BROOKHAVEN BULLETIN
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BROOKHAVEN NATIONAL LABORATORY

Clinic Welcomes Breitenstein as New Head

The Occupational Medicine Clinic (OMC) welcomed a new Head on Monday, April 17: He is physician Bryce Breitenstein, former president of the Hanford Environmental Health Foundation (HEHF) in Richland, Washington. HEHF is the occupational health contractor at the Department of Energy's Hanford Site, which includes the Hanford Nuclear Reservation and the Pacific Northwest Laboratory.

Breitenstein succeeds physician Laura Sbarra, who had been OMC Head since 1979. Sbarra has chosen to become one of the OMC's three staff physicians, along with Emmanuel Dador and Khem Fatimi. In addition to the medical staff, the OMC also encompasses the Employee Assistance Program, headed by Clinical Psychologist Jannifer Hill, and the Health Promotion Program.

Laura Sbarra

"We are fortunate that, after giving ten years of excellent leadership to the Clinic, Dr. Sbarra will continue to provide medical assistance to employees," said Richard Setlow, Associate Director for Life Sciences.

"And we are doubly fortunate to have someone of Dr. Breitenstein's caliber to succeed her," Setlow continued. "He has earned a national reputation as a fine physician for his handling of the well-known 'McCluskey case.' In addition, his tenure at Hanford has brought him into contact with situations similar to those he will encounter at Brookhaven. We welcome him warmly."

In August 1976, two years after Breitenstein arrived at HEHF, 64-year-old Hanford worker Harold McCluskey accidently received a very large internal deposition of radioactivity when he was contaminated by an explosion of an ion-exchange column containing an acid solution and the plutonium by-product americium. Breitenstein headed the team that treated McCluskey.

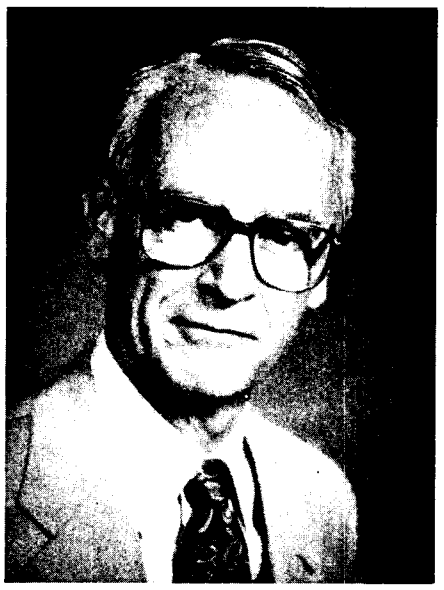
Though McCluskey never returned to work, he was able to live in retirement at home with his family, until his death in 1987. The case generated great media interest, and "changed my life," said Breitenstein. "Often, the public affairs aspects of the case overwhelmed the medical aspects."

At BNL, he plans to concentrate on occupational medicine and expects to continue "being proactive in preventive health, such as encouraging fitness, proper diet, stress reduction, stopping smoking — all the things that help people live better longer," he said. "I'm sure that Dr. Sbarra and the OMC have been very active in all these areas already, and I will certainly continue to expand these efforts."

Bryce Breitenstein first trained as a pharmacist, then went to medical school at the University of Oregon, where he earned his M.D. In 1964, he completed a residency in internal medicine at Los Angeles County Hospital, then practiced his specialty in Montana during the 1960's.

After receiving a fellowship in environmental health at the University of Washington, Breitenstein completed a preventive medicine residency in 1973, and joined HEHF in 1974.

Until last week, then, Breitenstein had always been a Westerner. However, for him to take up his new position in OMC, and for his wife Mikel Breitenstein to assume her new post as a computer scientist in the Management Informations Systems Division, the couple drove cross country, arriving on site almost two weeks ago. They have now taken up residence in the Danish House — the first people to ever live in the innovative experimental house built at BNL by the Danish government.



Bryce Breitenstein

Photos on this page by Roger Stoutenburgh.

WHO Is at BNL

To change national policy on any subject is a formidable task. When the subject deals with how far human health and safety should be considered in decisions involving technological risks, the task becomes even more challenging. Yet, this is a principal mission of the World Health Organization (WHO), and the work of WHO senior scientists such as Frank Go.

Go, who has over 24 years of experience in directing and advising on different WHO projects in places ranging from London to Kuala Lumpur, is concerned about the increasing danger of major health problems in developing nations where more and more pollution-intensive industries are being installed. In his present assignment, Go is helping develop WHO activities to promote national policy reforms so that human health considerations are taken into greater account in development planning.

Mission Introduced: Workshops

These concerns had previously been addressed at BNL. In fall 1985 and summer 1987, workshops were held on planning and developing activities in environmental risk assessment.

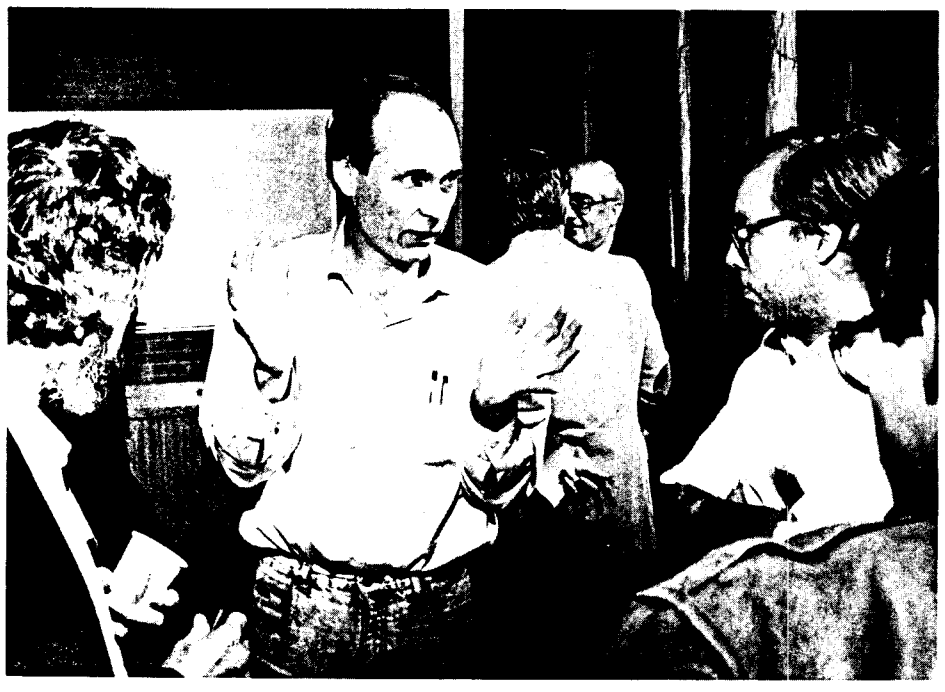
Leonard Hamilton, Head of the Biomedical and Environmental Assessment Division (BEAD) in BNL's Department of Applied Science, hosted and coordinated the workshops in his dual capacity as Director of the BNL WHO Collaborating Centre for the Assessment of Health and Environmental Effects of Energy Systems and WHO focal point on health and environmental effects of energy systems.

