BROOKHAVEN BULLETIN
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BROOKHAVEN NATIONAL LABORATORY

Betsy Sutherland Wins Lawrence Award

Biochemist Betsy M. Sutherland of the Biology Department is one of six scientists across the nation who have won a 1985 Ernest Orlando Lawrence Memorial Award for outstanding contributions in the field of atomic energy. Sutherland is the first woman to receive the prestigious Lawrence Award from the U.S. Department of Energy. She, along with the other awardees, will receive a citation, a medal and a $10,000 prize.

Sutherland was cited for her analyses of the consequences of damage repair in bacteria and human cells exposed to ultraviolet light.

The announcement of the awards was made by Secretary of Energy John S. Herrington on October 9, in Washington, D.C. In addition to Sutherland, other recipients are: Anthony P. Malinauskas, Oak Ridge National Laboratory, Oak Ridge, TN; William H. Miller, University of California, Berkeley, CA; David R. Nygren, Lawrence Berkeley Laboratory, Berkley, CA; Gordon C. Osbourn, Sandia National Laboratory, Albuquerque, NM; and Thomas A. Weaver, Lawrence Livermore National Laboratory Livermore, CA.

Mort Rosen
Betsy Sutherland

The Lawrence Awards are given to U.S. citizens who are relatively early in their careers and have made recent meritorious contributions to the development, use or control of atomic energy. The work may be in any area of science related to atomic energy, including medicine and engineering. The award was established in 1959 to honor the memory of Dr. Ernest Orlando Lawrence, who invented the cyclotron, a circular atom smasher. He also founded two major laboratories at Berkeley and Livermore, California, that now bear his name.

Sutherland has achieved international distinction in areas of great interest to health and environmental research, through her studies of how ultraviolet radiation produces genetic damage in human cells and how human cells limit the biological consequences of such damage. In particular, she has pioneered a strategy now widely applied in the study of DNA repair function with DNA or cells containing damaged DNA. Her research provides an example to those who seek to extend studies begun in bacteria and their viruses to studies of human cellular response to chemical and physical insults.

Betsy Sutherland holds a B.S. in biology and an M.S. in cytochemistry, both from Emory University, and a Ph.D. in molecular biophysics from the University of Tennessee. Prior to coming to Brookhaven, she was an associate professor in the Department of Molecular Biology and Biochemistry at the University of California. She joined the staff of the Biology Department at Brookhaven Lab in 1977 and received tenure in 1980.

Sutherland will go to Washington on November 25 to receive her award from Secretary Herrington, in a special ceremony at the Department of Energy's Forrestal Building.

Past BNL Winners

John J. Dunn (1984)
For fundamental contributions of great potential importance in determining modes of radiation damage, and to the understanding of the mechanisms by which DNA is transcribed and processed into functional messenger RNA.

Martin Blume (1981)
For definitive contributions to the theoretical analysis of magnetic phenomena in neutron scattering; for work on relaxation and critical phenomena; and for scientific leadership in solid state physics especially for the emerging program based on the National Synchrotron Light Source.

Nicholas P. Samios (1980)
For his leadership in the study of elementary particles, in particular for the discovery of the Omega-minus particle and the first charmed baryon.

Benno Schoenborn (1980)
For his innovative development and creative application of neutron scattering and diffraction techniques to the analysis of macromolecular structure and biological organization and function.

F. William Studier (1977)
For fundamental contributions to DNA and gene structure and function essential to understanding radiation and chemical induced genetic damage and repair.

Joseph M. Hendrie (1970)
For outstanding contributions to the physics and engineering of versatile research reactors and for important contributions and recognized leadership in promoting the safety of large power reactors.

Jacob Bigeleisen (1964)
For outstanding theoretical contributions and experimental advances in the separation of isotopes.

Herbert J.C. Kouts (1963)
For the development of new experimental techniques in reactor physics and their application to a better understanding of theoretical models of chain-reacting systems.

In addition, two former BNL employees won awards for work done in part at the Laboratory:

Henry O. Honeck (1974)
For his diverse and widely used contributions to reactor physics.

Robert L. Hellens (1971)
For numerous pioneering contributions to the field of light water reactor physics.

Tracer Technology Center Under Russell Dietz

Peter Horton
Russell Dietz

A new Tracer Technology Center within the Department of Applied Science was established at BNL last month, under the direction of Russell Dietz. The new Center gives independent identity to the tracer research and development work that Dietz has been doing for a number of years. Tracers, in this case, are gases used to track the course of various substances.

Dietz is well-known for his longstanding work on tracers. In more recent years, he pioneered the development and practical application of perfluorocarbon compounds as tracers. These have been used to track atmospheric dispersion to distances up to 1,000 kilometers, to measure air ventilation rates in homes and commercial buildings, and to detect secreted explosives.

According to Dietz, the perfluorocarbon tracer system has proven to be so versatile that other applications in a number of areas are being explored. These include the detection of oil leaks in underground high voltage electrical cables; intrusion detection in nuclear safeguarding; transport and dispersion of substances in the ocean; leak detection in commercial process plants; and geophysical explorations, such as mapping underground flows of oil, gas or water.

In the planning stage now is a project to test the feasibility of detecting oil leaks in underground high voltage cables. (Oil is circulated around the cables as an insulator and a coolant.) The project will be funded by the Empire State Electric Energy Research Corporation and the Electric Power Research Institute, with the cooperation of Con Ed.

Explains Dietz, the current method of leak detection is mostly by trial and error, requiring numerous cable excavations to pinpoint leaks. Use of a perfluorocarbon compound would involve mixing it into the oil. Then when a leak developed, the perfluorocarbon would be detected easily above ground, greatly reducing excavation work.

The cable project is an example of how specific problems can be addressed by the new Center. As Dietz says, it's a place where individual researchers, government agencies and private industries can come to seek advice and to support research into new applied areas. Collaborative studies can be done, as well as proprietary work by industry.

bnl Lecture
A Romp Through Memory Lane

Mort Rosen
Robert Palmer

Sometimes, time spent in experimentation results in a new truth or a discovery, which quickly becomes part of the world's knowledge of the physical universe. But what of the months and years, the accumulated events that led to the fortuitous finding? Though they may be revealing, amusing or astounding, they are often obscured by the results themselves unless someone who was involved speaks up.

