BROOKHAVEN BULLETIN
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BROOKHAVEN NATIONAL LABORATORY

Leukemia Society to Honor Cronkite With Highest Award Next Week

BNL Senior Scientist Eugene Cronkite, Medical Department, will be awarded the highest and most prestigious award of the Leukemia Society of America, during an international symposium on the biology of blood-cell formation over the week of October 16.

On October 19, Cronkite will receive the 17th Robert de Villiers Award during the 15th annual Frederick Stohlman Memorial Symposium in Cambridge, Massachusetts. Consisting of a medal and a cash prize of $10,000, the award is given periodically to a medical scientist who has made an outstanding contribution to leukemia research.

The Leukemia Society of America is a voluntary health agency dedicated to finding the cause and cure of leukemia and its related diseases: lymphomas, Hodgkin's disease and multiple myeloma.

Leukemia and its related diseases arise in the tissues that form blood — the bone marrow, lymph nodes and spleen. In patients with leukemia, millions of abnormal and useless white blood cells are produced, preventing the manufacture of normal oxygen-carrying red blood cells and disease-fighting white blood cells and platelets.

Leukemia and its related diseases are first diagnosed in about 80,000 Americans each year and kill over 45,000. The leukemia survival rate has doubled from 15 percent in 1965 to 33 percent in 1989.

Roger Stoutenburgh

Eugene Cronkite

The Leukemia Society of America grew from the de Villiers Foundation, established by the family of Robert de Villiers following his death from leukemia at the age of 16 in 1944. Since its founding, the Leukemia Society of America has allocated more than $55 million to research.

A physician who specialized in hematology and radiobiology, Eugene Cronkite has concentrated his research on hematopoiesis — the process by which the cellular elements of blood are formed — that is fundamental to the present understanding of the biology of leukemia and its related diseases.

In addition to shedding light on the anatomy and physiology of blood production and cell proliferation, Cronkite has elucidated the biological effects of ionizing radiation on blood cells, and this work has become the basis for understanding aplastic anemia.

While in the U.S. Navy from 1942-54, Cronkite collaborated on the development of the techniques of platelet and granulocyte transfusions, both of which are crucial in treating acute leukemia.

At BNL in the late 1950s, Cronkite, BNL Senior Scientist Victor Bond and Theodor Fliedner of West Germany initiated the use of tritiated thymidine, a radioactive precursor of DNA that was developed at BNL, to study cell proliferation in different types of leukemia and multiple melanoma.

In the early 60s, to explore the kinetics of normal and leukemic lymphocytes, and as a treatment for chronic leukemia, Cronkite developed the technique of irradiation of the blood extracorporeally, or outside the living body.

Eugene Cronkite earned his A.B. degree in 1935 and his M.D. degree

(Continued on page 2)

Norman Ramsey Wins Nobel Prize

One of the recipients of the 1989 Nobel Prize in Physics is Norman F. Ramsey, Harvard University, who was one of the founders of Associated Universities, Inc., and the first Chairman of BNL's Physics Department from 1946-47. Ramsey shares the prize with Hans G. Dehmelt, University of Washington, and Wolfgang Paul, University of Bonn.

As the prize announcement was made after the Bulletin's deadline, a more detailed story will appear in next week's issue.

Norman Ramsey, speaking at BNL's 40th anniversary celebration, 1987.

Meeting Energy Challenges With Microbial Biochemistry

Increasing energy while decreasing its polluting by-products will be a growing challenge in the 1990s and beyond, as world energy supplies dwindle and pollution continues.

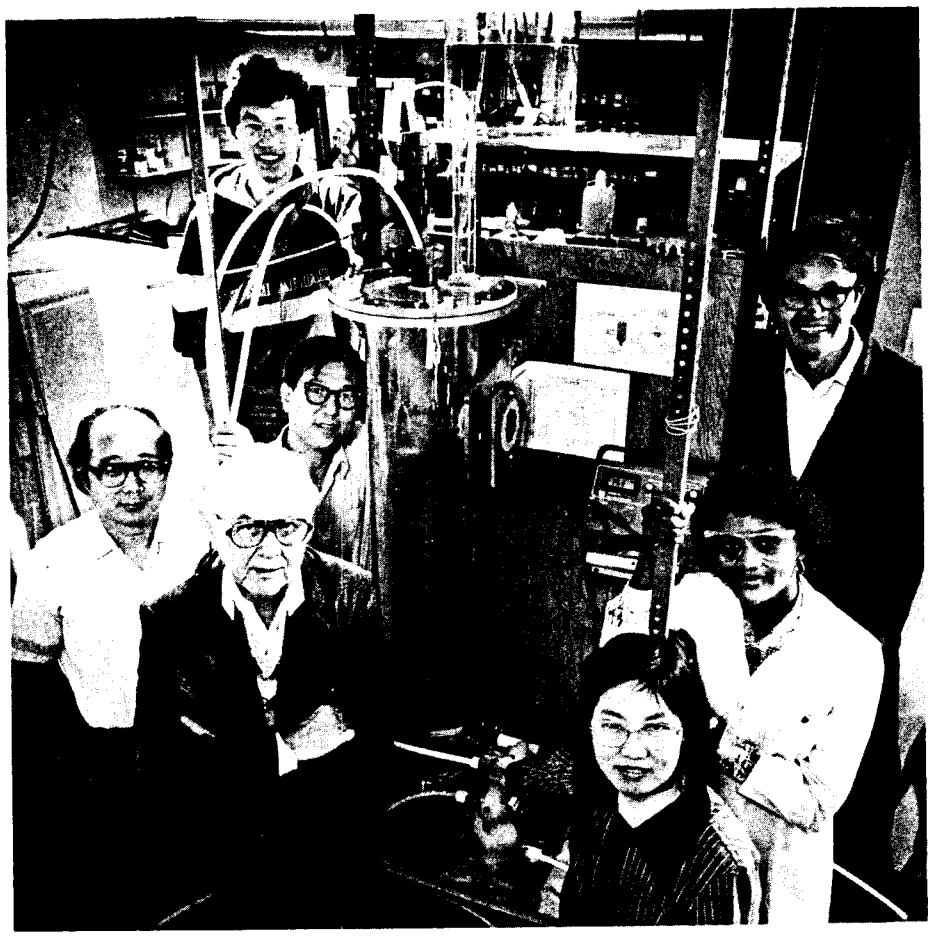
Chemist Eugene Premuzic and his colleagues working in the Department of Applied Science (DAS) are not waiting for the next decade. They are facing the challenges now, using microorganisms to help resolve two energy-related problems: reducing geothermal waste and increasing oil reserves.

Working with Premuzic are DAS's Mow Lin, a chemist, and Bettie Sylvester, a microbiologist/bacteriologist; and Sunki Kang, a doctoral candidate in chemical engineering from Oregon State University, along with several visiting scientists from Taiwan and the People's Republic of China.

The heat and acid-loving, or thermophilic and acidophilic, microorganisms that this interdisciplinary team is using do not cause human disease. During the course of their life processes, however, these microbes can transform energy-related materials. For example, they can remove toxic metals from wastes and make oil more mobile.

To pursue such phenomena, the researchers are growing large batches of microbes using methods similar to those used in fermentation and in the food-processing industry.

Premuzic will talk about this work next Friday, October 20, at the conference "Progress '89: Biotechnology on Long Island." (See sidebar.)


Roger Stoutenburgh

Standing in Bldg. 318, by a bioreactor where microorganisms for their research are grown, are: (left, front to back) Eugene Premuzic, BNL; Mow Lin, BNL; Zheng Yang, Zhejiang University, People's Republic of China (PRC); and Sunki Kang, Oregon State University; and (right, front to back) Ling Chen, Lingtong Fertilizer Research Center, (LFRC) PRC; Bettie Sylvester, BNL; and Xiao Hou, LFRC, PRC.