In addition to Hamilton and the risk assessment specialists in BEAD, attending the workshops were repre-

(Continued on page 2)

Leonard Hamilton (left), Department of Applied Science, and Frank Go of the World Health Organization discuss areas throughout the world where health risk-assessment studies may be initiated.

Testing the Axion Axiom



Among the 35 researchers at the Workshop on Cosmic Axions, held at Brookhaven on April 13-14, Michael Turner (center), of the University of Chicago and Fermi National Accelerator Laboratory, discusses the axion theory with (left) Bernard Sadoulet, University of California, Berkeley, and (right) David Seckel, University of Delaware, and Mark Bocko, University of Rochester.

Yet to be detected, the ghost-like particles called axions have been postulated as an extension of the standard model to explain CP conservation in strong interactions. Though weakly interacting, axions could conceivably make up most of the mass of universe and affect the evolution of stars. Lighter than the electron, axions are believed to have a mass ranging either from a thousandth to a millionth electron volt or from one to five electron volts.

Looking for axions in these mass ranges, a small, worldwide search for axions is ongoing and includes two experiments at BNL's Alternating Gradient Synchrotron: E805 is a Rochester/BNL/Fermilab collaboration that is the longest running and most advanced axion-detection experiment to date; and E840 is under construction involving the same collaborators, but it is designed to make axions rather than detect existing ones. In addition, one of the rare kaon decay experiments, E787, is sensitive to the presence of axions.

The Workshop drew most of those active in the field — researchers from the U.S., Japan, U.K., Western Europe and U.S.S.R. In addition to theory talks by Turner and others, progress on E805, and experiments at KEK in Japan, the Stanford Linear Accelerator Center and the University of Florida were discussed. Status reports on E840 and other experiments were also presented.

WHO Is at BNL (cont'd)

sentatives from the International Atomic Energy Agency, the United Nations Environment Programme, the United Nations Industrial Development Organization and WHO. As a result, WHO published *Emissions, Environmental Transport, and Dose-Response Models: Guidelines for Case Studies* in 1988. This will be a practical reference tool for personnel in the developing countries.

"Bringing about a change in perception and policy at the national level involves a great deal of promotional work and interaction between WHO and national agencies," explained Go.

Mission in Process

It also involves a great deal of data collection. "Most ill effects of industrial development can be prevented," said Go, "and prevention is more cost-effective than cure. But very few indigenous data exist to guide decision makers. So government policy has been invariably biased in favor of short-term industrial benefits at the expense of human health and longer term environmental considerations."

Go explained that once accurate information on the nature and potential scale of environmental health risks is available, decisionmakers will be able to see the need for action and the advantages of preventive measures.

He feels strongly, however, that the burden of data collection and analysis must be borne by local institutions. Thus, each country's planning authorities can establish priorities with their own data, and the information is credible. In the initial stages, WHO will help direct efforts to identify appropriate institutions, and, where necessary, provide assistance to develop these institutions' capacity to analyze results and provide reliable risk assessments.

Once information on risks is available, WHO will follow up by promoting institutional and policy approaches for guiding development planning. Subject to the availability of funds, studies will be initiated to test barriers to decision-making processes between sectors and to develop risk profiles for a range of countries.

"People tend to associate WHO and other international agencies with studies, but they are only a means to an end," concluded Go. "Our real work is to translate studies into live changes in national action that will promote human health and welfare."

— Liz Seubert

Art Bus to Brooklyn

A few tickets remain for the bus trip to Brooklyn Botanical Gardens and Art Museum on Saturday, April 29, at $15. Leave BNL 9 a.m., return 5 p.m. Contact Liz Seubert, Ext. 2346.

BWIS Speaker

Carmen Benkovitz, Department of Applied Science (DAS), will speak about "Some Results from Environmental Programs at BNL," at the next meeting of Brookhaven Women in Science (BWIS) on Tuesday, April 25, in Room A, Berkner Hall, at noon.

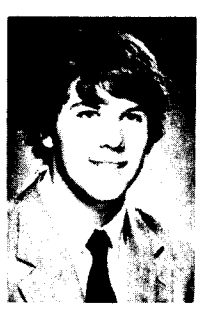
A member of DAS's Atmospheric Sciences Division since 1974, Benkovitz's principal interests have been in the areas of compilation and analysis of large environmental data sets, including emissions inventories, air quality and precipitation chemistry data. She holds an M.S. degree in chemical engineering from Columbia University and is currently a Ph.D. candidate in the Department of Applied Science of the Columbia Graduate School of Arts and Sciences.

Everyone is invited to attend this talk.

1989 AUI Scholarships Announced

Thirteen daughters and sons of BNL employees have been selected to receive 1989 AUI Trustee Scholarships. Each scholarship winner will receive $2,000 per year towards her or his college education, for up to four years of study.

The 13 were selected from 63 applicants by an independent committee appointed by the College Scholarship Service, Princeton, New Jersey, which adminsters the program for Associated Universities, Inc. (AUI).



Carl E. Anderson is the son of Carl W. Anderson, Biology Department. He lives in Stony Brook and attends Ward Melville High School. He has been accepted at Harvard University, where he plans to study geology, medieval history and Scandinavian literature.