In the 217th Brookhaven Lecture, Robert Palmer will speak up about the physics he has been involved with for 25 years. On Wednesday, October 23, at 4:30 p.m., BNL's Associate Director for High Energy Physics Research will talk about "Bubbles and Bosons — A Romp Through Memory Lane." These quotes from Palmer offer a lecture preview:

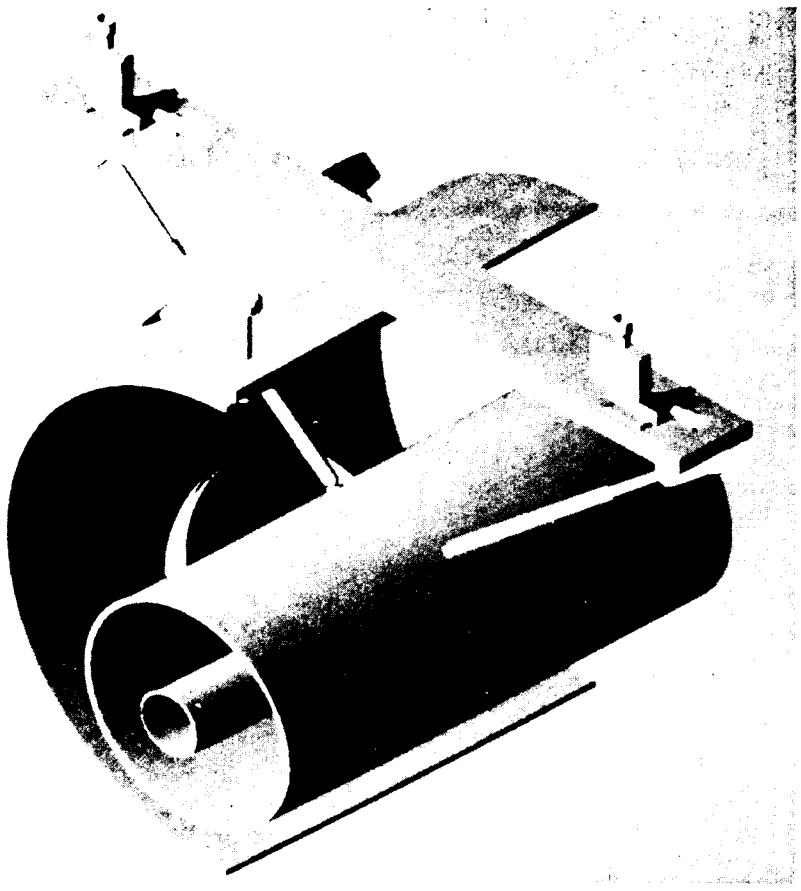
On the 1963 discovery of the Omega-minus (Ω^-) — "I came, raw, to Brookhaven in 1960 and was put into an office with Nick Samios [now Lab Director] that we shared through the golden age of bubble chamber physics. My memories of the Ω^- discovery concern midnight hours spent tracing beam problems with Nick, watching Ralph Shutt's courageous decision to continue running when the chamber appeared to be shaking itself to pieces, and, of course, the pervading excitement on the morning after the night of calculations that had proved the discovery real."

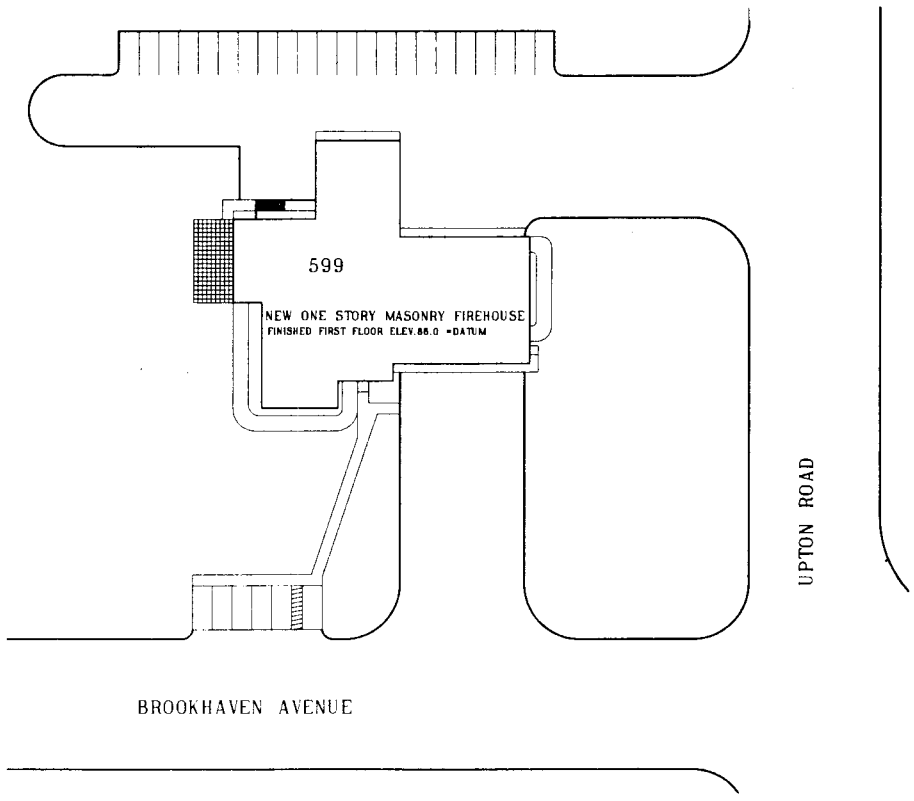
On the discovery of neutral currents, in the early 1970's —"Later in my career, working in Geneva, Switzerland, with another bubble chamber, I found myself entangled in the complex politics of the neutral currents discovery: discovered, undiscovered, half discovered, discovered by [Carlo] Rubbia, withdrawn by Rubbia, and finally published. The neutral current story is one of the psychology of science."

On the 1975 discovery of the charmed baryon — "Back with Samios again at Brookhaven, the troika was completed by the charmed baryon event. We were lucky with that one. It was so beautiful, yet sadly, few believed it."

