Rodgers, single setback, brand new, backup battery, $25. Bill, Ext. 4428.

PIANO-ROLL CABINET - mahogany, 2-drs., 45"Hx23"Wx16½"D, $50; old, large, flat-top trunk, painted, $20; hand-push snowplow, $10. 878-6637.

Tools, House & Garden

CIRCULAR HAND SAW - Makita, 8¼", excel. cond., $110. Mark, Ext. 5350 or 369-0793.

WOOD STOVE - Franklin-type, $50. Erik, Ext. 4603.

SNOWBLOWER - Craftsman, 5 h.p., 2-stage, 22" cut, 4-spd. trans., 12" impeller, $300. Don, 473-6570 after 7 p.m.

FIREWOOD - seasoned oak, full cord, $130 del. 732-2849.

POT-BELLIED STOVE - small, never used, $25; adjustable floor jack, 8', $5 ea., take five, get one free. Ext. 4606.

Sports, Hobbies & Pets

PIANO - Yamaha, upright, like new, $1,900. Krystyna, Ext. 2485/2387 or 924-0123.

BIKE - 16", 10-speed, $50. G. Williams, 286-3863.

POOL TABLE - 7', slate w/cue balls & rack, like new, $175. 732-1389 after 6 p.m.

BASSETT HOUND - A.K.C., 1-year-old, $100. Rich, Ext. 4867 or 744-8190 after 5 p.m.

COMPOUND BOWS - Bear Ltd., 40-65 lb., 30" draw, $75; Golden Eagle cam hunter, 45-60 lb., 30" draw, $175. Bill, Ext. 2377.

BIKES - BMW, Diamond Back Turbo & Haro Master Freestyle, both excel., $160/each. 722-4821.

SEWING MACHINE - Singer, model 337, zig-zag/straight, in maple cabinet, excel. cond., $60. Bob, Ext. 4824/4095, beeper 343 or 744-5098.

TENNIS RACQUETS - 2. almost new, Prince Ceramic Spectrum, comp. 110, in thermal racquet bags, $150/both. 589-0625.

DOG - shepherd/collie mix, male, fixed, miniature, housebroken, needs home w/loving children. 474-2663.

PIANO - Pease, upright, w/ivory keys, $400. Ext. 2949 or 427-2435.

DRUM SET - Ludwig, 4 pcs., excel., $125; Radio Shack TR-80 computer w/games. 399-0537 eves.

CROSS COUNTRY SKI PACKAGE - 200cm and 210cm, men's size 9½-10 boots, poles and Nordic bindings, $50 all. Richie, Ext. 2175.

YAMAHA ORGAN - double keyboard, rhythm box, foot peddles, walnut, music sheets, excel. cond., $1,900. 281-1862.

HOCKEY SKATES - good cond., size 5, $25. Ext. 5286.

BASEBALL CARDS - 1979 Topps, provide wish list w/offer by mail; baseball cards, 1988 Topps Rak Packs, $1.20 ea. Tony, Bldg. 355, Ext. 3194.

BOXING BAG - ball, two sets of gloves, $25. Ext. 4604.

Audio, Video & Computers

COMPUTER - S-100, vintage hackers system, will sell for 10% of orig. list. Erik, Ext. 4603.

AUDIO TAPES - 8-track, w/2 rotating storage racks, $15. Tony, Ext. 2050.

CAMCORDER - Panasonic PV400, new, never used, $775. Carol, Ext. 5258.

Miscellaneous

STROLLERS - 1 Gerry double-umbrella w/canopy, $90; 1 Cosmos single-folding carriage, $75. Mark, Ext. 5350 or 369-0793.

SKI JACKET - women's, goose-down, excel. cond., only used twice, must see, asking $40, orig. $135. Ext. 7745.

SNOWMOBILE BOOTS - sizes 9 and 11, snowmobile suits, black, hooded, men's XL, and women's large. Dorothy, 744-9027.

ANNUAL BAFFA CITRUS SALE - pink grapefruit and Valencia oranges. Mary Kelly, Ext. 4230 by Feb. 8.

LEATHER BOOTS & WALKING SHOES - size 7½, imported, new, $80, now $50; sweaters, mohair & wool, new, 50% discount. Amalia Ext. 3102.

AIRLINE TICKETS - 1 pair, round-trip, Islip-Ft. Lauderdale, American Airlines, Nov. 6-Nov 14, $375. Toni, Ext. 5257.

Lost & Found

FOUND - pocket-size camera on sidewalk between Berkner Hall and Johns Hopkins St. Ext. 2873.

Free

78 VW BUS - interior good, exterior some rust, runs sometimes, you take away. Stephen, 265-3982 after 6 p.m.

BEAGLE - female, good temperament, good in house. Bill, Ext. 4428.

Car Pools

PATCHOGUE VAN POOL - seat open, leave name and number, Ext. 4669.

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

LAKE PANAMOKA - 2-bdrm. ranch, kitchen, d/r, l/r w/fp, w/d, walk to private lake, immed. occupancy, 5 min. from Lab. John, Ext. 4666.

MASTIC BEACH - 2-bdrm. house, screened porch, near water, large property. Tom, 360-3803 after 6 p.m.

MASTIC BEACH - 3-rm. apt., bath, kitchen, priv. ent., single or couple, $700 includes utilities. Ext. 2951.