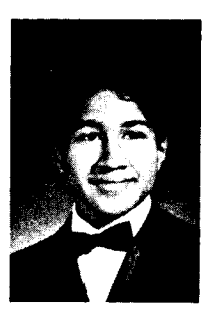
M.G. Bhat, the son of Mulki Bhat, Department of Nuclear Energy, will major in chemistry at Cornell, Johns Hopkins, Princeton or Yale University, or the University of Pennsylvania. He is a senior at Miller Place High School and resides in Miller Place.

Nora Castro is the daughter of Harriet Castro, Fiscal, and John Castro, Plant Engineering. To major in electrical engineering, she will attend Cooper Union. A student at Southold High School, she lives in Southold.

Juliana Chan, the daughter of Bing Chan, Department of Nuclear Energy, will study textile design at Cornell University. Living in Stony Brook, she is a senior at Ward Melville High School.

Sharon Laurie is the daughter of John Laurie, Photography & Graphic Arts Division. A resident of Miller Place, where she attends Miller Place High School, she plans to matriculate at either the University of Virginia or the State University of New York at Binghamton.

Peter McHugh Jr., the son of Peter McHugh, Management Information Systems Division, will major in mechanical engineering at Lehigh University. A senior at Shoreham-Wading River High School, he lives in Shoreham.



Pinaki Mukherji is the son of Swapna Mukherji, Plant Engineering Division, a resident of Dix Hills and a student at Half Hollow Hills East High School. He will enroll at the University of California, Berkeley, to pursue premed studies.

Joseph Muller, the son of Thomas Muller, Accelerator Development Department, lives in Manorville and attends Center Moriches High School. He will study engineering at Lehigh University, Pennsylvania State University, the State University of New York at Binghamton or the University of South Carolina.

Linda Wan-Lin Shiue is the daughter of Chyng-Yann Shiue, Chemistry Department, and Grace Shiue, Biology Department. Residing in Setauket, she is attends Ward Melville High School, and she plans to enter either Brown University or Stanford University, to major in anthropology and for premed studies.

Brian Diamond is the son of David Diamond, Department of Nuclear Energy, a resident of Port Jefferson and a senior at Earl L. Vandermullen High School. He was accepted at Cornell University, where he plans to major in biology.

Sarah Garber, the daughter of Meyer Garber, Department of Applied Science, will go to the University of California, Santa Cruz, to study liberal arts. A Bellport High School student, she resides in Bellport.

Christopher Slavinsky is the son of William Slavinsky, Plant Engineering, a resident of Selden and a student at the Stony Brook School. He will major in electrical engineering after matriculating at Lehigh University.

Glen Turf, the son of Larry Turf, Director's Office, will enroll at Colgate University to study foreign languages and international relations. Living in Hauppauge, he is a senior at Hauppauge High School.

English Courses Offered on Site

English as a Second Language classes are being offered on site on an ongoing basis. The free course is designed for adults who would like instruction in conversational English, as well as in reading and writing the language.

- **Beginner classes** have been scheduled as follows: Thursday, April 27; Thursday, May 4; Thursday, May 11; Wednesday, May 17; Tuesday, May 23; Tuesday, May 30; Tuesday, June 6; Tuesday, June 13; Tuesday, June 20; Tuesday, June 27.
- **Intermediate classes** are held on Mondays.

All classes are held in the Personnel Training Room, Bldg. 459, and begin at 7 p.m.

All are welcome; appointments are not necessary. For more information, call Pat Knisely, Ext. 7631.

Union Meetings

International Brotherhood Of Electrical Workers

Local 2230, IBEW, will hold its regular monthly meeting on Monday, April 24, at 6 p.m., in the Knights of Columbus Hall, Railroad Avenue, Patchogue. There will also be an afternoon meeting at 2 p.m. for shift workers in the Union office at 31 Oak Street, Patchogue. On the agenda will be regular business, committee reports and the president's report.

Oil, Chemical & Atomic Workers

The next meeting of the OCAW Union, Local 8-431, will be at 5:15 p.m., Tuesday, April 25, at Foresto's, on Route 25 in Calverton.

Equipment Demo

R.S. Crum and Company will present an overview of Swagelok and CAJON fittings, and NUPRO and WHITEY valves, in Berkner Hall, on both Tuesday, April 25, and Thursday, April 27, from 11 a.m. to 2 p.m.

Contest! Contest!

There was a fine poet named Lear
Whose limericks were without peer.
If you think you can write,
Poems like his, with a bite,
There's a contest awaiting you here!

In honor of the birthday of the great English limerick writer, Edward Lear, who was born in 1812, May 12 has been proclaimed Limerick Day. We're not sure just who made that proclamation, but it's a wonderful excuse for running the second Limerick Contest in the Bulletin's history (in 1983, the contest focused on Love Limericks for Valentine's Day).

To win the first prize of a five-balloon bouquet of your choice from the BERA Sales Office, you must write the best limerick having something to do with BNL and send it to the Brookhaven Bulletin, Bldg. 134, by Wednesday, May 3. Enter as many times as you wish, but remember — your poem must be in limerick form and have a BNL focus. The best of the bunch will be published in the Bulletin on Limerick Day, May 12.

Exhibit Next Week

April 24-28 is National Science and Technology Week — a fact that will prompt an exhibit in Berkner Hall highlighting the several student programs offered at BNL throughout the year. The exhibit, a joint effort of the Public Affairs Tour Program and the Office of Educational Programs, will be on display all next week.

On Artificial Intelligence

A meeting to discuss interest in artificial intelligence at BNL will be held in the C&CD Seminar Room, Bldg. 515, on Thursday, April 27, from 11 am. to noon.

All attendees will be asked to complete a form indicating their interest and experience. Completed forms will be organized in a booklet and sent to all participants to provide information exchange.

For more information, and if you are interested but cannot attend, contact Ralph Fullwood, Ext. 2180.

Local Users Group

The next meeting of the Upton Local Users Group will be held on Wednesday, April 26, at 10:30 a.m., in Room B, Berkner Hall. Presentations will be made on "Telecommunication at BNL" and "Network Servers for PC Communication."

Time will be available for questions after the presentations. All computer users are welcome to attend. For more information, call Zohreh Parsa, Ext. 4748.