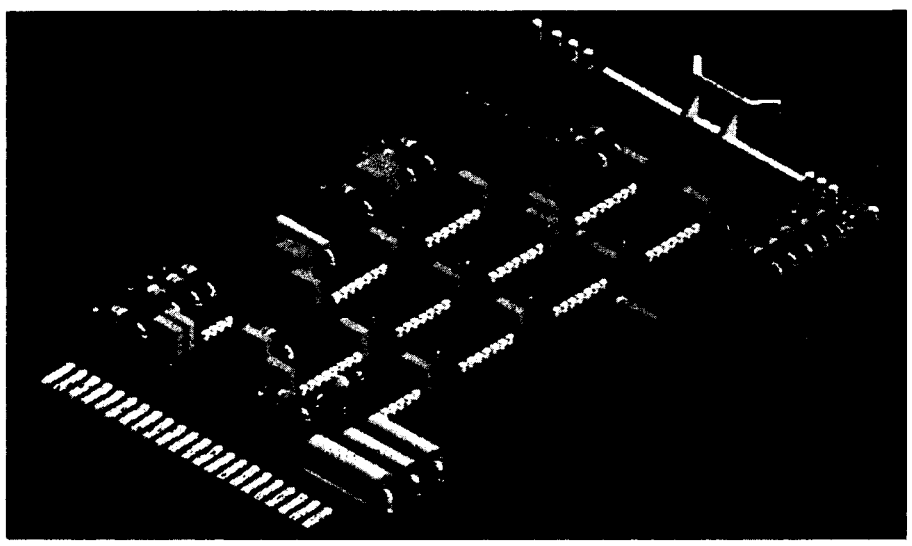
In addition, Palmer will talk about his more recent involvement with superconducting magnet development and his current work on "how to build an accelerator ten times the energy of the Superconducting Super Collider

(Continued on page 2)





The computer-aided design system at BNL was used to design and produce graphics of: (above) a device to survey the position of magnets within the Heavy Ion Transfer Tunnel, (below) an analog digital printed circuit board for the AGS, and (right) the floor plan of the new firehouse.



Engineering by Computer

Over 100 engineers from other national laboratories, universities and industry attended the fourth U.S. Department of Energy (DOE) Workshop on Computer-Aided Engineering, which was hosted by BNL last Thursday and Friday. During six sessions, thirty-nine papers were presented on the applications of computers used to aid engineering design and manufacturing, and on applications of programs which solve mechanical, electrical and architectural engineering problems.

According to BNL's Computer-Aided Design Manager, Ted Daniels, Applied Mathematics Department (AMD), the conference presentations and discussions highlighted new engineering projects with the DOE community. As well, it pointed out how the computer saves time and money by using it as a tool to design and analyze mechanical and electronic parts before they are made.

As Daniels explained during the first session of the conference, the BNL computer dedicated to engineering design is a Computervision 4101, which is housed in the AMD building. Six workstations connected to this computer are located at the National Synchrotron Light Source, the Alternating Gradient Synchrotron (AGS), Advanced Development Branch of High Energy Facilities, Plant Engineering and AMD. The terminals are used to produce two-dimensional drawings and three-dimensional models, which can be printed out, and sophisticated three-dimensional color graphics, which can be printed as photographs. Three workstations will be added soon, including one to be installed in Central Shops. The five-year plan is to have 50 workstations at the fingertips of BNL's designers, engineers and technicians.

Memory Lane (Cont'd)

(SSC) for, dare we hope, less money."

Robert Palmer did both his undergraduate and graduate work at the Imperial College in London. After obtaining a Ph.D in physics in 1960, he came to BNL, to the Bubble Chamber Group. Since then, Palmer's contributions have included playing major roles in the discoveries cited above; in an experiment employing liquid argon calorimeters, on which he collaborated at CERN's ISR accelerator from 1976-79; and in that experiment's 1978 discovery of direct single photons.

Palmer's interest in accelerator physics topics led him to invent the inverse free electron laser in 1972 and, in 1980, the grating laser acclerator. From 1980 to 1983, he primarily worked on magnet development for the ISABELLE Project, then for the SSC. After heading the ISABELLE Magnet Group from 1981-83, he became the Lab's Associate Director for High Energy Physics Research in 1983. In the meantime, he has continued to work on laser and other advanced accelerator ideas, and, in 1986, he will devote his full time to this work.

All those interested in getting together after the lecture are invited to go with the lecturer to a restaurant off site. If you want to be part of this group, call George Rabinowitz, Ext. 7637.

CREF Values

October	66.70	November	65.69
December	67.04	January	72.01
February	72.38	March	72.35
April	71.97	May	75.52
June	76.40	July	76.69
August	75.94		

September $73.77

Inside Info

Due to expanding activity in the Lab's environmental and safety programs, coupled with efforts to enhance the security of the site and the capabilities of BNL's protective forces, the Safety and Environmental Protection Division and the Safeguards and Emergency Services Division are being reorganized. Leonard Emma, who has extensive experience in successfully managing environmental safety and hazardous waste projects, has been named Associate Division Head for environmental matters in the Safety and Environmental Protection Division. Edmund Wojcicki, a trained professional security manager, is now responsible for a new division, named the Safeguards and Security Division. Both appointments were effective October 1.

The fire safety, fire and rescue emergency services, emergency planning and hazardous waste management activities will become part of Safety and Environmental Protection. Site security, protective forces and the associated security training and planning activities, as well as materials control and accountability, will fall under Safeguards and Security.

Cooking Exchange

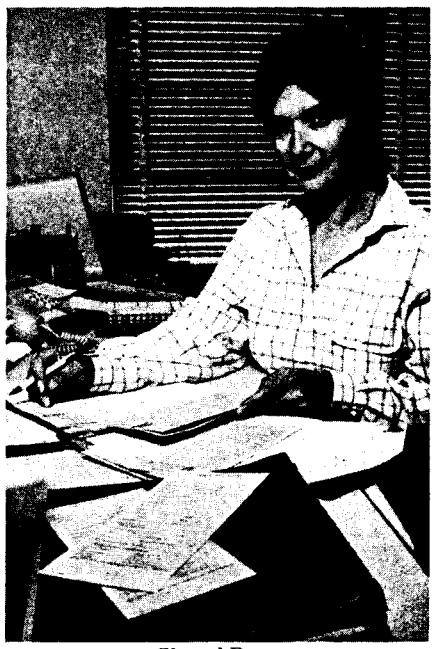
On Wednesday, October 23, members of the International Cooking Exchange will demonstrate a variety of Brazilian native dishes. The meeting will be held in the Recreation Building between 12:30 and 2:30 p.m. Call Lucia Cardosa at 282-3071 for more information.

Winner's Circle

Cheryl Baum is very organized, and, as executive secretary in the Architectural & Building Systems Division of the Department of Applied Science, she realized that there was a need to organize the paperwork generated by Laboratory travelers.