Reducing Geothermal Waste

Geothermal energy is heat derived from deep beneath the earth's surface. It originates in molten rock and its visible forms include geysers and volcanos. Geothermal energy is used to heat homes and produce electricity in parts of the western U.S., and in Iceland, New Zealand, Japan and other countries. Other untapped supplies exist in many areas of the world.

While geothermal energy is the cleanest form of power, it still produces some pollution in the form of a solid waste containing toxic metals. When the energy is released by drilling a hole into a steam or hot water reservoir, a superheated fluid emerges. This superheated material contains metal salts of arsenic, chromium, copper and others, usually in the form of sulfides, which remain at the earth's surface.

These toxic metals are currently disposed of at hazardous waste dump sites, but, according to Premuzic, "Transport and disposal of these wastes is very expensive. If we can dispose of them using biotechnology based on microbial processes, efficient and economical disposal of metal-contaminated waste will be accomplished. There are several geothermal plants in the U.S. Therefore, substantial savings will be achieved."

Due to the efforts of the DAS research team, funded by the U.S. Department of Energy's (DOE) Division of Geothermal Energy, these savings may become a reality by the mid-1990s. They use microorganisms that can withstand very acidic conditions and elevated temperatures, and can solubilize metal sulfides. Thus, the microbes are ideal for changing toxic metal sulfides to metal sulfates through oxidation of salts present in geothermal residues which are generated in large quantities.

"These metal sulfates are soluble in water, and the water can be reinjected into the geothermal wells and thus replenish water in them to start a new cycle of geothermal energy," Premuzic said.

Eventually, with industry's cooperation, DOE hopes to build a pilot plant for microbial transformation of geothermal waste at a site as yet to be determined. Premuzic anticipates that by the mid-1990s this new, natural and economical method of geothermal waste disposal will be part of BNL's technology transfer program.

Increasing Oil Supplies

Funded by DOE's Division of Fossil Fuels, the DAS research group has also used thermophilic microorganisms to enhance oil recovery. As only the lighter, more fluid oils have been removed from wells, more than 50 percent of the world's oil reserves are still in place.

(Continued on page 2)

Information Exchanged on ALARA

ALARA —"as low as reasonably achievable" — is the principle underlying efforts to protect radiation workers from exposure. September 18-21, this principle was the subject of an international workshop at BNL on "New Developments in Occupational Dose Control and ALARA Implementation at Nuclear Power Plants and Similar Facilities."

Sponsored by the U.S. Nuclear Regulatory Commission (NRC) and the U.S. Department of Energy, in cooperation with the Nuclear Energy Agency of the Organization for Economic Cooperation and Development (OECD), the workshop drew about 120 participants from 11 countries.

The four days of papers and workshops examining ways to control and reduce occupational radiation doses to workers at nuclear facilities were organized by John Baum, manager of the ALARA Center within BNL's Department of Nuclear Energy, and his staff: Senior Project Engineer Tasneem Khan, Engineer Bruce Dionne and Secretary Specialist Maria Beckman.

Several innovative ALARA developments introduced at the workshop involved using the computer to compile dose information: For example, radiation workers can now take a tour of many nuclear facilities by laser disc, so as to plan operations, maintenance and engineering changes involving the lowest radiation risk.

Another example was the new, online ALARA information system developed at BNL, under the aegis of the NRC. This system contains data from 92 nuclear plants from countries belonging to the OECD, and the OCED's Nuclear Energy Agency is considering adopting it as the primary data base on dose reduction.

At the international ALARA workshop: (from left) Christer Viktorsson, of the Nuclear Energy Agency (NEA) of the Organization of Economic Cooperation & Development (OECD), Sweden; Osvaldo Ilari, deputy head of Radiation Protection, NEA, OECD, Italy; Dominique Gillaizeau, CEPN-INSERM, France; Jacques Lochard, director of CEPN-INSERM, France; Barbara Brooks, Office of Nuclear Regulatory Research, U.S. Nuclear Regulatory Commission; and John Baum, manager of BNL's ALARA Center.

BNL Scientists to Speak At Biotechnology Conference

Seven BNL researchers will be among some 30 distinguished scientists from Long Island institutions who will speak at "Progress '89: Biotechnology on Long Island." It is a three-day conference sponsored by the Center for Biotechnology at the State University of New York at Stony Brook, starting on Wednesday, October 18.

The conference will be held at three locations: North Shore University Hospital—Cornell University Medical College on October 18; Cold Spring Harbor Laboratory on October 19; and BNL on October 20.

The scientists will present their current research to the commercial community in the areas of neurobiology, cancer biotechnology, molecular and structural biology, and new applications of biotechnology. As well, they will provide information about their institutions' research facilities.

BNL scientists who are scheduled to give presentations are:

- **Alfred Wolf,** Chemistry Department, "Positron Emission Tomography and Biomedical Research," October 18.
- **Suresh Srivastava,** Medical Department, "Radioimmunoconjugates for Imaging and Therapy of Human Cancer," October 18.
- **Benno Schoenborn,** Biology Department, "Brookhaven's Facilities for Structural Biology," October 19.
- **Robert Sweet,** Biology Department, "X-Rays and Neutrons for Biomolecular Structure Analysis," October 19.
- **Joseph Wall,** Biology Department, "Biochemistry in the EM Using the Scanning Transmission Electron Microscope," October 19.
- **Paul Falkowski,** Department of Applied Science, "Prospects for Genetic Engineering of Microalgae Products," October 20, 9:45 a.m., Berkner Hall.
- **Eugene Premuzic,** Department of Applied Science, "Biochemical Mechanisms of Microbial Transformation of Energy-Related Materials," October 20, 11:15 a.m., Berkner Hall.

For more information, call Public Affairs, Ext. 2345. — D.G.

Microbes (cont'd)

Conventional enhanced oil-recovery methods of steam and hot water flooding and carbon-dioxide treatment mobilize only some oil from wells. The remaining oil is enriched in heavy crude oils that are not mobile enough to be brought to the surface of the reservoir.

However, the BNL researchers have found that thermophilic microorganisms can produce natural emulsifying agents and metabolize heavy ends of crude oils, making the oil more soluble, more mobile, and, thus, usable.

Although microbial-enhanced oil recovery was conceived some time ago, prior to the research begun at BNL just over a year ago, only microbes that normally grow at low temperatures and pressures were used in that research. These microbes required external nutrients to live in oil wells, and they were less adaptable to reservoir conditions.

Using thermophilic microbes is more efficient because these microorganisms can live in the harsh environments of oil reservoirs, which are rich in brines and salts. Also, the elevated temperature and pressure conditions in oil reservoirs do not hamper these microbes from thriving there. The microbes use the oil itself as a source of carbon, which eliminates the need to "feed" the microbes.