Radio Club

The BNL Amateur Radio Club last met in 1985. To reestablish the Club, an organizational meeting is scheduled for Thursday, April 27, at noon, in Room D, Berkner Hall. Current plans are to build and operate a 450-MHz-band amateur repeater. Formerly active members and all other interested parties are urged to attend. For more information, contact Andy Feldman, Ext. 3264, or George Sintchak, Ext. 3061.

Nursery School

The Upton Nursery School is enrolling three-and four-year-old children for the 1989-90 school year. The cooperative preschool offers three-hour classes three days a week in the Recreation Building on site. The school is open to families of BNL employees and their relatives. For more information, call Karen Indusi, 473-6550.

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The Upton Nursery School has an open part-time teaching position, beginning September 1989. Send resume and references to P.O. Box 324, Upton, NY 11973. For more information, call Anneka Krienen, 744-2937, or Biays Bowerman, 281-2463.

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ANITA COHEN, Editor
MARSHA BELFORD, Assistant Editor
LIZ SEUBERT, Reporter

35 Brookhaven Ave., Upton, N.Y. 11973
(516)282-2345

Opportunity knocks on Professional Secretaries' Day, April 26, and throughout Professional Secretaries' Week, April 23-29: an opportunity to recognize all administrative office support personnel — receptionists, clerks, secretaries, administrative assistants, office managers and others who represent the many facets of the changing office professions.

Since its formation in 1982, the Upton Chapter of Professional Secretaries International has emphasized the evolving role of today's administrative office support personnel and highlighted an up-to-date image of this ever-changing profession. For more information about PSI, call Membership Chair Sharon Jones, Ext. 2493.

Camera Club

The Camera Club will hold its regular monthly meeting on Thursday, April 27, at 5:30 p.m., in Berkner Hall. Topics to be discussed include the schedule of events, and the pros and cons of different camera formats. Members and nonmembers are encouraged to attend and participate.

Bowling

White League

Pete Stelmaschuk had a 235, Ed Sperry IV 232/222/203/657 scratch, Ken Riker 201, Sharon Smith 187, Karen Jacobs 181.

Purple League

Ben Belligan had a 213, Ed Beadle 213, Bob Schuman 209, Frank Dusek 205, Marsha Kipperman 196/190, Cheryl Miezianka 187.

Red/Green League

J. Muller had a 238, T. Holmquist 225, H. Marshall 224, C. Bohnenblusch 223, R. Mulderig 215, S. Dimaiuta 211, A. Pinelli 203.

Volleyball

Standings — Week of April 10

League I	League II
Playoff Finals	**1st Round of Playoffs**
Upfagrabs defeated Dinkers, 3-0	Set Ups versus Fossils, 2-0
	Krush defeated Slammers, 2-1
	Ziegfield Vollies defeated Nuts & Bolts, 2-0
League III	**Open League**
Playoff Finals	**Playoff Finals**
High Volley'em defeated MISfits, 3-1	Phoenix defeated Dig Your Lips, 3-1

Microcomputer Club

Al Wallner, Safety & Environmental Protection Division, will discuss CD-ROMs — powerful optical storage devices that allow access to large data bases on conventional PC, XT, AT and PS2 computers — in a lecture sponsored by the BNL Microcomputer Club on Thursday, April 27, at noon, in the main conference room of Bldg. 475. Wallner will cover the different aspects of optical storage and, as an example of how such a system can be used, he will demonstrate how BNL employees can get chemical information quickly.

All those interested are invited to attend and welcome to bring lunch. For more information, call Frank Salzano, Ext. 4458.

Basketball

Playoffs — Second Round

First Game

Knicks	74	Light Source	56
W. Cummings	15	M. Fulkerson	17
L. Walcott	14	P. Doll	13
F. Thompson	10	P. Ratzke	11
G. Thompson	10	T. Garrison	7
T. Mendez	9	K. D'Amico	4
M. Lawrence	8	I. Garcia	3
T. McGill	4	R. Church	1
B. Turner	4		

Three-point shots: Fulkerson, Garcia, Garrison, Mendez, Walcott (4)

Second Game

Celtics	65	Penetrators	57
C. Edwards	18	R. Tatum	17
J. Gaeta	14	R. Tonkyn	14
D. Hoggard	14	R. Domenech	11
M. Colon	11	R. Garappolo	9
P. Browne	6	T. Abbott	4
M. White	2	C. Jones	2

Three-point shots: Domenech (3), Gaeta (2), Garappolo (2)

Archery Club

The BERA Archery Club will hold a meeting on Wednesday, April 26, at 5:15 p.m., in the Recreation Building.

New bylaws will be distributed and important matters discussed. All club members are asked to attend, and anyone interested in joining is welcome.

Walkers Needed

On Sunday, April 30, a BNL team wearing BNL/AUI T-shirts will participate in WalkAmerica, the annual national walkathon held in more than 1,000 local communities to raise money for the March of Dimes. Each walker helps the cause by signing up sponsors who pledge a certain amount for each kilometer completed or who make flat donations.

To earn money for the March of Dimes and a T-shirt from BERA, pick up a registration form and route information sheet at the BERA Sales Office in Berkner Hall, any weekday, 9 a.m. to 2 p.m.

Cooking Exchange

"Appetizers and Desserts" will be on the menu for the next meeting of the International Cooking Exchange, on Wednesday, April 26, at 12:30 p.m., in the Recreation Building

All BERA members and their families are invited to Cooking Exchange meetings. A fee of $2 is charged to pay for the ingredients, and everyone may sample the dishes prepared. New members — and your favorite recipes — are welcome. Babysitting is provided at 50¢ per child.

Golf Tournament

The Brookhaven Golf Association (BGA) will sponsor a golf tournament at Bethpage State Park on Thursday, June 8. To participate in the tournament, greens fees of $14 must be submitted to the BGA no later than May 5. Only those who prepay will be able to play in the tournament.

Tee-off for this tournament will start at 11 a.m., and tee-off times can be reserved beginning May 22.

Make your check payable to the BERA Golf Association, and send it to Bob Mills, Bldg. 901A by May 5. For more information, call Joe Carbonaro, Ext. 5139.