This realization prompted Baum to develop the travel envelopes that have earned her a $100 award from the Employee Suggestion System. With Baum's idea, as travelers collect the receipts that pile up during a business trip, they put them in the sturdy, letter-sized envelopes, which are backed with a form for jotting down such information as date and time of departure. At the end of the trip, the traveler simply turns the envelope over to the secretary.

Baum has been using the envelopes for several months, and they are fulfilling all her expectations, and more. "The response to the idea has been very positive," she says, "I've had many compliments."



Peter Horton

Cheryl Baum

Baum's travel envelopes are now stock items. Order S-32112 for standard travel and S-32114 for foreign travel.

PSI News

On Saturday, November 2, the Upton Chapter of Professional Secretaries International will present a day of professional enrichment workshops. The program begins at 8:30 a.m. and continues until 1:00 p.m., in Berkner Hall. There are three workshops: effective presentation, managing your career and laws that govern you.

The registration fee is $15 for PSI members and $18 for non-members. After today, registration fees are non-refundable, although you may still register until October 25. Send a check, payable to Upton Chapter, PSI, to Susan Carlsen, Bldg. 535A. Include your name, extension and building number; also indicate your choice of workshops.

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A meeting is scheduled for Tuesday, October 22, at 6:00 p.m. in Room C, Berkner Hall. On the program is a talk "Goal Setting — Certified Professional Secretary (CPS)," by Susan Bauer, CPS, Long Island Chapter President. Notify Sharon Moore, Ext. 3513, if you are attending.

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NYC Train Trip

The Hospitality Committee is planning a group railroad trip to New York City on Wednesday, October 30. Departure will be at 7:55 a.m. from the Patchogue LIRR station. Round-trip fare for adults is $5.00; children under five years ride free.

Reserve a ticket by sending your fare through the U.S. mail to BNL, P.O. Box 322, Upton, New York 11973. Please do not send cash. Checks or money orders, payable to BNL, must be received by Friday, October 25. Put the date of the trip, your BNL life number and your phone number on the back of your check or money order. Your tickets will be given to you at the railroad station on the day of the trip. Refunds will be made only if cancellations are received by the Monday morning preceding the trip.

Career Day

Brookhaven Women in Science invites junior high and high school girls with an interest in science, math or engineering to a career day on Saturday, October 26, from 10 a.m. to 3 p.m. in Berkner Hall. Called "Careers for Women in Science," the program is designed to alert female students to career options and employment trends in the scientific and technical fields.

Members of Brookhaven WIS will be on hand to discuss their work, and tours of the Exhibit Center will be offered. Films and literature about scientific and technical careers will also be available. The program is free-of-charge, so bring your daughter or niece the-future-scientist and her friends.

The Broadhollow Theater Players in the Richard Rodgers musical "Two by Two," to be performed at the BERA Dinner-Theater.

Tickets Going Fast !

If they weren't sold out yesterday, ticket sales end today for BERA's Special Event: a Dinner-Theater evening on Saturday, October 26. Tickets may be purchased from 11:30 a.m. to 1 p.m. in Berkner Hall for $22.50 per person.

The gala evening begins at 6:00 p.m. with a cash bar. At a quarter past the hour, women's apparel from Sophisticated Lady, Patchogue, will be modeled by Ann Mauro, DO; Marge Stoeckel, Fiscal, and others during a fashion show. Dinner will be served at 7:30 p.m. (see menu below).

A performance of "Two by Two," a comic tale of Noah and his family set to Richard Rodgers' music, will begin at 9:00 p.m. The musical, which originally ran on Broadway for 343 performances, stars the Broadhollow Theater Players of the Broad Hollow Theater in Farmingdale.

In the Bible, God commanded Noah to build the ark that saved human and animal life from the deluge. In the play, Noah has a hard time convincing his family there is going to be a flood and that the world will be destroyed. Even back then, a generation gap existed between Noah and his three sons, and on stage now, it provides some good laughs.

After the show, at 11:00 p.m., a Viennese dessert table will be rolled out, and coffee and tea served. Dancing begins at that hour as well, to live music by a three-piece band, George Oldham, PE, and his Sentimental Gentlemen, and records spun by disc jockey Ed Taylor, AMD. Though the clocks will fall back at that hour to Eastern Standard Time, the evening ends in the wee hours of the morning: 2 a.m. Daylight Standard Time.

MENU

Fresh Fruit Cup
Tossed Salad

Prime Rib of Beef
Baked Potato
String Beans Amandine

Chicken Cordon Bleu
Rice Pilaf
Candied Carrots

Red and White Wine
Coffee and Tea
Viennese Dessert Table

Cafeteria Menu

Week of Oct. 21, 1985

Monday, October 21		
Chicken rice soup	(cup)	.65
	(bowl)	.85
Ham & noodle au gratin & 1 veg		2.45
Veal Madeleine & 1 veg.		2.40
Hot Deli: Hot pastrami	(bread)	2.20
	(roll)	2.35
Tuesday, October 22		
Cream of mushroom soup	(cup)	.65
	(bowl)	.85
Pot roast of beef w/potato pancake		2.45
Baked chicken & 1 veg.		2.40
Hot Deli: Hot roast beef sandwich	(bread)	2.20
	(roll)	2.40
Wednesday, October 23		
Beef noodle soup	(cup)	.65
	(bowl)	.85
Fresh ham & 1 veg.		2.40
Beef stew w/ baking powder biscuits		2.40
Hot Deli: Chili dogs		2.00
Thursday, October 24		
Potato leek soup	(cup)	.65
	(bowl)	.85
New England boiled dinner		2.40
Sweet & sour pork over rice		2.40
Hot Deli: Grilled cheese Mexican		2.35
Friday, October 25		
Seafood gumbo	(cup)	.65
	(bowl)	.85
Veal Parmesan w/spaghetti		2.45
Seafood platter		2.45
Hot Deli: Fried clam boat		2.35

Mountain and Canoe Club

The BNL Mountain and Canoe Club is organizing a canoe trip on the Peconic River for Saturday, October 19. We will meet at Berkner Hall at 9 a.m. Please call Pat Thompson at Ext. 7635 (or at home, 929-8165) for information.

To plan future trips, the club will have a meeting on Wednesday, October 23, at 5 p.m. at the Brookhaven Center.