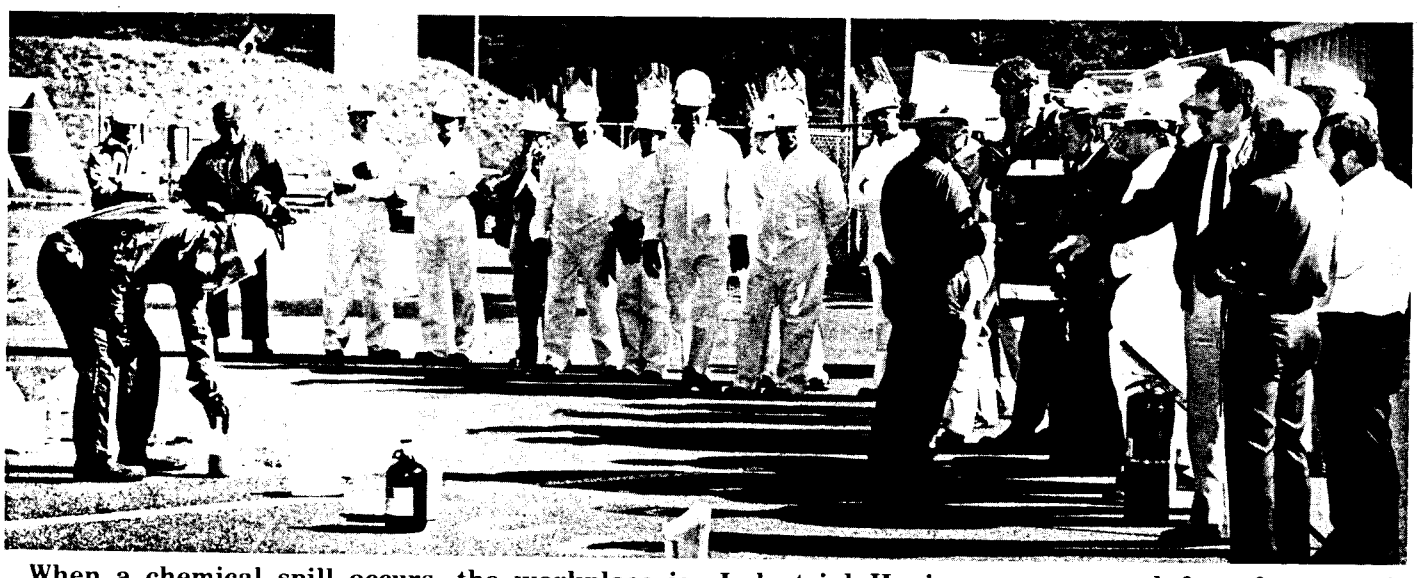
In this bioprocessing of oil, both the oil's organic constituents and its trace metals, which can interfere with its processing, can be made soluble. Thus, the microbes are useful for both oil recovery and processing.

Premuzic concluded, "The current and earlier pioneering work in this area have clearly shown that microbial-enhanced oil recovery is a feasible technology in dire need of further research. A detailed understanding of the underlying biochemical processes can be used to develop new technology."

—Diane Greenberg

[Greenberg recently joined the staff of the Public Affairs Office.]

Responding to Chemical Spills



When a chemical spill occurs, the workplace is disrupted, employees are endangered and property is threatened. Since the potential for a chemical spill exists wherever chemicals are used, it is vital that key personnel known how to manage chemical spills quickly, safely and effectively — especially if the chemical is hazardous.

That was the purpose of the Hazardous Chemical Spill Response Workshop held at the Lab on September 27-28 and given by representatives of the J. T. Baker chemical company. The two-day workshop was organized by Stan Alter, Safety & Environmental Protection Division (S&EP) training coordinator, and Barbara Royce, the group leader for environmental compliance in S&EP.

Twenty-six employees participated — 22 from S&EP's Building Safety Services, Environmental Protection, Fire, Hazardous Waste Management and Industrial Hygiene groups, and four from BNL's Plant Engineering Division.

On day one, the participants had classroom training focusing on different aspects of spills, from identifying various chemicals that one would encounter in a facility like BNL, to choosing the appropriate protective clothing.

On day two, the attendees had the opportunity to respond to and practice cleaning up small spills under controlled conditions. Here, a J. T. Baker instructor begins the second day's lessons by spilling small amounts of different chemicals inside the horseshoe-shaped clay areas. After demonstrations of how to neutralize these spills, the participants split into two groups, each of which spent the rest of the day gaining hands-on experience handling larger spills of hazardous chemicals.

— Photos on these pages by Roger Stoutenburgh

Coming Up

Igor Slesarev, of Moscow's Kurchatov Institute of Atomic Energy, will discuss "New Generation Power Reactors in the U.S.S.R. — Tendencies and Demands," in a Department of Nuclear Energy seminar on Wednesday, October 18, at 1:30 p.m., in the Hamilton Seminar Room, Bldg. 555.

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The annual Wine & Cheese Party of Brookhaven Women in Science (BWIS) will be held on Wednesday, October 18, at the Recreation Building, from 4:30 to 6:30 p.m. Members and nonmembers are invited as BWIS's guests; no reservations are necessary.

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The 1989-90 BERA Concert Series will begin on Thursday, October 26, featuring the Buswell-Parnas-Luvisi Trio. Their program will include the Saint-Saens Trio in F Major, Op. 18; Bernard Heiden's Trio (1956); and Trio in E-flat Major, Op. 100 (D.929), by Schubert.

The concert will begin at 8 p.m. in Berkner Hall. Tickets can be purchased at the door: $9, general admission; $6 students and those over 65; $5, children under 18; block tickets good for any series concert, $6 each for a minimum of five.

Cronkite (cont'd)

in 1940 from Stanford University.

After resigning his naval commission in 1954, Cronkite came to Brookhaven's Medical Department, as head of the experimental pathology division. He chaired the Medical Department from 1967 to 1979 and served as Professor of Medicine at the State University of New York at Stony Brook and Dean of Stony Brook's clinical campus at BNL.

At present, Cronkite has turned his attention to another blood disease, Acquired Immune Deficiency Syndrome (AIDS). He is studying the toxic effects of the most effective antiviral drug used in AIDS treatment, AZT, on formative blood cells.

Following the de Villiers award ceremony, Cronkite will deliver the lecture "Is Natural Background or Radiation From Nuclear Power Reactors Leukemogenic?"

"I have chosen to address the question of whether very low-level exposure to ionizing radiation increases the incidence of leukemia in human beings," says Cronkite. "High exposure is unquestionably leukemogenic. Using all sets of data in my analysis, I conclude that it is unlikely that one could detect an effect of an additional few millirem per year from industrial or medical sources."

Cafeteria Menu

Sunday, October 15
Brunch: 9 a.m. to 2 p.m.

Monday, October 16

Special: Pita pocket sandwiches		
Soup: Chicken noodle	(cup)	.75
	(bowl)	.95
Entree: Baked macaroni & cheese w/1 veg.		3.00
Entree: BBQ spare ribs & 1 veg.		3.10
Lite-line: Chicken piccata over noodles		3.10
Carvery: Hot roast turkey w/gravy		2.85
Grill: Pork roll w/cheese sandwich		2.55

Tuesday, October 17

Lunch special: Half-priced coffee with purchase of dessert		
Soup: Beef barley	(cup)	.75
	(bowl)	.95
Entree: Italian sausage hero		3.10
Entree: Baked ziti w/garlic bread & 1 veg.		3.00
Lite-line: Tuna noodle casserole w/1 veg.		3.10
Carvery: Roast leg of lamb		2.85
Grill: Chicken & cheese melt sandwich		2.95

Wednesday, October 18

Special: Top your own potato		2.00
Soup: Cream of broccoli	(cup)	.75
	(bowl)	.95
Entree: Baked meat loaf w/gravy & 1 veg.		3.10
Entree: Linguini w/clam sauce & 1 veg.		3.00
Lite-line: Cheese & vegetable casserole		2.95
Carvery: Hot corned beef sandwich		2.85
Grill: Cheese steak w/french fries		3.00

Thursday, October 19

Soup: Tomato rice	(cup)	.75
	(bowl)	.95
Entree: Stuffed cabbage	(two)	3.10
Entree: Kielbasi & sauerkraut w/1 veg.		3.10
Lite-line: Baked chicken Dijon w/1 veg.		3.10
Carvery: Baked Virginia ham sandwich		2.85
Grill special: Top your own foot-long hot dog		1.95

Friday, October 20

Special: Soup and sandwich		
Soup: Long Island chowder	(cup)	.75
	(bowl)	.95
Entree: Fish and chips		3.10
Entree: Chicken Parmesan w/1 veg.		3.00
Lite-line: Broiled filet of flounder w/1 veg.		3.10
Carvery: Hot pastrami sandwich		2.85
Grill: Tuna melt w/fries		2.00

Saturday, October 21

Duo special sandwich - Corned beef & pastrami		2.95

Two Welding Blankets Missing From 480

On Wednesday morning, October 11, someone inadvertently picked up two welding blankets from the loading dock on the south side of Bldg. 480. If you have these blankets, please return them, no questions asked, to Jim Hurst, Ext. 3844.