Cafeteria Menu

Week of April 24

Monday, April 24		
Soup: Cream of turkey	(cup)	.75
	(bowl)	.95
Angel-hair spaghetti w/meatballs & garlic bread		3.10
Beef & cheese burrito on rice		2.95
Lite-line: Salad plate		2.25
Hot deli: Philadelphia cheese steak		2.85
Tuesday, April 25		
Soup: Matzoh ball	(cup)	.75
	(bowl)	.95
Chicken à l'orange w/pot. or veg.		3.10
Pot roast w/pot. or veg.		3.10
Lite-line: Skinless chicken w/veg.		3.10
Hot deli: Hot corned beef		2.85
Wednesday, April 26 — Secretaries' Day		
Soup: Spring vegetable	(cup)	.75
	(bowl)	.95
Roast beef w/brown gravy & pot. or veg.		3.10
Virginia ham w/pineapple & pot. or veg.		3.10
Lite-line: Tortilla basket stuffed w/lettuce, tomatoes, cucumbers and your choice of egg, tuna or chicken salad		2.50
Hot deli: Veal Parmesan hero		2.85
Thursday, April 27		
Soup: Seafood bisque	(cup)	.75
	(bowl)	.95
Chicken pot pie w/puff pastry		3.10
Beef macaroni & cheese		3.10
Lite-line: Ham & cheese quiche w/fruit		2.95
Hot deli: BBQ ham		2.85
Friday, April 28		
Soup: Beef barley	(cup)	.75
	(bowl)	.95
One-half Cornish hen w/stuffing & veg.		4.65
Lite-line: Broiled whitefish w/pot. or veg.		3.10
Hot deli: Hot ham & cheese croissant		2.85

Arrivals & Departures

Arrivals

Enrique V. Barrera ..... DAS
Byrce D. Breitenstein ..... Occ. Med.
Mikel P. Breitenstein ..... MIS
Thomas A. Daniels ..... Reactor
Samuel John Gatley ..... Chemistry
Steven T. Mulhall ..... Accel. Dev.
George O.K. Stenby, III ..... AGS
Richard H. Stoner, Jr. ..... NSLS

Departures

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

Kim M. Mohanty ..... Physics
Samuel Sadinsky ..... AGS

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.

4026. PREVENTIVE MAINTENANCE COORDINATOR - Requires extensive knowledge of preventive maintenance. Will be responsible for the administration and coordination of the Plant Engineering preventive maintenance program for real property. Will direct and coordinate plant equipment inventory, collect data and analyze services, develop specifications and protocols, distribute work orders to shops, and monitor compliance to preventive maintenance protocols. Familiarity with personal computer operations is highly desirable. Plant Engineering Division.

4027. SECRETARIAL/ADMINISTRATIVE POSITION - Requires AAS in secretarial science or equivalent and extensive knowledge of Laboratory policies and procedures. Must have excellent secretarial, communication and demonstrated interpersonal skills. Word processing experience essential. Familiarity with IPAP/J-CARS data entry as well as MIS inquiry systems and IBM PC experience helpful. Will coordinate and perform diverse administrative and secretarial duties for Administrative Division Head. Accelerator Development Department.

Motor Vehicles & Supplies

79 FORD LTD II - 302, a/t, am/fm stereo cass., body and interior excel., no rust, high mileage, $500. Dan, 698-7322 days or Ext. 4987 eves.

79 MERCURY CAPRI - 4-cyl., 4-spd., black, am/fm cass., no rust, very clean, runs well, $650. Clif, 472-2193.

79 PONTIAC WAGON - good cond., new exhaust, tires, battery, many options, $1,400. Al, Ext. 5033.

79 CHEVY LUV MOTOR HOME - sleeps five, 12V, 110, gas, fully self-contained, 4-spd., 4-cyl., clean, asking $6,000. Paul, 273-6796.

78 CHEVY Z28 - 350, a/t, has leak, asking, $1,100. Dick, Ext. 3457 or 589-9103.

78 DATSUN 280Z 2+2 - parting out, new air-flow box, good tires. Ext. 2345 or 929-3910.

77 CAMARO - 305 cu.in., V-8, a/c, am/fm cass., radial tires and snows, $1,500. Victor, Ext. 2395.

76 OLDS - runs, good for parts, $100. Dawson, Ext. 2468.

76 SUZUKI - 250cc twin eng., runs well, $200. Ext. 7699 or 821-1435.

76 DATSUN B210 - good station car or for parts. Dave, 929-4522.

75 VW CAMPER - sleeps 6, 20 mpg, 15k mi. on new eng., needs 3rd owner. Dan, Ext. 7518.

75 BMW R-90/6 MOTORCYCLE - 900cc, very good cond., $1,800. Roger, Ext. 7518 or 878-8847.

75 OLDS CUSTOM CRUISER WAGON - runs well, 455 cu. in., V-8, $200. 744-0903 or Ext. 7708.

73 JEEP - mail truck, 2wd, 6-cyl., a/t, left-handed drive, runs well, $250. 744-4386.

73 CHEVY VAN - 6-cyl., runs well, needs body work, make offer. Fred Kuehl, Ext. 7947 or 588-2268.

71 MAVERICK CLASSIC - good tires, body good shape, needs battery, runs, $125 as is. 924-8558 after 5 p.m.

70 COX TENT TRAILER - sleeps 6, sink, ice box, portable stove, heater, porta-potti, new canvas, tires, excel. cond., $700. Ext. 2309 or 473-9180.

69 HONDA MOTORCYCLE - 90cc, 3,400 miles, garaged last 5 years, $150 incl. helmet. Mike, Ext. 2052.

67 YAMAHA MOTORCYCLE - 180cc, new battery, oil injection, $150. Dan, 698-7322 days or Ext. 4987 eves.

YAMAHA DIRTBIKE - 360cc; Indian 80cc dirtbike, two minibike frames/parts, all need work, $200 takes all or part out. Clif, 472-2193.

60 WILLYS PANEL DELIVERY - independent suspension, rack and pinion, disc brakes, small block Chevy, many extra parts, $4,300. Dan, Ext. 2075.

TIRES - 2 Goodyear Eagles, VR60P255, 60VR16 for Corvette, Thunderbird, Cougar, new, list $325, best offer. Ray, Ext. 3536 or 289-7615.

STARCRAFT CAMPER - 11½' slide-on, self-cont., refrig., freezer, stove, oven, shower, heat, h/c water, $1,850. Ext. 4100 or 929-5872 after 6 p.m.