Bowling

Pink League
High games were bowled by Sharon Smith 180/190, Sandy Asselta 183.
Red/Green League
J. Muller rolled a 236, R. Larsen 233/211, W. Kristiansen 219, E. Sperry IV 212, T. Prach 211, A. Pinelli 200.
Purple League
Ed Sperry III had a 233, Denise Miesell 221, Clem Auguste 200, Marilyn Picinich 193, Sharon Smith 174.
White League
Ed Sperry IV bowled a 209, Dick Adams 205, Nancy Erickson 177, Jeannette Thiede 173/171, Pat Manzella 172.

Runners Corner

Many members of the BNL Runners Club participated in the Riverhead Country Fair ten-kilometer race on Sunday, October 14, and several finished well. Sharon Zuhoski won dual awards, placing first among all Riverhead women and fourth in her age group. Other medal winners were: Ed Meier, fourth among 20 to 29 year olds; Peter Boni, fourth overall and first of the 30 to 39's; Ed Gallagher, sixth among the 30 to 39's; Jerry Hastings, seventh of the 30 to 39's; John Brodowski, fourth among the 40 to 49's; and coach Gus Prince, first in the 60 age category.

In races among corporate teams this year, the club placed first at Dix Hills and Blue Point, second in a three-race event at Long Beach, and third at Cow Harbor.

For information about training, non-competitive or competitive activities of the Runners Club, contact Skip Medeiros at Ext. 2665.

Exercise and Weightlifting Club

A reorganizational meeting of the Exercise and Weightlifting Club will be held on Wednesday, October 23, at noon. All interested in working out for the sake of it or for other sports are welcome. For more information, call Rich Scheidet, Ext. 5284.

Arrivals & Departures

Arrivals

Felix Berrios ..... Sfgds. & Sec.
Charles L. Harmon ..... Sfgds. & Sec.
Livingstone R. Major .... Sfgds. & Sec.
Joseph Perillo ..... Sfgds. & Sec.
Frank A. Cetero ..... Physics
Marco Dunno ..... Plant Eng.
Beatrice E. Holle ..... Plant Eng.
Deborah A. Kerr ..... S&EP
William R. King ..... Central Shops
Creighton D. Wirick ..... DAS

Departures

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

Lester M. Corliss ..... Chemistry
Sherie Michaile ..... DAS
Patrick J. O'Malley ..... DAS
Pradip Saha ..... DNE
George Y. Markovits ..... DAS

Classified Advertisements

Placement Notices

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

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

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

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

LABORATORY RECRUITMENT - Opportunities for Laboratory employees only.

2343. SECRETARIAL POSITION - Requires good typing and communication skills to perform word processing, technical typing, records and form processing, file maintenance, sorting of mail and bulk mailings. Comprehensive knowledge of office practices is required. Department of Nuclear Energy.

2344. ADMINISTRATIVE POSITION -Requires BSME/EE with additional training in business administration and a minimum of 5 years' working experience. Requires extensive knowledge of cost analysis, project planning and scheduling utilizing a p.c. and substantial experience with BNL purchasing and contractual procedures. Will assemble, coordinate and monitor budgets and schedules and prepare management reports. Department of Nuclear Energy.

2345. SECRETARIAL POSITION - Requires AAS in secretarial science or equivalent, excellent communication skills and an extensive knowledge of Laboratory policies and procedures. Familiarity with Micom word processing is strongly desired. Must be able to obtain DOE "Q" clearance. Safeguards and Security Division.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside applicants.

2346. INDUSTRIAL HYGIENE ASSOCIATE - Requires an MS or equivalent in industrial hygiene, toxicology, environmental health or related discipline. Responsibilities include literature research, evaluation of toxic effects of chemicals, preparation and review of information for a computer data base and preparation of toxic material assessment /advisory reports. Safety and Environmental Protection Division.

2347. TECHNICAL POSITION - Requires an AAS in mechanical technology or equivalent capabilities plus several years experience in the fabrication, testing and construction of large research equipment. Position is with a high energy physics group that is involved with the construction of a complex detector system. Knowledge of power and hydraulic equipment will be helpful. Physics Department.

Autos & Auto Supplies

TIRES - (4) P155/80R13 on rims, also space-saver spare, $45. Ext. 4597 or 924-8213.

80 DATSUN - 4 WD pick-up, custom tires and wheels, am/fm stereo cassette, good cond. Annamarie, Ext. 2352 or Gil, 473-9016 a.m.

76 MGB CONVERTIBLE - excel. cond., 50k mi., garaged, new battery, tires, spoked wheels, $2,700. J. Pontieri, 289-3158.

80 HONDA CIVIC - 1500 DX, 5 spd., am/fm 8-track, clean, reliable, 40 mpg, $1,700. Patty, 281-8957.

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

69 MUSTANG GRANDE - needs engine, rebuilt trans., new front end, many new parts, body mint, $850. 475-0002 after 5:30 p.m.

82 CHRYSLER LEBARON - mint cond., front w/d, p/s, p/b, stereo cassette, $4,200 firm. John R., Ext. 3397 or 732-2702.

78 MUSTANG - V6, 4 spd., 54k mi., clean, make offer. Ext. 4489.

78 KZ400 - very good cond., low mi., 50+ mpg, $700. 281-0360 after 6 p.m.

84 RENAULT ENCORE - 4 spd., a/c, am/fm cassette, 32 mpg, 60k mi., warranty. Ext. 3173.

FRONT FENDERS - (2) for Jeep CJ-5, good cond., both $45. Joe Bush or Dick Dietz, Ext. 4638.

78 JEEP WAGONEER - good cond., 4 WD, towing package, CB, a/c, many extras, $3,500. Ext. 2482.

78 PONTIAC PHEONIX - 2 dr., a/t, a/c, V6, full power, excel. cond., $2,500. 653-5243.

75 FORD LTD - station wagon, $500 or best offer. 924-7262 after 6 p.m.

80 VW RABBIT - diesel, am/fm cassette, sunroof, blue, high mi., $1,500. Frank, 722-3887.

73 PINTO - am/fm stereo, new tires, all new parts, no rot, mech. excel. 226-1828 after 5 p.m.

CHEVY ENGINE - 350 HP, in 1968 Camaro, body needs work, many extras, $2,000. 584-5933 after 6 p.m.

78 CADILLAC ELDORADO - black/red leather, all extras incl. Astro roof, 56k mi., $3,500. Ext. 4853 after 1 p.m. or 821-2932 eves.