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PSI Meeting

"Let's Talk," an open discussion on topics ranging from work-related situations to problem-solving, will be featured at the next monthly meeting of the Upton Chapter of Professional Secretaries International (PSI). The discussion will be moderated by chapter vice president Nancy Griffin, a certified professional secretary in the Safety & Environmental Protection Division. The meeting will be held on Thursday, October 19, at 6 p.m., in Berkner Hall, Room C.

Arrivals & Departures

Arrivals

Louis G. Celenza ..... Physics
Mary J. Corso ..... Personnel
Paul F. Kemp ..... DAS
Daniel S. Metlay ..... DNE
Satoshi Ozaki ..... Director's Off.
Florence E. Quaite ..... Biology
Yue Shen ..... Physics
Amarjit S. Soni ..... Physics

Departures

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

Donald C. Borg ..... Medical
Michael Waligorski ..... Medical
Randall C. Furlong ..... Physics

New Photo Opportunities

In the beginning of October, Employee Photo Service (EPS) of Totowa, New Jersey, began supplying the film services available at the BERA Sales Office. Here, Louisa Barone, who runs the Sales Office, discusses some of the company's current promotions with EPS President Thomas Kearns. Until October 21, for example, employees can enter EPS's 4th annual photo contest, with a grand prize of a seven-day vacation for two in Switzerland. And with each roll of color film developed between now and November 2, an employee gets a coupon for a free 5x7 color enlargement. For more information or to use the new film service, stop by the Sales Office, weekdays from 9 a.m. to 2 p.m.

Inside Info

In September, **Samuel Krinsky,** who has been Deputy Chairman of the National Synchrotron Light Source (NSLS), agreed to serve as Acting NSLS Chairman, while a search for a permanent chairman is under way.

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Sidney Kahana, a senior physicist in the Physics Department, has been elected a recipient of a Senior U.S. Scientist Award from the Alexander von Humbolt Foundation.

The aim of this award is to promote scientific cooperation between scholars in the Federal Republic of Germany and other countries. Towards this end, Kahana will go to Frankfurt University for the first few months of next year, and for a couple of months for several subsequent years. There, he will work with Walter Greiner and Horst Stocker on problems in astrophysics and relativistic heavy ion physics.

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After declaring August 24 "Allie Kaplan Day" and making him honorary mayor, the Village of Quogue threw an early surprise birthday party that evening for BNL's oldest retiree, **Allie Kaplan**. He will turn 97 on November 14 and has been retired from the Lab since 1957. The party was attended by nearly 100 of his friends and family, including Kaplan's son Gene Kaplan, Alternating Gradient Synchrotron Department.

What's New at the Center Club

You sit down at your candle-lit table, and a waitress comes over to take your order from a tempting menu featuring omelettes, hamburgers, and a variety of sandwiches and side dishes.

Where are you? At the Brookhaven Center Club.

The candlelight, table service and expanded menu are the vanguard of the changes Service America Corporation (SAC) is introducing at the Center Club, which is open Sunday through Friday, from 5 to 11 p.m.

From October 22-27, SAC will hold its Oktoberfest, featuring a German bill of fare, along with appropriate giveaways.

Food Drive Thank-You

September was the second highest month yet for BNL's Food Drive: BNL employees donated 1,660 pounds of food for the needy in Brookhaven Town.

The BNL Food Drive is run in conjunction with Brookhaven Town and the INTERFACE Coalition of Corporations. The food that Lab employees donate is brought to St. Anthony's Bread-Parish Outreach program in Rocky Point, for distribution throughout Brookhaven.

The St. Anthony's program is coordinated by Sister Elizabeth Stringer, who earlier this month wrote Lab Director Nicholas Samios "to express to you and all the employees of Brookhaven National Lab my sincere gratitude for the generous donations of food delivered to us each month.

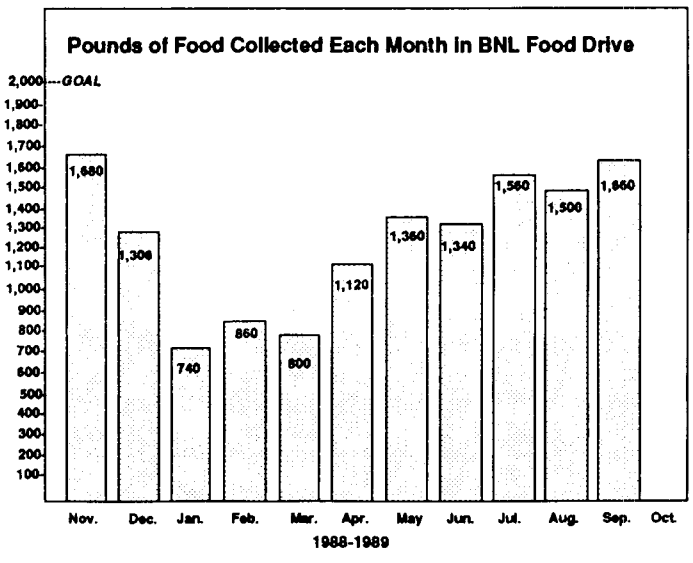
"During the month of September 1989, 404 persons were fed . . . Not only do we provide food to needy families with children . . . but we were also able to feed ten frail elderly during this month.

". . . when many families found themselves depleted financially due to the added costs of children returning to school, we at St. Anthony's Bread found our shelves also depleted. The arrival of your truck and 20 bins of food . . . was a welcome sight."

Now that school's in, the cold weather is here. Imagine having to make a choice between heating your house and feeding your family? Help someone out of that bind: Bring in a generous donation next week, October 16-20, for the October Food Drive.

And don't forget that there are other ways to give. Food Drive Chair Carole Kerr reports that she has already received checks totaling $60 from the Community Group Cash Refund Program run by Finast Supermarkets and King Kullen Supermarkets. When Finast or King Kullen customers give their register receipt tapes to the Food Drive, Kerr can submit them to the supermarkets, in increments of $1,000 or more, for a 1 percent cash refund. So send those tapes to Kerr, Bldg. 460, Ext. 7100.

By the same token, if you cannot shop for the Food Drive yourself, but would like to contribute, just send a tax-deductibule donation to Kerr. When your shopping's done, you'll get a receipt.



Softball Champs

The Dirty Sox ran away with the honors in League III: (front, from left) Dennis Carlson, Gary Danowski, Sol Pearlstein, John Ripka, Richard Wilke; (back, from left) Ernest Schmitt, Kevin Wyman, Dennis Nordstrom and Edward Stein. Not pictured: Louis Cannizzo, David Dougherty, Paul Falkowski, Ronald Johnson, Peter Lane and William Llope. Photos by Stoutenburgh

Just like their American League East namesakes, the Blue Jays took top honors in their division, League I: (front, from left) Juan Alvarez, Larry Musso, Louis Nieves; (back, from left) Gerry Shepherd, George Oldham, Bob Medina, Frank Palmeri and Jerry Hobson. Not pictured: Jim Forkin, Dennis Hall, Chris Tersigni, John White and Larry Witt.

Note to Employees:

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

Bowling

White League

Caryl MacDougall had a 223/183, Jeanne Penoyar 202, Mary Scheidet 187, Mary Addessi converted the 4/6/10 split.

Purple League

Ted Erickson had a 241, Paul Callegari a 219 and also converted the 8/10 split, Ed Sperry IV 200, Nancy Erickson 190.

Red/Green League

Sept.26: R. Mulderig had a 258/222 (675 scratch), N. Combatti 214/201, H. Dawson 212, M. Guacci 207, E. Sperry IV 204, R. Larsen 203/200, H. Marshall 201.

Oct.3: E. Sperry IV had a 246, H. Marshall 234/203, (614 scratch), N. Combatti 220, K. Asselta 209, G. Meinken 208, K. Riker 201, H. Dawson 200, J. Morris 200, R. Sick 200.

The main attraction in League II was the Magnuts: (front, from left) Dave Cattaneo, John Benante, Augie Hoffman, James La Bounty, Domenick Milidantri; (back, from left) Dan Schiappa, Louis Russ, John McCaffrey, Thomas Dilgen, Steven Bubka, Arthur Wernersbach, Michael Anerella, Mike Morrow, Andy Marone and Gary Whitbeck. Not pictured: Danny Martin and Henry Strelecki.