FORD FACTORY CAP - asking $400. 474-5715.

CASSETTE CAR RECEIVER - JVC, new, in box, 2 or 4 speaker hook-up, clock, etc., $150. Ext. 3082.

REESE HITCH - single lever, equalizer, $50. Ext. 4846 or 363-6940 after 5 p.m.

TIRES - Firestone Supreme, 235R75x15, extra-load, blackwall, $25. Ext. 2799.

TRAILER HITCH - from a 1965 Ford Mustang, $15. Tony, Ext. 4035.

HITCH - Reese Class III trailer hitch w/universal receiver, asking $200. 281-6617 after 5 p.m.

TIRES - Firestone 721, S/B radials, two, 205x75x15, w/w, good cond., $15 ea. Harry, Ext. 4504.

STANDARD TRANSMISSION - 4-spd., posi-traction rear. 924-0960 after 5 p.m.

Boats & Marine Supplies

31' CORVETTE CLASSIC - keel/CB, sloop, fully equipped, excel. cond., $18,000. Ext. 2053 or 363-2796.

28' MORGAN - keel/centerboard sloop, excel. cond., extensive equip. list, $16,500/offers. 286-3675.

25' GRAN BATEAU CRUISER - 1978, 255 Volvo, loaded, lots of extras. 366-0021.

25' LANCER SLOOP - 1977, shoal keel, new Genoa, new Evinrude, 9.9 ES, $4,900. 289-8693.

22' US YACHT - 1983, excel. cond., w/steel cradle, many extras, $10,000. Bernie, 331-2298.

21½' BAYLINER, 1985, cuddy cabin, 130 h.p. OMC, low hours, depth gauge, ship-to-shore, $7,500. 654-0670 days.

21' V-BOTTOM BOAT - 1980 w/1986 110 h.p. Johnson, excel. for clamming, fishing, or pleasure, w/wo cabin, asking, $3,600. 589-3072.

19' BOWRIDER CRUISER - 1972, camper, w/1976 115 h.p. Johnson, Coast Guard pkg. w/trailer, $3,500. Frank, 567-5131.

18' FIBERGLASS SLOOP - 4 sails, sail cover, knotmeter, depth sounder, new battery, galvanized trailer. Bergoffen, Ext. 7898.

17' LYMAN RUNABOUT - 1960, orig. 1959 Evinrude 50 h.p., very good cond., $2,000. Roger, Ext. 7518. 878-8847.

17' ARISTOCRAFT - 1965, fiberglass, rebuilt 60 h.p. Merc I/O, very economical, excel. cond., w/trailer, ready to go, $1,700. Mark, Ext. 2599.

17' COBIA - 60 h.p. Johnson, electric start, outboard, Cox trailer, $1,650. 399-3712.

16' BAYLINER - 1986, excel. cond. in/out, 85 h.p., w/trailer, 20 hours, many extras, $5,700. Ext. 4024.

14' ALUMINUM BOAT - 1967, 18 h.p. Evinrude, 1984 boat trailer, all in good cond., $525. Ext. 4629 or 929-4258 after 5 p.m.

14' ALUMINUM BOAT - 7½ h.p. Merc. motor and trailer, fully equipped, like new, $1,800. 289-5134 eves.

13½' BOAT - inflatable, Metzeler steering, 30 h.p., Tohatsu motor, windshield, bench seats, Highlander trailer, asking $3,500. 281-6617 after 5 p.m.

12' MFG - aluminum w/6 h.p. Evinrude, fine cond., $580 or best offer. John, 821-3739 after 6 p.m.

12' ROWBOAT - Sears, new fiberglass, $350. 929-5911.

12' CANOE - Old Town Pack, 400 lb. capacity, $200. Bob, Ext. 4044.

8' INFLATABLE RUBBER BOAT - w/aluminum oars, foot pump & carrying case, excel. cond., $450 firm. 821-2395. Bruce. Ext. 4555.

7' ELI DINGHY - w/oars, excel. cond., $250. Ext. 2610 or 924-5272.

1976 EVINRUDE - outboard, 25 h.p., long shaft, manual start, recent overhaul, $275. Brian, Ext. 2799 or 757-1581.

JOHNSON MOTOR - electric start, 40 h.p., outboard, $325. 399-3712.

MOTOR - Electric, Minnkota Weedless, Model 65, 25 lb. thrust, 5-spd., battery and battery box, asking, $185. 281-6617 after 5 p.m.

Furnishings & Appliances

DINETTE TABLE — 4 chairs, $50; hand-crafted, wooden, room divider, 6'x8', 751-4539.

SECTIONAL SOFA SET - 6-piece, 2 years old, very good cond., $150. Ext. 2679 or 472-6922.

DRAPES - insulated-type, tan, approx. 30', $50; couch, chair, ottoman w/cushions, $400. Ext. 2543.

SECRETARY - w/chair, solid mahogany, circa 1920, $139. Jack, Ext. 4447 or 744-3919 eves.

SOFA & LOVESEAT - purchased 1985, white, contemporary, Scotch-guarded, very good cond., asking $300. 589-3072.

LOVE SEAT - two chairs, Eastlake Victorian, orig. upholstery, good cond., $350. 929-8725.

COUCH & LOVESEAT - $35. 399-3712.

OVAL KITCHEN TABLE - white formica w/leaf, $30; new, leather pocketbooks, $18; walnut storage hamper, $20. Kathy, 744-2203.

DRESSER W/MIRROR - hardwood, very good condition, $100. 689-7326.

SOFA & LOVESEAT - early American, good cond., $125. Vita, 277-0464 or Frank, Ext. 7519.

DRESSER W/MIRROR - hardwood, pecan finish, good cond., $90. Scott, Ext. 3369 or 758-7114.

BEDROOM FURNITURE - canopy bed, dresser w/mirror, desk w/chair, white, $150, neg. Gina, 286-3847.

SOFA & LOVESEAT - full size, soil-free material, earth tones, Drexel-Heritage, modern-Oriental never used, $800 for both. Ext. 3082 or 758-3204.

DRYER - Whirlpool portable, electric, best offer. Tom, Ext. 4819.