77 MERCURY WAGON - (9) passenger, loaded, good cond., good tow vehicle, $1,700. 286-0505.

RACING GO-KART - 2 cycle, Yamaha engine and chassis with many extras, spares, $1,000. 878-6469.

74 PLYMOUTH SATELLITE - 4 dr., 8 cyl., 93k mi., runs well, good tires, $600. Bud, Ext. 4423 or 286-8673.

75 CHEVY VEGA - hatchback, very good transp., $800 neg. Ext. 3423 or 924-5549.

79 PACER WAGON - tan, good cond., a/c, p/w, am/fm stereo, high mi., $850. Otto, Ext. 4248.

82 CHEVY MALIBU CLASSIC - very good, $4,900; 78 Cadillac Fleetwood Brougham, very good cond., $4,900. 475-4596.

TRAILER HITCH - Class I, 2,000 lb. capacity, $35. Ext. 2514 or 757-3178 eves.

75 CHEVY NOVA - rebuilt eng., new tires, 20 mpg, very reliable, $1,200. John, Ext. 3698 or 421-4891.

77 DATSUN B210 - 4 dr., 5 spd., $250. Ext. 2184 or 269-9836 after 5 p.m.

72 OLDS 98 - 4 dr., hardtop, fully equipped, $500. 281-6026 after 5 p.m.

83 MERCURY MARQUISE - fully loaded, like new, $6,500. Debra, Ext. 2896 after 3 p.m.

67 DODGE DART - 225 eng., runs well, $300. Ext. 7531 or 929-3550.

16' TRAILER - stove, icebox, toilet, sleeps 6, 1600 lb., clean cond., $900 neg. 878-9035.

76 FORD VAN 351 - a/t, show van flares, spoiler, sunroof, refrig., sink, toilet, bed, excel. cond. Ray, Ext. 3536 or 289-7615.

75 PLYMOUTH VALIANT - slant 6, 6 cyl., a/c, p/s, p/b, rebuilt trans., runs well, $1,100. Est. 2733 or 475-5448.

83 DATSUN NISSAN PULSAR - 4 dr., hatchback, 5 spd., a/c, p/s, p/b, t/s, am/fm stereo, 35 mpg, $5,975. Rich, Ext. 7520 or 473-4558 after 5 p.m.

79 BUICK REGAL - V6, a/t, p/s, p/b, am/fm stereo, body & inter. excel., $3,350. Barry, Ext. 5624 or 727-5956.

67 CHRYSLER - convert., new top, p/s, p/b, p/w, a/t, 383 V8, $2,700. Tony, 698-9274.

78 FIAT SPIDER - good cond., needs paint, $2,700. neg. Tom, Ext. 5275.

72 DODGE CORONET - some rust, needs work, $300. 878-2702 after 6 p.m.

83 CAMARO Z-28 - silver w/black inter., T-top, am/fm cass., alarm, many extras, $8,800. Tom, 757-2178.

78 FORD FAIRMONT - a/t, excel. mech. cond., new brakes, 58k mi., $1,500. Ext. 2914 or 286-3742 eves./weekends.

78 DODGE ASPEN - Special Edition, a/c, am/fm radio, good tires, new starter & alt., clean, runs well, $1,100. Ext. 2945 or 744-4594.

80 TRANS-AM - a/c, new brakes, shocks & tires, am/fm stereo, 43k mi., $5,800 neg. 929-4957.

78 HONDA CIVIC - 4 spd., 33-38 mpg, excel. running cond., no rust, new carb., battery, muffler, orig. owner. Divadeenam, Ext. 5076 or 744-4615.

76 HONDA CIVIC CVCC - rebuilt eng., new tires, snows, runs great, $850. 286-3509 eves.

77 FIREBIRD V-6 - a/t, p/s, p/b, red w/white inter., excel. cond., $3,200. Ann, 585-3417.

80 MERCURY CAPRI - hatchback, 4 spd., a/c, p/b, p/s, Dolby cass. stereo, CB, mint cond., $3,675. Denise, Ext. 3417 or 587-7034.

76 CHEVY LUV - 4 cyl., am/fm cass., tool boxes, $1,800. 563-2751 after 5 p.m.

72 NOVA - 6 cyl., good running cond., $600. Rich, Ext. 7148 or 588-9452 after 5 p.m.

71 TORINO - 68k mi., excel. mech., body fair, $500. Steve, Ext. 4008 or 821-0686.

73 NOVA 350 - 300 HP, built for racing, many extras, $3,500. William, 744-2204.

79 CHEVY SUBURBAN FWD - p/s, p/b, brown/-cream, $5,500. Ext. 4677 or 289-6407 after 7 p.m.

78 MUSTANG - a/t, p/s, p/b, 4 cyl., rebuilt eng., am/fm cass. stereo, good cond., $1,200. 929-4358.

RIMS - used w/tires, 8.25-14 for large Ford or Ford Mustang. Dolores, Ext. 2950.

76 BUICK SKYLARK - a/c, (2) new tires, new battery, V6, good cond., $1,100. 567-3655 eves.

77 OLDS OMEGA - 6 cyl., a/t, good cond., reliable transp., $950. 588-5287.

78 PONTIAC SUNBIRD - 82k mi., stand. trans., body excel., $1,000. 736-0651.

82 DIRT BIKE RM125 - rebuilt, new Metzlers, $675 neg. 722-4821.

73 CHEVY IMPALA - p/s, a/c, runs well, $400. Jim, Ext. 3372.

Boats & Marine Supplies

25' O'DAY - 1983, tall rig, fin keel, diesel I/B, VHF, (4) sails, cruising, racing, safety gear, like brand-new, $19,500. 929-4173.

PUMP - 12 V, Simer impeller type with hoses, 300 gph, slightly used, lists $83, sell $25. Ext. 4745 or 744-3225.

16' 4 Winns - 1983 V-hull bowrider, 120 HP Merc. cruiser, 15 hrs., full canvasses, galvanized trailer, power winch, garaged, $7,800 firm. 286-8797.

21' RENKEN - 1979, Cuddy, 120 HP Volvo I/0, many extras, excel. cond., $4,000. 654-5584 eves.

22' O'DAY - 1982, 3 sails, VHF, electric start, 7.5 Mercury, many extras, $15,000. 698-8158

Miscellaneous

TIME-LIFE BOOKS - (8) volumes, Vietnam War, $80; (40) volumes, World War II, $200. Walt, Ext. 5316.

FOOD PROCESSOR - Bosch, 450W/110V, keeps 6 lbs., w/access. Monika, Ext. 3117.