The League V championship went back to the Source: (front, from left) Boyzie Singh, Lynette Finlay, Henry Diaz, Maryellen Hubner, Eileen Morello, Mary-Grace Meier; (back, from left) Ed Sperry IV, Ken Asselta, John Butler, Terry Strelecki and Pat Cahill. Not pictured: Don Litcher, Sandy Litcher, Jim Meier, Joe Sheehan and John Usher.

Victory in League IV belonged to the Snakebites: (front, from left) Barbara Simpson, Susan Cataldo, Dollie Johnson, Gina Flippen, Nancy Harris, Colleen Magee, Larry Musso; (center, from left) Mickey Haller, Charlie Johnson, Sheree Flippen, Herbie Harris; (back, from left) George Oldham, John Niemczyk, Tony Mendez, Juan Alvarez and Clarence Wilkins. Not pictured: Michael Furey, Izzy Garcia, Darren Harris, Gary Magee and Junior Santiago.

Microcomputer Club

The BNL Microcomputer Club will present an introduction to the Apple Macintosh on Thursday, October 19. Mario Cavallaro, BNL's representative from Custom Computer Specialists, will demonstrate and discuss the capabilities of the Macintosh line, as applied to BNL. Video and slides will be used, and questions will be encouraged. A Macintosh technical expert will also be present to field difficult questions, although the main focus of the session is for the novice.

The meeting will take place at noon in the CCD seminar room, Bldg. 515. Please note the change in normal meeting location. All those interested are invited to attend. Bring your lunch if you wish. For more information, contact Frank Salzano, Ext. 4458.

Shopping in Reading: Deadline Wednesday

If you want to take a ride to Reading, Pennsylvania, on Saturday, November 4, for a BERA-sponsored shopping spree to the outlet capital of the East, you must purchase your ticket by Wednesday, October 18. Tickets, at $22 each, are now on sale at the BERA Sales Office in Berkner Hall, from 9 a.m. to 2 p.m., on a first-come, first-served basis.

The bus will leave the Brookhaven Center promptly at 7:30 a.m. and leave Reading at 5 p.m. There will be an additional stop at the park-and-ride at LIE Exit 63 if needed. The trip does not include lunch or a lunch stop, so please bring along your own snacks or plan to visit a nearby restaurant.

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.

The vacancies listed below have been exempted by the Director's Office from the current freeze on open requisitions.

SCIENTIFIC RECRUITMENT - Candidates may apply directly to the department representative named, or through the Office of Scientific Personnel, Ext. 7813.

POSTDOCTORAL RESEARCH ASSOCIATE - Mathematical Sciences Division, for research problems arising out of BNL programs in the physical and environmental sciences. Contact: R.F. Peierls, Department of Applied Science, Bldg. 515.

STAFF POSITION and POSTDOCTORAL RESEARCH ASSOCIATE - (two positions) inorganic chemistry, to synthesize and characterize organometallic clusters for use in labeling biomolecules including DNA and antibodies, with applications to electron microscopy and medicine. Contact: J.F. Hainfeld, Biology Department, Bldg. 463.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees only.

4113. ADMINISTRATIVE POSITION - Requires BBA or equivalent and a minimum of three years' related experience. Expertise using computers for business applications necessary. Substantial experience with Laboratory business procedures highly desirable. Experience developing automated systems very desirable. Will report to Division Manager with primary functions in budget planning and control, financial analysis, safety coordination and maintenance management. Staff Services Division.

4114. TOOL AND INSTRUMENT MAKER, GROUP LEADER - AGS Staff Shop, Central Shops Division.

4115. TOOL AND INSTRUMENT MAKER, GROUP LEADER - Instrumentation Staff Shop, Central Shops Division.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside applicants.

4116. SCIENTIFIC ASSOCIATE POSITION - Requires BS/MS in chemistry with knowledge of HPLC, NMR and bio-organic chemistry. Will synthesize tungstate and gold clusters for use in scanning transmission electron microscopy (STEM) and medical applications. Biology Department.

4117. SR. STATIONARY ENGINEER - Requires demonstrated experience in the maintenance, repair and operation of high pressure boilers firing #6 fuel oil. Current stationary or marine engineer's license highly desirable. Plant Engineering Division.

Motor Vehicles & Supplies

88 HYUNDAI EL GL - 3-dr., h/b, red, 5-spd., p/w, sunroof, am/fm cass., 15k mi., v.g. cond., asking $5,000. Ext. 4629 or 929-4258 after 6 p.m.

87 MAZDA 323-LX - 4-dr., a/t, a/c, p/s, am/fm cass., sunroof, 5 yr. service contract, $5,000. John, Ext. 3147 or 924-1038.

87 MAZDA RX7 - 5-spd., a/c, power sunroof, tinted glass, am/fm cass. w/equalizer, alloy wheels, alarm, mint cond., $9,500. 667-9622 days.

86 SUBARU GL10 - 4wd turbo wagon, 70k mi., 3 yr. warranty, mint cond., every option, asking $8,500. Henry, Ext. 4547 or 727-7227.

86 YAMAHA VENTURE ROYALE - loaded, excel. cond., 20k mi., $5,200. Jim, 447-1381 after 5 p.m.

84 DODGE OMNI - 2.2L, a/t, black, a/c, p/s, p/b, clean in/out, runs well, asking $1,400. Joe, Ext. 3893 or 653-4836.

84 DODGE OMNI - 2.2L, 5-spd., am/fm cass., runs very well, $950 neg. Cliff, Ext. 4713/5302 or 563-8931.

84 OLDS OMEGA - 65k mi., 2-dr., p/s, p/b, a/c, am/fm cass., excel. cond., $3,500. Jim, Ext. 4606 or 654-5049 after 6 p.m.

84 TRANS AM - V-8 305, 60k mi., p/s, p/b, p/w, p/l, p/seats, a/c, a/t, overdrive, tilt wheel, Louvers, am/fm cass., $6,800. Lois, Ext. 4904.

83 PONTIAC SE2000 - p/s, p/b, a/t, a/c, 78k mi., good cond., sporty, asking $2,800. Xuan, Ext. 3677.

See supplement for more classified ads.

Classified Ads (cont'd)

82 BUICK CENTURY - 4-dr., limited, V-6, a/t, all power, excel. in/out, high mi., $2,000. Tony, Ext. 2462.

82 CHEVY CITATION - m/t, 83k mi., stereo cass., good cond., asking $900. Doug, Ext. 2945.

82 HONDA ACCORD LX - p/s, p/b, a/c, stereo cass., excel. cond., asking $3,200. Ext. 3175.

82 MUSTANG - 4-cyl., 4-spd., sunroof, h/b, tinted windows, good cond., $1,600. Glenn, 289-0413.

82 RELIANT - s/w, m/t, new clutch & tires, engine & body in good cond., $1,395. Bill, Ext. 5320 or 751-1881.

82 SUBARU GL - 4-dr., runs well, high mi., 25 mpg, must sell, asking $1,200 or best offer. Joann, Ext. 4968 or 472-6742.

81 BUICK SKYLARK - 80k mi., 4-dr., looks good, runs well, must sell, $1,400. Ramesh, Ext. 4410 or 7684.

81 DODGE DIPLOMAT - new exhaust, rebuilt trans., a/c, p/s, p/b, excel. tires, needs header, $700. Dave, Ext. 3093 or 281-0062 eves.