NORTH SHIRLEY - 3 mi. to Lab, all new apt., w/w, large bdrm., full bath, large l/r kitchen combo, $600/mo. inc. util & cable. 395-9112 eves.

SHIRLEY - 3-bdrm. house, 1 block from Bay, near Smith Point Bridge, $825/mo. George, 286-3231.

SOUND BEACH - spacious studio, l/r bdrm. combo, full kitchen, full bath, priv. entrance, cable, $550/mo. includes all, 1 month security. 821-6859.

STONY BROOK - 3-bdrm. house, 2½ baths, l/r, d/r, eik, den, 2½-car garage, March occupancy, near University, 3V schools, $1,200/mo. + util. 924-2184.

HILTON HEAD, SC - 2-bdrm. condo, sleeps 6, tennis, golf, beach, pool, Jan. & Feb. $300/wk. Guy, Ext. 3147 or 585-9149.

For Sale

CORAM - 9-rm. Colonial, cul-de-sac, 4-bdrm., 2½ bath, fam. rm., f/p, eik, d/r, l/r, mud rm., 2-car gar., in-ground pool & sprinkler, extras, $195,000. Nelson Tyler, Ext. 2303 or 732-3902 after 5 p.m.

MIDDLE ISLAND - excel. 1-bdrm. co-op, $400 maint. incls., heat, taxes, garbage, water, new bath, new kitchen, new carpet, assumable mortgage, asking $64,500. Bill, 924-1039.

SAYVILLE - adult, 2-bdrm. townhouse, 1½ baths, dinette, laundry rm, attic, garage, air, patio, fireplace, clubhouse, guarded gate, low $160's, will rent. Frances, Ext. 2901.

SETAUKET - 4-bdrm. Colonial, 2½-bath, eik, l/r, d/r, fam. rm., f/p, wood floors, screened porch, finished bsmt., 2-car gar., 0.52 acre, GHWH, new vinyl siding, $274,990. Shiue, Ext. 4395 or 3372.

SHOREHAM - 4-bdrm., 2½-bath Colonial, on fenced ⅓ acre in great neighborhood, 2-car garage, basement, energy efficient, low taxes, SWR schools, 15 min. to Lab, $175,000. Barbara, 744-0960.

SHIRLEY 2-bdrm. Cape, city water, low taxes, expandable attic, 7 mi. from Lab, quiet neighborhood, $96,000. 395-4272 eves.

STONY BROOK - 4-bdrm. Colonial, 2½ baths, l/r, d/r, f/p, eik, 2-car garage, fenced ½ acre, new siding, windows and doors, immac., asking $199,000. 689-8605.

STONY BROOK - 4 bdrms., 3½ baths, finished bsmnt., mint cond., north 25A. 751-2860 eves.

KISSIMMEE, FL. - 7½ acres, zoned AE5, 7 approx. miles from Disney-Epcot, build your own home or buy for speculation, fast-growing area, homeowners assn., $35,000. 407-260-1921.

HILTON HEAD, SC - 3-bdrm. condo, sleeps 8, 2-bath, washer/dryer, wet bar, 6 tennis courts, 3 pools, whirlpool, golf, ocean view, asking $85,000, will rent. 929-8912.

Send a Love Note To Your Valentine

Is there a special message you'd like to send to your valentine next month? If you can keep it short and sweet, you can have your Valentine's Day message printed in the Bulletin on February 10. Send your 15-to-20-word "love note" to the Bulletin, Bldg. 134, by Wednesday, February 1, on 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, and all "love notes" will be accepted at the Bulletin's discretion. Only one message per employee, please.

Wanted

HOUSEMATE - to share house in Ridge, 10 min. from Lab, indiv. bdrm., shared kitchen & l/r, $310/mo. + util. Ext. 3382 or 3230.

LEFT REAR DOOR - '66 or '67 Dodge Coronet 440, will pay. 928-5014.

CANOE - alum. or fiberglass, 16' to 18'. John, Ext. 7671.

WELL PUMP - submersible. Al, Ext. 2043.

OUTBOARD MOTOR - 15h.p. Evinrude or Johnson. Joe, Beeper 925 or 728-1859, 6 p.m. to 11 p.m.

PEOPLE - to time share Condo in New Orleans for Jazz week, April 28 to May 5th, sleeps 4, $140/night. 543-7065.

PEOPLE - for prayer group, Tues./Thurs., 12-12:30, chapel, Medical, Bldg. 490, P. McHugh, Ext. 3297 or M. Cooper, Ext. 4105.

MUSICIANS - Bay Area Symphony (BAFFA) and Chorus. Ext. 4230 or 363-7431.

LIVE-IN COMPANION/AIDE - for an elderly person. Ann, Ext. 2022.

REFRIGERATOR - very small dorm-type. John, Ext. 7671.

VCR - any model, beta format, in good cond. Ext. 7697.

X-COUNTRY SKI EXERCISER - Nordic Trak, good, used, reasonably priced. 369-1065.

TAILOR - or seamstress to make a man's sport jacket from my material. Les, Ext. 5180.

COMPUTER - lap-top or portable, reasonable and full functional. Don, 473-6570 after 7 p.m.

In Appreciation

The DiDio family expresses their appreciation for the support and prayers offered for the late Angelo DiDio, who died on November 1, 1988. He had retired in 1978 as a heavy-equipment supervisor in Plant Engineering, after 31 years at the Lab.

— Viola DiDio