STILTS - child's, adjustable, metal, $15. Ext. 4846.

PING PONG TABLE - good cond. Dorothy, 744-9016.

DEEP WELL PUMP - ¾ HP, 3 yrs. old, glass lined tank, 6 mos. old, $150. 924-6751 eves.

DINING ROOM SET - table, (5) chairs; queen size mattress, all in good cond., best offer. Ady, Ext. 4531 or 331-3785.

FARBERWARE OPEN HEARTH - w/rotisserie, brand new, cost $60, sell for $40; ski rack, trunk mount, holds (4) pairs of skis, $30. Pat, 589-4938.

COAL STOVE - Scotia, 30 lb. cap, cylinder style, $300. M. Bonanno, 399-6367.

ELECTRIC WASHER - and dryer, Sears Kenmore, large capacity, works well, $150. Pierrick, Ext. 7591 or 736-0073.

GE REFRIGERATOR - range-top, self clean wall oven; dishwasher, excel. cond., $600. 821-0794 after 6 p.m.

WICKER ROCKING CHAIR - antique wrap around, excel. cond., $125. 567-8609 or 475-8971 after 6 p.m.

SLEEP SOFA - brand new, $350 or best offer. Anne, 427-0987 after 6 p.m.

HOPE CHEST - Lane, cedar lined, Colonial style, excel., $175. Duke, Ext. 2957 or 289-3586.

RECLINER - Barcalounger, swivels & rocks, brown vinyl, $75. Ext. 5154 or 744-2373.

BURLAP - new, 4'wx57'l, $12. 727-3608 after 5 p.m.

MATTRESS - Sterns and Foster, queen size, boxspring and frame, excel. cond., $300. G. Ince, 286-0682.

BOY'S COAT - Sears, all weather, new, size 7, zip-out pile lining, tan, polyester and cotton, trench coat-style, orig. $30, sell for $16. 499-0637.

PUPPIES - AKC Chesapeake Bay Ret., bred for temp., welped 9/3/85, CH Dam OFA. 288-9077 or 288-3535.

HEDGE TRIMMER - 13" Rockwell, double edge cutter, $15. Ext. 4060 or 475-0002 after 5:30 p.m.

JADE PLANT - in 10-½" pot with 30" spread, 32" high, very healthy, $50. Ext. 3173.

SWAG LIGHT FIXTURE - for kitchen, Tiffany-style, light green and white, $25; wagon wheel 5-lantern chandelier, $45. Pat, 589-4938.

FIREWOOD - split, seasoned oak, 4'x16'x20-22" pieces, $110 delivered. 732-2849.

TELESCOPE - 3 inch Unitron, Equatorial mount, drive motor, tripod, carrying case, new cost $1,300, sell for $595. 589-3608.

HOOVER VACUUM CLEANER - upright model, w/bags, like new, $60; (2) twin feather down comforters, (4) pillows, hardly used, $200. Paul, Ext. 4106 or 689-8675.

TENNIS SHOES - woman's Nike, size 7-½, leather, $20. Chris, Ext. 2907.

BABY ITEMS - Lulabye crib w/mattress; plaid carriage; white bassinet; playpen; swing-o-matic swing, car seat, all in very good cond., $100. 281-0360.

ELECTRONIC TYPEWRITER - S/C, like new, reasonable; space heater, new. 363-7032.

DINING ROOM SET - 1925, very large table, (5) chairs, china cabinet, mahogany, $350. 744-3792.

SEWING MACHINE - Singer, in cabinet, w/bench, good cond.; sturdy dinette set, $25; Presto pressure cooker, $10; club alum. roasting pan and cover, $5; 5-gal. pickling crock, $12; wooden playpen, $12; high chair, $7. 878-6637.

WOOD STOVE - Llange, good cond, $350. Ext. 7697.

BEDROOM SET - light pine dresser, double mirror, (2) night stands, queen size mattress set, matching head and footboards, $400. Ext. 2877 or 289-8428.

BURLAP - new, 4 ft. wide, 57 ft. long, $12. 727-3608 after 5 p.m.

RED LORD AMAZON PARROT - tame and talking, cage, avail., health guaranteed, best offer over $350; peach-faced Love Birds, health guaranteed, cage, food, $100 pair. 472-5956 or 333-5469.

SLIDE PROJECTOR - Airequip model 950, zoom lens, 11 carousels, 16 cartridges, $65. 929-4326.

VCR - GE, cable ready, needs head, $75. Rich Bernier, Ext. 4669.

STEREO - Clarion, 8-track, 4-channel player, (4) speakers, turntable, good cond., $75. Ext. 7112 or 472-1922.

DRAPES - gold, for 6 ft. sliding dr., $8; music stand, $5; 10 spd. bike, $60. Ron, Ext. 4082 or 289-1003.

FURNITURE - baby changer, like new, $30; (3) tables, formica top, $20; twin headboard, $15; night table, $15, double bed w/mattress and box spring, $50. 751-1884.

SHREADER - Sears, elec., $50. Don, Ext. 4821 or 286-2267.

TRUMPET - w/case, $50. Jim, Ext. 3372.

MINI-WASHER - & dryer, good for apt., both $100; 7" table saw, w/motor, $50. Victor, Ext. 2395.

WASHER - Whirlpool, heavy duty, excel. cond., avocado green, $135. Jim, 265-8551.

KEROSENE STOVE - Kero Sun, 10,000 btu, almost new, $65; Lacrosse sticks, $15; Lacrosse helmet, almost new, $20. Tony, Ext. 2462.

RECORD PLAYER - Phillips GA212 Electronic, Shure V-15 Type III cartridge, diamond stylus, excel. cond., $130. Corliss, 472-1585.

ELECTRIC BROOM - Hoover, excel. cond., $16. 751-1884.

BABY CARRIAGE - good cond., $20; timing light, $15. 567-9025 eves.

GENERATORS - Agtronic, Powerguard, all sizes, multi-fuels. J. Medina, Ext. 7636 or 654-3472.

WESTERN BOOTS - woman's size 7M, Acme, leather, brown w/design, 3" heel, cost $100, sell $60. Nancy, Ext. 5274 or 281-2767 eves.

MAGAZINE RACK - Colonial, dark pine, $10. Karen, Ext. 4262.

FLUOR. TUBE LIGHT - training wheels; house plants; safety child gate; child desk; other items. 689-9282.