81 ESCORT - runs well, high mi., am/fm, 4-spd., $500. Ext. 2015.

81 HONDA ACCORD - 2-dr., 5-spd., radio, new brakes, good cond., 93k mi., $1,150. 727-7741.

81 PLYMOUTH TC3 - h/b, 5-spd., white, good cond., must sell, needs some work, $800. Phil, Ext. 286-1348.

80 CHEVY CITATION - a/t, p/s, p/b, new am/fm stereo, tape deck, excel. cond., 77k mi., $1,190. Ext. 5076 or 744-4615.

80 CHEVY MONZA - 4-cyl., a/t, a/c, runs well, $400; 1975 F-250 4wd rebuilt a/t, $1,800. Dave, 369-0517.

80 MERCURY COLONY PARK WAGON - needs work, $700. 325-0567.

87 WILDERNESS TRAILER - 34', factory options, 25' awning, queen-size bed, sleeps 6, like new, $12,500. 654-0810.

86 HONDA SPREE MOPED - w/helmet, $250. 567-5131 after 6 p.m.

86 HYUNDAI EXCEL GL - h/b, 5-dr., 5-spd., am/fm, $3,100. Leo, Ext. 4615.

86 FORD TAURUS - 6-cyl., 50k mi., p/w, p/l, a/t, digital dash, elec. seats, $8,000. Scott, 331-1349.

86 MAZDA B2000-LX PICKUP - long-bed, fiberglass cap & bedliner, ac, p/s, cruise, 24k mi., 1 yr. warranty, excel. cond., $6,000. 751-8240 eves.

85 NISSAN 300ZX 2+2 - midnight blue, low mi., warranteed to 50k mi., $10,000 neg. Sue, Ext. 7235 or 395-3529.

84/85 TOYOTA VAN - 7 pass., p/s, dual ac, 5-spd., overhead, loaded, 63k mi., excel. cond., $6,000. Ext. 3058 or 286-8338.

84 PLYMOUTH RELIANT WAGON - a/t, p/s, p/b, ac, tilt wheel, $1,950. John, Ext. 2460 or 281-2471.

84 HONDA AERO 125 MOTOR SCOOTER - 8k mi., new battery, extras, good cond., reliable, $500 firm. Vita, 277-0464 or Frank, Ext. 7519.

84 EAGLE - 4wd, 4-dr. wagon, a/t, p/s, ac, am/fm/tape, roof rack, low mi., asking $4,900. 473-2473.

84 DODGE CONQUEST - ac, cruise, new tires, brakes, am/fm cass., leather seats, silver/black, neg. Mike, 878-0842 after 3 p.m.

84 OLDS OMEGA - 65k mi., 2-dr., p/s, p/b, ac, am/fm cass., good cond., $3,300. Jim, Ext. 4606 or 654-5049 after 6 p.m.

84 OLDS CIERA LS - 53k mi., ac, p/s, p/w, p/l, excel. cond., warranteed to Jan. 1990, $3,200. Tom, Ext. 3531.

84 MAZDA RX7 GSL-SE - leather int., sunroof, loaded, 13B engine, new brakes, clutch, Eagle VR tires, rustproofed, $7,350. 751-8240 eves.

83 SUBARU - 4-dr. wagon, m/t, am/fm, asking $2,200. Ext. 2604.

82 MONTE CARLO - burgundy, mint in & out, p/s, p/b, ac, V-6, 52k mi., must see, must sell, $2,200. Ext. 5010 or 744-8234.

81 OLDS WAGON - loaded, 93k mi., excel. cond., $1,800. Don, Ext. 4821 or 286-2267 after 6 p.m.

81 SUBARU WAGON - 4wd, am/fm, ac, 83k mi., excel. cond., well kept, serviced, $2,500. David, Ext. 3640.

81 HONDA ACCORD - 4-dr., 5-spd., $1,100. Anne, 475-5543.

81 OMEGA - 95k mi., ac, new a/t, battery, alt., runs well, $450. Ext. 3285 or 3979.

81 TOYOTA COROLLA - 4-dr., am/fm, 5-spd., 107k mi., runs well, $1,000. Sue, Ext. 5156 or 289-6844.

81 HONDA ACCORD - 5-spd., 4-dr., p/b, p/s, am/fm stereo cass., new brakes, excel. running cond., asking $1,850. Gestin, Ext. 4965.

80 REGAL - tan, 2-dr., a/t, p/s, ac, p/b, $1,800. 878-9369 after 6 p.m.

80 FORD PINTO - needs engine, $200; '79 Dodge Aspen, 6-cyl., a/t, for parts; '80 VW Rabbit, diesel, for parts. 654-4661 eves. & wknds.

80 BUICK SKYLARK - p/w, p/b, ac, good cond., needs 2 tires, 72k mi., $1,500. J. Axe, Ext. 3821.

80 BUICK SKYLARK - 4-dr., ac, a/t, p/s, p/b, 112k mi., 25 mpg, reliable, absolutely no rust, asking $850. Alan, Ext. 4237.

79 HONDA 500CX MOTORCYCLE - runs well, looks good, $325. Frank D., Ext. 2022 or 399-4480.

79 DATSUN 510 - 88k mi., very reliable transportation, best offer over $600. Henry, Ext. 3817 or 874-2775.

78 TOYOTA CELICA GT - h/b, ac, runs well, $525 or best offer. 369-0533.

78 DATSUN 280Z - all new in & out, looks good, runs well, $2,200. Ext. 4615.

78 DATSUN 200 SX - 5-spd., ac, reliable transportation, needs muffler & body work, $250. Lew, Ext. 5193 or 928-4863.

78 JEEP CJ5 - 3-spd., V-8, soft top, 4 spare sport rims, high mi., mechanically excel., body fair, $2,000. George, Ext. 5288.

78 PONTIAC FIREBIRD - motor A1 cond., very clean in & out, mint cond., must see, asking $2,500. Ext. 5105 or 286-1615.

74 MERCURY COUGAR - 350 V-8, runs, $150. 821-0250.

73 FORD GRAN TORINO - V-8, a/t, p/s, p/b, new tires & battery, excel. cond., $950. Charles, 499-7912.

72 DODGE DART - a/t, ac, p/s, p/b, slant 6, 50k mi. on engine, well maintained, incl. free car parts, $750. 286-8724.

72 DODGE POWER WAGON PICKUP - 1 ton, 4x4, 9' bed, 11' camper, great shape, many extras. Ext. 4033.

69 VOLVO CLASSIC 1800S - sports car, dual carb., 4-spd. w/o.d., red/black int., good cond., $2,500. 924-6619 after 5 p.m.

68 LINCOLN CONTINENTAL - white, black vinyl top, $1,000. Keith, 474-3863.

57 OLDSMOBILES - 2, 2-dr. Holiday coupe & 4-dr. sedan, both 371 V-8, a/t, extra trans. & drs., many new parts in boxes. Ray, Ext. 3536.

SUZUKI QUADRUNNER - low mi., many extras, perfect cond. 878-6074 eves.

HYUNDAI EXCEL GL - 4-dr., am/fm/cass., white, sunroof, good cond., $2,000 neg. 395-6235.

TRANSMISSION - Borg Warner Super T10, 4-spd., 2.88 first gear, asking $500. John, Ext. 4034.

TIRES - 4 Uniroyal Tiger Paws, mud & snow, P195/75R15, low mileage, 4/$80. Eric, Ext. 5231.

TIRE - new, 721 Firestone, 235/75R15, Eldo rim, $40. Ernie, 588-4987.

POP-UP CAMPER - Starcraft, sleeps 8, good cond., $400. 744-8226 eves.

WHEEL RIM - 1972 Blazer, 6 hole. Richard, Ext. 3254.

Boats & Marine Supplies

28' SLOOP KIT - 90% completed, dark blue hull, Holman & Pye design, solidly built, sacrifice, $18,000 neg. Jim, Ext. 4584.

22' CATALINA SAILBOAT - 3 sails, trailer & motor, good cond., asking $4,500. 929-8912.

22' TYLERCRAFT SLOOP - w/2 suits of sails & furling jib, 6-h.p. motor, movable keel, sleeps 6, in water, $2,000. Sue, Ext. 7235 or 395-3529.

Furnishings & Appliances

BEDROOM SET - Paul Bunyan, beautiful, 5 pieces, w/4-poster bed, excel. cond. Nancy, Ext. 3309.

SOFA & LOVESEAT - Rowe, contemporary, v.g. cond., $250. Ext. 2616 or 751-5868.