DISHWASHER - Hotpoint, $100. 282-3065 or 473-1157 after 6 p.m.

CLOTHES WASHER - G.E., portable, good cond. 924-8558 after 5 p.m.

STOVE - Hardwick gas stove, white, like new, 360-3803 after 6 p.m.

REFRIGERATOR - Excellence, white, 32"Hx 20"Wx21"D, like new, freezer section, $100. Keith, 479-3863.

VERTICAL BLINDS - for 6' sliding glass door, beige & ivory, like new, $75. 473-8292 or 928-0297 eves.

MEDICINE CABINETS - 2 available, wall opening 14"x18"x3½", glass doors, almost new, excel. cond. $15 ea. Don, Ext. 2981.

Tools, House & Garden

PROPANE TANK - LP-20, for gas grill, new, never used, $20. Haim, Ext. 3293.

JET WATER PUMP - multistage, set w/new motor, includes pressure tank, used three years, very good cond. 821-3925.

TOPSOIL - $19 per yard delivered, also sand and gravel delivered. 924-9427.

POWER RAKE - all new tines, excel. cond., $190. 281-8274 or Ext. 3953.

FLOWERS - $9.50/flat; vegetables, $.90/pk., large selection hanging baskets, $9; azaleas, $7.50. Ray, 727-6818 after 3:30 p.m.

YEWS - arborvitaes, white pine, holly, $4 per foot, up to 4 ft. John, Ext. 4491 or 744-5867 after 5 p.m.

LAWNMOWERS - two Sears Craftsman: 22" cut w/bag, self-dr., $85; 20" cut, 3 h.p. w/bag, $60; many more. Dan, 698-7322 days or Ext. 4987 eves.

PYRAMIDAL YEWS - *taxus cuspidata capitata*, 2-4 ft., $5/ft., U-dig. 589-4363 after 6 p.m.

PARAGON KILN - Model A88B w/collar & kiln sitter, includes all furniture stilting cones & extra coils, $300. Ext. 3084.

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

LAWNMOWER - Craftsman II, 3.5 h.p., 20" cut, cast-iron cylinder liner, 2 yrs. old. Wick, 758-6773 eves.

RADIAL ARM SAW - Sears 10", great shape, $300. Ext. 4597 or 878-1255.

CIRCULAR SAW - Black & Decker, 1 h.p., all metal body, 7½", $20; deep well jet pump, 1½ h.p., new motor, $25. Dan, Ext. 7518.

Sports, Hobbies & Pets

PIANO - Lester Betsy Ross spinet, light wood, w/bench, good cond., $700. Tony, Ext. 3658/3637 or 929-4903.

PIANO - Hardman console w/bench, medium wood, asking $900. Ext. 3872.

CAMPING EQUIPMENT - backpack, external frame, large, $25; 2 sleeping pads, foam, w/ground covers, $12 ea. Jack, Ext. 4447 or 744-3919 eves.

SEWING MACHINE - Singer, portable, Model 503A w/access., buttonhole maker, extra bobbins, $50. 727-3830.

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

GUITAR - Ovation "Viper" electric (collector's model) w/case & practice amp, excel cond. $400. Pat or Kevin, Ext. 2880 or 388-1679.

BICYCLES - man's 10-spd., needs work, $10; child's 20" w/training wheels, $15. Rich, Ext. 2965.

HEAVY BAG - Everlast, like new, $50. Tom, Ext. 4819.

BASS GUITAR - Hondo, used once, in original box, $70. Mark, Ext. 2599.

BICYCLE - girl's 24" Ross, 3-spd., excel. cond., new $125, asking $60. Ext. 4449 or 751-8403 after 6 p.m.

POOL TABLE - Brunswick, Bristol, 3-piece slate w/Belgian balls, $600. 369-5781 after 4:30 p.m.

Audio, Video & Computers

VCR - G.E., VG7720, 155 ch., 4-head, full remote, on-screen programming, auto features, compact, new, full warranty, $270. Hans, 4584.

TURNTABLE - Technics, SL270U, brand-new in box, $50, neg. Walter, Ext. 4100 or 369-4238.

STEREO RECEIVER — Pioneer SX828, 80 watts per channel w/documentation & orig. box, $100 or make offer. Ext. 3264.

STEREO - Sony, am/fm, recorder, $50. Wendy, Ext. 3206.

TURNTABLE - Gerard, very good cond., needs amplifier, $75. 924-8558.

BETAMAX - Sears, w/tapes, very good cond. 924-8558 after 5 p.m.

Miscellaneous

BEEF - all natural Black Angus beef, no drugs or hormones, buy ¼, ½ or the whole steer. Ext. 3928.

ICE CREAM PARLOR BOOTH - from the fifties, excel. cond., $150. Ext. 3953 or 281-8274.

FRANCS - French, left over from trip, Ext. 4192.

CAST-IRON SHOE REPAIR - old, 8 pieces, $20; crib, Child-Craft (heavy), $20; powered hack-saw, floor model, $50. 878-6637.

FAN - floor stand, $20. Ext. 2543.

Car Pools

ELWOOD/E. NORTHPORT/COMMACK - driver needed for on-time car pool. 8:30-5:00. Paul, Ext. 4156.

CARPOOL - North Fork carpool looking for riders or combine w/another. Ed, Ext. 3293.

BOHEMIA/OAKDALE AREA - needs 2 more drivers for car pool. Frank, Ext. 2314.

Lost & Found

LOST - keys, key ring lost 3/31 around Bldg. 725. John, Ext. 3988.

Free

DOG - shepherd mix, affectionate, 2-yr.-old female, very good disposition, needs a loving home. Karen, Ext. 3305.

CAT - Maine coon, altered male, beautiful, very affectionate and playful, indoors or out. Janet, Ext. 4049 or 744-8087.

FURNITURE - early attic, living room, you pick up. Ext. 4697 or 744-9423 after 6 p.m.

Yard & Garage Sales

SMITHTOWN - three families, furniture, exercise equipment, books, much more, April 22-23, 3 Steven Place. 360-3803.

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

BROOKHAVEN - furn. 3-bdrm. house, eik, l/r, d/r, den, 2½ baths, screened porch, one-acre lot, avail. mid-Aug. for 1 year, $1,000/mo. + 1 mo. sec., refs. 286-0263 eves.