WASHING MACHINE - GE, brown, $50; new single Hollywood bed, w/frame, $50; (2) end tables, 20"x30", both $30; velour wine upholstered

wing-back chair, one leg broken, $10. 281-7844.

RACCOON SECTION COAT - full length, size 8, very good cond., $250. 475-4792 after 5 p.m.

REFRIGERATOR - old, electric, not frost-free, Frigidaire, clean, excel. cond., $50. Tom, Ext. 4084 or 878-1060.

PLAYPEN - w/pad, like new, $35. Ext. 3696.

CANON CAMERA LENSES - 28mm, 55mm fl.4, 70mm-210mm zoom, all three for $250. Ext. 4524.

GRAPHICS TERMINALS - Tektronix Model 4006-1, $350; Hardcopier Model 4611, like new, $1,000. 331-1701.

MATTRESS - w/box spring, queen, good cond., $125. Mark, Ext. 7708 or 744-0903.

CARNEGIE HALL TICKETS - (2), Vienna Chamber Ensemble, Nov. 1, $30. Steve, Ext. 4008 or 821-0686.

COMPUTER - Radio Shack Model TRS80-MC10, micro-color, like new, $45. Ext. 7772.

DINING ROOM SET - table w/leaf, (4) chairs, china closet, buffet, $175. Ext. 7732.

BICYCLE - BMX, Diamondback, formula one, w/extras, $175 firm. 722-4821.

Free

OLD TV'S - (2), both working, one needs some work. 751-3551.

SLIDING GLASS DOOR PLATE - standard 8'. Joe, 475-8440 after 6 p.m.

LABRADOR-SHEPHERD MIX - desperately needs home, male, 1 yr., 50 lbs., healthy, loving. 331-1150 or 744-7338 eves.

Car Pools

HUNTINGTON - drivers or riders desperately needed to share gas expense. Anne, Ext. 3563.

MATTITUCK - 3 drivers, want a 4th. Ext. 3140.

Real Estate

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

For Rent

SOUND BEACH - 2 bdrm. house, f/p in l/r, encl. porch, oil hot water, $400 plus ½ util. Shields, 744-8812.

BELLPORT - 1 bdrm. apt., 20 min. from BNL, $500 mo. incl. util. 286-1489 after 6 p.m.

SOUND BEACH - 2 bdrms., 1-½ baths, l/r, kitchen, patio, util. and cable incl., please no pets, $500 mo., starting Nov. 744-4086.

CATSKILLS MTS. - brand new chalet, 3 bdrms., 1 bath, sleeping loft, fully equip. kitchen, near Hunter & Windham Mts., good for skiing and hunting. Bea, Ext. 3642 or Judy, Ext. 3595.

MEDFORD - Blue Ridge condo., 1 or 2 bdrms., near clubhouse, golf, tennis, immed. occupancy, $700 mo. plus util. 298-8918 before 6 p.m. or 736-1729 eves.

E. PATCHOGUE - S. of S. Country Rd., 2 bdrms., l/r, eik, bath, priv. ent., no pets, avail. Dec. 1, $420 mo. + util. Walt, Ext. 2907 or 698-0576.

MYRTLE BEACH, SC - oceanfront condo., 2 bdrms., 2 full baths, sleeps 6, balcony view of ocean, pools, sauna, Jacuzzi on premises, 36 golf courses in area. Owner, 584-7258.

WADING RIVER - 2 story, 3 bdrm. house, water view, fully furnished, $600 mo. + util., lease Nov-May, nonsmokers only. 929-8443.

E. MORICHES - small house, 3 bdrms., 2 baths, wood stove, garage, ½ block to bay, 1 yr. lease, $680 mo. + util. Michael, Ext. 2081 or 878-9384 after 6 p.m.

MASTIC BEACH - spacious 1 bdrm. apt., full bath, full kitchen, d/w, d/r, priv. ent., nice neighborhood. Jim, 281-2849.

MASTIC - roomy 3 bdrm. apt., full bath, l/r, d/r, 10 min. to Lab, $625 mo. incl. heat. Jim, 281-2849

For Sale

COOPERSTOWN - 190 acres, ½ cleared and in crops, adjoining state land, deep well, $425 per acre. 363-7032.

S. JAMESPORT - ½ acre, priv., short walk to beach, wooded, $38,500. 727-7741 after 6 p.m.

PORT CHARLOTTE, FLORIDA - W. coast property, 120'x125' high-dry-land, walking distance to Peace River, direct access to Gulf. $20,000. 732-8216 after 5 p.m.

BROOKHAVEN - 12 acres, trees and shrubs, in estate surroundings, large barn, 14" top soil, 2-4" wells, terms. Jim, Ext. 4040 or 289-0876.

LAKE PANAMOKA/RIDGE - 3 bdrm. ranch, l/r, d/r, eik, 80'x100' treed lot w/above ground decked pool, incl. cathedral ceilings, extra insulation, 2"x6" construction, landscaped and decorated. $85,000. 929-8748.

RONKONKOMA - 3 bdrm. ranch, full basement, fenced yard. 585-3417.

ROCKY POINT - contemp. soaring ranch, 3-4 bdrm., central a/c, gas heat, gourmet kitch., fenced yard, priv. beach, $127,500. 821-1039.

Wanted

SHOP MANUAL - for 1973 Firebird. Mickey, Ext. 3173.

ROOMMATE - to share large house, Sayville, walk to beach and ferries, $600 mo. incl. all. Ext. 7717 or 589-8394 eves.

FLEXIBLE SKATE BOARD - Liz, Ext. 2318 or 286-8563.

SQUASH RACQUET - good cond., reasonable. Ralph, Ext. 2368 or 928-6654.

TRIKE OR QUAD - good cond, reasonable. Joe, Ext. 4638 or beeper 572.

HOUSE TO SIT - while you are away on vacation or business, would consider short periods, Ext. 4072.

ROOMMATE - to share a condo. town house, woman preferred, "Whispering Pines", 2-½ mi. from Lab, $450 mo. 924-9293.

GIRL SCOUT/BROWNIE UNIFORM - size 10. Joe, Ext. 3372 or 929-6495.

BABY SITTER - for 9-month old child, prefer on site, non-smoking. Pete, Ext. 7190.

PEOPLE TO HAVE HOUSE PARTIES - no investment, high commission, leather goods, jewelry, novelties. Reggie, 472-3236.

MEAT GRINDER - manual or electric in working condition, reasonable. 928-6944.

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