MATTRESS - twin-size, Stearns and Foster, excel. cond., $125. Susan, Ext. 7716.

DINING ROOM TABLE - Queen Anne, Ethan Allen, w/6 chairs, solid cherry, quality, $1,800. Karen, Ext. 5347.

LIVING ROOM SET - 6-piece modular, brown, $350; lt. brown tweed recliner, $80; couch w/slip cover & matching valance. 589-1893 after 5 p.m.

SOFA - chair & rocking chair, hardwood frames, w/removable covers on cushions, country fabric, all v.g. cond. Frank, Ext. 3120 or 727-8992.

FURNITURE - chair, $30; queen-size bed, $100; coffee table, $30; food blender, $10; more. Steve, 874-3729 eves.

BEDROOM SET - Burlington, girl's, desk, dresser, hutch, cheval mirror, daybed, hand-painted detail, light pine, $500 neg. Bill, Ext. 7625 or 732-9102.

REFRIGERATOR - dishwasher; electric range, all Kenmore; s/s sink w/standard fixture, all v.g. cond., $180/all. Ext. 2146.

MICROWAVE - Sharp, $150; king-size mattress frame, $90; garden table chairs, $50; Gorilla guitar amplifier, $70; food processor; plants. Ext. 5469.

ELECTRIC RANGE - Magic Chef, 20", harvest gold, $100. pager 0925 or 728-4495.

AIR CONDITIONER - brand-new, still in box, 1989, 6,600 Btu, energy-efficient, window unit, $290. Lenny, Ext. 4968.

MIXER - Kitchen Aid Proline Deluxe, 4½ quarts, new, still in box, asking $175. 654-4661 eves & wknds.

FREEZER - 21 cu. ft., 18 yrs. old, 741 lb. capactity, avocado green, excel. cond., $100. Ext. 3058.

Tools, House & Garden

BATTERY PACK - Black & Decker, univolt 9.6V for cordless drill, new, $25. Bill, Ext. 4986 or 563-1940.

KEROSENE HEATER - Omni 105, 18,000 Btu, $90; propane convection heater, 75-1215 Btu, $75; heat lamp, ultraviolet & infrared, $90. Tony, 269-9510.

FIREWOOD - seasoned, split, stacked, delivered, $135/full cord, $75/half cord. 698-2501 or 369-0645 after 5 p.m.

TUNE-UP CENTER - Snap-On, 3 meters, $250; power brake bleeder, $125; 20 ton air-assisted jack, $250. 474-5715.

LAWN SWEEPER - Lambert, 40", sweep in good shape, push or tractor, $50. Rick, Ext. 3932.

Sports, Hobbies & Pets

PIANO - Lester Betsy Ross, spinet, w/bench, excel. cond., $700. Tony, Ext. 3658 or 929-4903 after 6 p.m.

10' SURF ROD - 2 pc., Daiwa graphite w/line, Ryobi SX5M reel, like new, orig. $70, sell for $40. Tony Monte, Ext. 2050.

CAMERA - Minolta Maxxum 7000, 50mm/1.7 flash, large AA battery, case, $300. Marc, Ext. 4574 or 874-3729.

ELECTRIC GUITAR - Memphis, red, excel. cond., $75. Bill, Ext. 7625 or 732-9102 after 6 p.m.

CLARINETS - Wurlitzer, student model, $125; Signet, professional, $250. Jim, Ext. 3372 or 821-0250.

BURMESE PYTHON - 10', w/100 gallon tank, 6'x1½'x1½', screen top, 2 hot rocks, best offer. Michele, Ext. 2907, or Hans, 298-4148 after 6 p.m.

FLUTE - Bundy edition, cobalt plated, like new, great for beginner, $125 firm. Tim, 281-7873 days & eves.

UNIVERSAL WEIGHT SET - D.P. 4500, like new, orig. $500, sell for $150. 874-8665.

FISHING EQUIPMENT - Quantum med. action rod, w/Ambassador light plus reel, $100; V-mag reel, $35; all new, $125/all. Emil, Ext. 4289.

PROJECTION LENS - for Kodak Carousel 100-150 zoom, flat field, new cond., $49. I. Meyer, 929-4326.

RACING GO-KART - 5 h.p. Briggs motor, disc brakes, slicks, asking $800. John, Ext. 4034.

DOG CRATE - Midwest model 89, epoxy-coated pan, 28"w x 48"l x 36"h, like new, orig. $110, sell for $45. Jim, Ext. 7971 or 286-1358.

DRYSUIT - Poseidon, man's large, like new, must sell, asking $500. 474-5715.

PUPPIES - golden retriever, 1 male, 2 females, shots, AKC papers in mail, 10 wks. old. Tirre, Ext. 4638 or 281-0360 after 5:30 p.m.

BMX BIKE - Cobra, $50; Olin 931 skis, 175cm, Tyrolia bind., $75; Blizzard Umo skis, 170cm, Tyrolia bind., $70; more. Dave, 744-7981.

Audio, Sports & Video

COMPUTER - Commodore PC10-II, XT clone, 640k, 5¼" & 3½" drives, never out of box, must upgrade, $850 or make offer. Keith, Ext. 3411.

COMPACT STEREO - Yorx Q1200, radio, disc, 2x tape, fast, dubbing, speakers, $50; 19" GE TV, remote control, $150. Steve, 874-3729 eves.

TURNTABLE - AR model 77XB, w/new Grado cartridge, excel. cond., $90. Ext. 4153 or 732-5829.

Miscellaneous

FRYING PAN - new, $5; silver rings, $5; silver bracelets, $10; glass Chevy truck, $10; brass mouse, $5. Kathy, 744-2203.

BABY'S SNOWSUITS - 2, girl's size 18 mos., both pink, excel. cond., buy 1 or both. 423-8384 eves.

WHITE-CROSS MINK COAT - stunning, full length w/hat, like new, $3,300 neg. John, Ext. 4203.

SOUP - seafood bisque, homemade, thick, delicious, fattening, $12/quart. Ruth Ann, Ext. 7774 or 929-6235.

Lost & Found

FOUND - keys on TransAm key ring, by Bell Avenue & railroad tracks. Joe, pager 0925 or Ext. 2898.

Free

78 DATSUN 510 - s/w, needs clutch, you take away. Lew, Ext. 5193 or 928-4863.

CLAM BOAT - 3-spd. woman's bike, $25; punching bag, $15; telephone table w/attached chair, $15. Ext. 2259 or 878-0939 after 6 p.m.

CHICKENS - John, Ext. 3675 or 924-3528.

KITTENS - affectionate, 4 mos. old, 1 male & 1 female gray tiger stripe, 1 female jet black. Rob, 298-2166.

Yard Sale

SHIRLEY - 5-family, Sat., Oct. 14, 10 a.m., 141 Forest Ave., rain or shine.

Car Pool

COMMACK - Exit 53 or 54 or Commack Rd. Ext. 4615 or 543-7065.

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 - 3-bdrm. ranch, furnished, l/r, d/r, eik, den, 2 baths, gar., $1,000/mo. + util. Fred, Ext. 3155

CENTER MORICHES - 2-bdrm. apt., l/r, d/r, first floor, d/w, f/p, priv. ent., $750 + sec. 878-0897.

CENTER MORICHES - 3-bdrm. house, eik, bath, l/r, yard, $650/mo. + util., sec. 878-1115.

CENTER MORICHES - waterfront, furn. house, l/r, d/r, kit., bath, bdrm., deck, appl., no pets, owner, $575/mo. Len, 878-6372.

EAST SETAUKET - 4 bdrms., 1½ baths, fully furnished & equipped, 3 Village SD, $1,200/mo., immed. occupancy. Ben-Zvi, Ext. 5143 or 473-4938.

PORT JEFFERSON VILLAGE - 4-5 bdrms., l/r w/fp, d/r, eik, family, study, 2½ baths, cac, 2-car gar., walk to harbor & village. 331-3846 eves.