BROOKHAVEN HAMLET — rent a room, share a house w/two other professionals, spacious 4 bdrm. house on wooded lot, convenient to lab, $350/mo. all inclusive. Randy, Ext. 3835.

MEDFORD - 3-bdrm. condo, 1½ baths, w/w, all appliances, ca/c, pool, tennis, golf, $975/mo., sec. Ext. 3921 or 689-6117.

NORTH SHIRLEY — 2-rm. apt., furn. eik, w/w, bdrm. w/skylight, 5 min. to Lab, 1 person only, non-smoker, no pets, sec., $475/mo. incl. util. 281-8044.

PORT JEFFERSON STATION - 3-bdrm. ranch, eik, l/r, d/r, den, 2 baths, 2-car garage, 3-V school district, short-term rental, 1 mo. sec. Ext. 4368 or 928-3371.

SMITHTOWN/COMMACK - lovely private studio, large kitchen, full bath, a/c, cable, 1 person, near highways, $525 incl. all. 543-0487 eves.

S. JAMESPORT - 3 bdrm., l/r, d/r, kit., utility rm., porch, walk to beach, 25 min. from Lab., (no pets) $550/mo. + util. Walt, Ext. 2241, 698-0576 or 722-4636.

STONY BROOK - share house, $339/mo. + util. For appointment call Jim, Ext. 2183.

For Sale

BELLPORT - 3-bdrm. ranch, l/r, d/r, eik, den w/fp, 2 baths, garage, full bsmt., excel. neighborhood, asking $187,000 neg. Fred, Ext. 3155 or 286-3446.

CENTRAL ISLIP NORTH — 4-bdrm. Cape Cod, l/r, d/r, finished bsmt, new kit. and appliances, new bathroom, alum. siding, new windows, walk to RR, shopping, taxes $2,400, $129,990. Ext. 4527.

CORAM - 9-rm. Colonial, 4 bdrms., 2½ baths, family rm., f/p, eik, d/r, l/r, cul-de-sac, in-ground pool, sprinklers, 2-car garage, mud room, $195,000. Ext. 2303 or 732-3902 after 5 p.m.

EAST SETAUKET - 4-bdrm. Colonial, l/r, d/r, family room, w/fp, eik, 1½ baths, full bsmt., 2-car garage, a/g pool, 0.42 acre, 3-V school district, $192,000. Cheng, Ext. 2958 or 473-6429.

EAST SETAUKET - 4-bdrm. Colonial, 2½ baths, eik, l/r, d/r, family rm., f/p, wood floors, screened porch, 2-car gar., 0.52 acre, new vinyl siding, gazebo. Shiue, Ext. 4395/3372 or 751-8224.

EAST SETAUKET - 4-bdrm. ranch, 2-bath, eik, l/r, d/r, fin. bsmt. on fenced ⅓ acre, 3-V schools, $134,900. 473-4338 eves.

MATTITUCK - wooded lot, Dutch Colonial, ½ acre, 4 bdrm., 2 baths, full d/r, l/r w/fp, den, oak floors, full bsmt, encl. breezeway, 2-car gar., cul-de-sac, private creek, low taxes, $252,000. 298-5383.

MIDDLE ISLAND - Artist Lake condo, upper unit, w/w carpet, 5 appliances, low maintenance, 5 min. from Lab., low 80's. 345-5079.

NORTH SHIRLEY - ½-acre lot, 75'x265', Manorville school and fire district, 5 min. from Lab., nice area, $50,000. Jim, Ext. 2305.

ROCKY POINT - 3-bdrm. ranch, 100'x100' lot, eik w/skylight, Andersen windows, half bsmt, large fenced yard, SCWA water, under five yrs. old, mint cond., beach rights. 821-3925.

ROCKY POINT - Cape, ¼-acre, 4 bdrm., eik, full d/r, French doors, 14'x22' l/r, Andersen windows, carpeted, bsmt., patio, city water, all appl., more, low taxes, 6 mi. to Lab., $140,900. 744-3792.

ROCKY POINT - 2-story, alum. siding, ¼-acre, 2/3 bdrm., eik, 12'x18' l/r, 1½ baths, new kit. cabinets, carpeted, drapes, curtains, w/d, cable, city water, low taxes, walk to all, $120,900. 744-3792.

SETAUKET — N. of 25A, 4-bdrm. contemporary Cape, skylights in kitchen, f/p, many custom extras, lovely country setting, ⅓ acre, mint cond. P.J. Vincent, 689-8675.

Wanted

HOUSE/APARTMENT - to share/sit, May-Sept., responsible, neat, non-smoker, female. Ext. 4470 or 728-8771.

LAWNMOWERS - old, complete. Dan, 698-7322 or Ext. 4987 eves.

RIDE - from "S" section in Stony Brook, 5 days, time flexible, back & forth, willing to pay. Ext. 2683.

PARTNER - for 30' sailboat, Peconic Bay. Ext. 7699 or 821-1435.

DRIVER - to drive for florist, flexible hours. Tony, 878-0216.

HOUSE TO RENT - quiet, non-smoking couple w/6-yr.-old daughter wants small house near Lab, preferably in Yaphank area. Sharon, Ext. 3032.

PHYSICS TODAY - February 1989 issue. Peter, Ext. 4272.

APARTMENT - about May 1st for new post-doctoral fellow, Dr. Yuh-Ru Chen. Contact Dr. Carl Anderson, Biology, Ext. 3375 or Ext. 3389.

ROCK-CLIMBING PARTNER - 5.8-5.9 level, for 2-3 trips per year to gunks, etc. Ext. 7775.

HOUSE TO RENT - 3-bdrm. house w/in Shoreham, Miller Place or Rocky Point SD, must have oil baseboard heating system. Ext. 2256 or 924-7383.

OUTBOARD MOTOR - 15 h.p., Evinrude or Johnson, short shaft. Joe, beeper 925 or 728-1859 eves.

LAWNMOWER — push-type for small area, also VCR, any model. Paul, Ext. 7697 or 689-2829.

OUTBOARD MOTOR - 15-25 h.p., long shaft, working condition. Marty, Ext. 3749.

TI99A COMPUTER - software cartridges and cassette drive. Richie, Ext. 2175.

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