PORT JEFFERSON VILLAGE - 3-bdrms., l/r, eik, bath, nonsmokers, no pets, $950/mo. + util. Ext. 3705 or 689-1877 eves.

RIDGE - studio apt. w/priv. sun-deck ent., full bath, cable and new kit. appl., carpeting, track lights and ceiling fan, $550/mo. all. 744-2118 or 744-4615 after 6 p.m.

ROCKY POINT - large studio apt., cable, 15-20 min. from Lab, near shopping plaza, $400/mo. includes util., avail. immed., 1 mo. sec. 744-9089, leave message.

ROCKY POINT - unfurn. studio apt., one person only, sep. ent., kit., bath, gar., $400/mo. + sec. 928-7993 after 5:30 p.m.

NORTH SHIRLEY - unfurn. 1-bdrm. apt., w/w, full bath, l/r-kit. combo, 3 miles to Lab, $600/mo. incl. utilities & cable. 395-9112.

CATSKILLS, NY - 3-bdrm. chalet w/sleeping loft, fully furn., near Hunter & Windham Mts., great for hunting & skiing. Ben, Ext. 3642 or Kay, Ext. 4501.

KISSIMMEE, FL - 2-bdrm. fully equipped villa, 2 baths, full kit., sleeps 6, 2 pools, playground, 2 mi. to Disney, week of April 15-22. John, 924-4262.

ORLANDO, FL - 3-bdrm. condo, 5 min. to Disney World, sleeps 8, 2 baths, full kit., pool, avail. Nov. 25 - Dec. 2. Shimon, Ext. 7038.

SPRINGHILL, FL - 2-bdrm. house in planned community, west coast, north of Tampa, 2 golf courses, lakes, 5 mi. from Gulf Beach, fully furnished, $350/mo. + util. Ext. 4530 or 261-2719.

HILTON HEAD, SC - 2-bdrm. condo, 2 baths, sleeps six, tennis, golf, beach, pool, Oct. openings, $400/wl. 689-5378.

For Sale

COMMACK - 4-bdrm. Cape, full fin. bsmt., new furnace, driveway, roof, hardwood floors, fully fenced, freshly painted. 499-1056.

MASTIC - 3-bdrm. ranch, ¼ acre, 1½ baths, den, fin. bsmt., deck, appl., house fan, 3 ceiling fans, shed, fence, near school, shopping, 15 min. to Lab, ask. $115,000. 265-2366 after 6 p.m. wknds.

MASTIC BEACH - 3 bdrm. ranch on 80'x100' w/garage & Florida rm., low taxes, financing avail., city water, rent while buying. Sue, Ext. 7235 or 395-3529.

MASTIC - 3-bdrm. Cape, 1 bath, kit., l/r, d/r, w/w, appli., encl. patio, bsmt., attic, fenced, extras, mint cond., low taxes, SCWA, enery-efficient, $110,000. Ext. 4269 or 399-4356.

MASTIC - 0.4 acre lot, 80'x200', all permits, city water. Larry, Ext. 5611.

MIDDLE ISLAND - Lake Pointe, 2 bdrm., l/r-d/r, cac, gas heat, wood deck, pool, tennis courts, clubhouse, ask. $81,000, neg. Bob, 924-7316.

NORTH PATCHOGUE - 3-bdrm. ranch, large eik, low maint., fuel & taxes, bsmt., appl., landscaping, louvered porch, i/g sprinkler, much more, asking $132,900. Arnie Kreisberg, Ext. 2040.

PORT JEFFERSON VILLAGE - 9 rooms, ½ acre cul-de-sac, 2½ baths, cac, 2-gar., priv. beach & club, walk to village & harbor, reduced $269,000. 331-3846 eves.

QUOGUE - mobile home, adult park, 55 and over, 12'x55', 2 bdrm., l/r, eik, 1 bath, washer, storage, reasonable. 878-4350.

ROCKY POINT - 3-bdrm. high ranch, l/r w/brick fp, cath. ceiling, d/r, large kit., 2 baths, bsmt., cac, deck, 2-car gar. w/elec. doors, beach rights, 0.34 acre, $162,900. Kochman, 744-1057.

ROCKY POINT - 4-bdrm. Cape, l/r, large eik, 1 bath, new appl., wood floors, full bsmt., new cedar siding, deck, 100'x100' lot, beach rights, $129,990, eves., after 7 p.m. Jay 369-8374.

SELDEN - Village in the Woods, one bdrm. deluxe co-op, upper unit, eik, d/r, l/r, pvt. balcony, asking $75,000. 696-5386.

SETAUKET - 7 rm., 2 baths, custom-designed & built by technical expert owner for own use, 0.86 acre, rare plants, deeded beach rights. 473-4666.

WEST SAYVILLE - 4-bdrm. high ranch, 8 rms., l/r, d/r, 1½ baths, 2-car gar., ac, ¼ acre, Sayville SD, avail. immed., $152,000. Meade, Ext. 3452 or 499-8816.

YAPHANK - 3-bdrm. condo, 2½ baths, fin. bsmt., wood floors, ac, 5 min to Lab, $120,000. Ext. 4125 or 751-2216 after 6 p.m.

FORT LAUDERDALE, FL - 2-bdrm. mobile home, double wide, 2 baths, l/r, d/r, eik, w/w, ac, washer/dryer, furn., screened-in porch, $17,000. George or Carol, 475-6333.

FORT PIERCE, FL - mobile home, adult park, completely furnished, 2 bdrm., 2 full baths, $15,000 or best offer, will hold mtg. if necessary. Marcella, 407-464-7102 or 461-1226.

LAUDERDALE LAKES, FL - 1-bdrm. condo, 1½ baths, eik, screened sun porch, $30,000. 883-6198 or 744-8632.

MADERIA BEACH, FL - 1-week time share in Commodore Beach Club, Gulf view, pool, jacuzzi, sleeps 4 adults, asking $5,000, must sell. 474-5715.

NEWPORT RICHEY, FL - 2-bdrm. condo, 2 baths, garage, Florida rm., golf, tennis, short walk to clubhouse & pool, $57,500. Jodi Greco, 928-9136.

NORTH LAUDERDALE, FL - townhouse, waterfront, 3-bdrm., 2½ baths, all appl., new wallpaper, tennis courts, clubhouse, low taxes, $92,000. Jack, 395-4062.

PALM COAST, FL - ¼ acre lot, 24 miles north of Daytona, $9,995 or $1,995 and assume. Thomas Nolan, Ext. 5265.

Wanted

STEREO COMPONENTS - old tubed Marantz or Macintosh, working or not. Jim, Ext. 4584.

HOUSEMATE - to share 10-rm. furn. house in Shirley, conven. to shopping, 9 miles to Lab, woodburning stove, $450/mo. incl. all. 399-1868.

HOUSEMATE - to share 3-bdrm. furn. house in Mastic Beach, w/absent tenant, 15 min. from Lab, $480. Daniel, 281-4372 or (212) 777-3449.

PERSONS - to ski or shop Montreal or Quebec, Feb. 16-19. Bea, Ext. 3642 or 732-2472.

CLOTHES DRYER - color TV & bedroom set. Joanne, Ext. 3711.

ROOMMATE - female to share 2-bdrm. furn. apt., Rocky Point, $350 + ½ util. Shelly, 821-6165.

TRAINS - Lionel & American Flyer & accessories, top dollar paid. Carole, Ext. 7100.

WET SAW - for cutting bricks, buy or rent. Tony, 698-9274.

ENGINE - 302 Ford V8 standard, in running cond. Ext. 4028.

BABY-SITTER - for 11 mo. old boy, on-site or near Lab, 3 days a week. 874-3652.

HOUSEMATE - share 2-bdrm. condo in Middle Island w/professional female, 5 min. to Lab, $450/mo. + ½ util. 751-8351 eves.

On-Site Services

FRIENDLY GULF SERVICE - weekly special: winterize power, flush radiator, add 1 gal. antifreeze, check all hoses, $29.95.

Classified Ad Policy Deadline is 4:30 p.m. Friday for publication Friday of the following week.