BROOKHAVEN BULLETIN
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BROOKHAVEN NATIONAL LABORATORY

A Visitor's View

Bogdan Povh, Max Planck Institute

A symposium on Hypernuclear and Kaon Physics has been in session all this week in Berkner Hall. Today is the last day, and the very last speaker will be Bogdan Povh. Povh, the Director of the Max Planck Institute for Nuclear Physics in Heidelberg, West Germany, is the logical person to offer an overview of this conference because he was chairman of its predecessor, held in Heidelberg in 1982.

The Max Planck Institute (MPI) is named for the German physicist who won the 1918 Nobel Prize in physics for evolving quantum theory in thermodynamics. It was founded some 25 years ago — about the time that Bogdan Povh was beginning his career in nuclear physics. From his native Yugoslavia, Povh came, in 1957, to study at the California Institute of Technology. While pursuing his studies in nuclear physics, he found time to pay his first visit to BNL in 1959. In later years he returned as a summer visitor at the Tandem Van de Graaff accelerator.

In 1965, Povh became a professor at the University of Heidelberg and began his association with MPI as a guest scientist there. Ten years later, he was invited to join the Directorate of the Institute and, this year, began a three-year term as Director.

When MPI was created, the emphasis in nuclear physics was on low-energy research, using Tandem Van de Graaff accelerators. But energies have increased and, as they have, nuclear physics is faced with many more possibilities for experimentation, given the proper tools, such as electron accelerators, relativistic heavy ion accelerators or high intensity proton facilities. With only 300 permanent employees, about 70 of them scientists, MPI is too small to support these types of machines. "But we want to be actively involved as an institution in opening new facilities," Povh says, "so one of my main concerns as Director is to define the new directions of the Institute."

That must be done within the Institute's present framework, which includes two main departments: nuclear physics and cosmophysics. There is some overlap between the two. For instance, the heavy ion program at MPI now uses a Tandem to supply researchers with heavy ions up to gold. In the next year, says Povh, this accelerator will become the injector for more exotic experiments at a small heavy ion storage ring at MPI, which will use electron cooling to assure good beam quality. "A main goal of this storage ring," explains Povh, "is to look at atomic physics phenomena with highly ionized atoms in a plasma of electrons." This mixture can simulate such astronomical situations as solar flares, for research in astrophysics.

But the primary use of this ring, Povh says, will be to help nuclear physicists at MPI learn how to polarize antiprotons, in preparation for experiments at CERN, the European high energy physics laboratory that is only about 300 miles — a six-hour drive — from Heidelberg. Povh has time to participate in this work because, he says, "The infrastructure at the Institute is so good, being Director is not a full-time job."

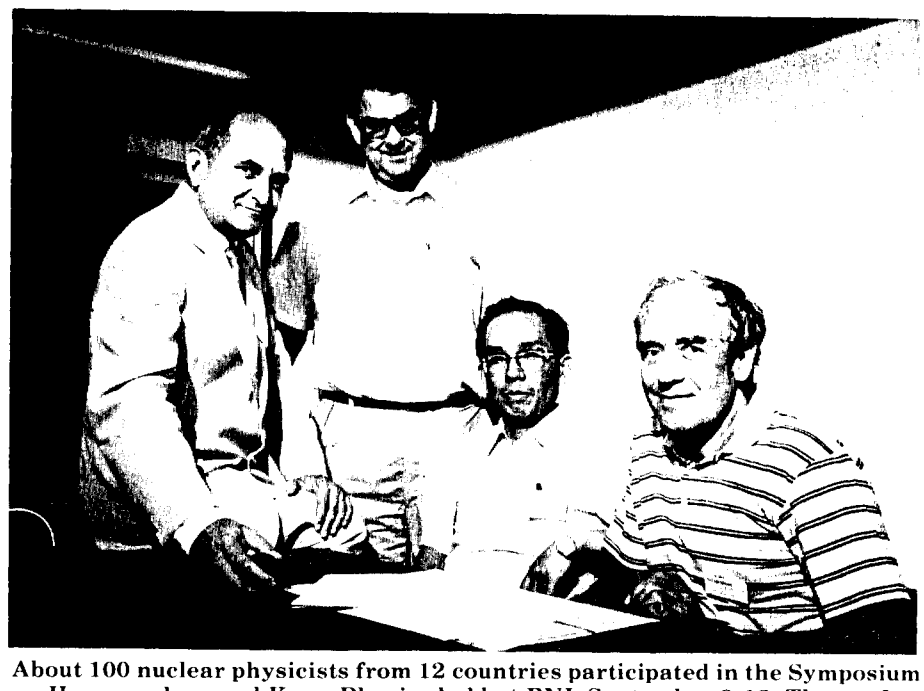
While low-energy antiproton physics is high on Povh's list of personal research interests, nuclear physics with strange particles is on top. Specifically, he is interested in learning how the nuclear force emerges out of confined quarks. Quarks are the fundamental entities that bind together in trios to form nuclear particles, or in pairs to form mesons. This binding, or confinement, is so strong that a free quark has never been seen. "Confinement," says Povh, "is a completely new physical phenomenon and has no real analogy, so studying it gives nuclear physics the opportunity of opening a new frontier."

The essence of this frontier would be a better understanding of the relationship between nucleon structure and nuclear forces, which usually involves fairly common "up" and "down" quarks held in balance by the "strong" force. When another type of quark, the "strange" quark, enters the nucleus, the balance can change, creating a hypernucleus. "The classical nuclear physics cannot test the relationship between nuclear structure and forces," says Povh, "but my belief is that in nuclear physics with strange particles, the in topic of this conference, lies great potential for learning about this connection. At the moment, they are the only particles accessible to work with experimentally."

The strange particles to which Povh refers are K mesons, or kaons, which are made up of one "strange" quark and one "up" antiquark. They are relatively easy to produce, and, to provide the very high intensities of kaons that would be needed to explore the relation Povh describes, several groups in the worldwide nuclear physics community are considering developing high intensity proton facilities, also known as "kaon factories" (see story on page two). Povh would welcome such a machine and says that, as Director of MPI, "My main goal is to support this institution with the realization of either a new dedicated machine for this type of physics, or upgrading some of the world's present machines for this work."

Until a high intensity proton facility materializes, Povh see the proposed upgrading of the present kaon beam line at BNL's Alternating Gradient Synchrotron (AGS) as a "very important bridge" between present and future kaon and antiproton studies. Because developments at the AGS, both in kaon and heavy ion physics, are so important to the research interests of scientists at MPI, Bogdan Povh expects his long association with BNL to continue far beyond his concluding talk today.

— Anita Cohen



Mort Rosen

About 100 nuclear physicists from 12 countries participated in the Symposium on Hypernuclear and Kaon Physics held at BNL September 9-13. The conference is the latest in a series of meetings held at various international locales every three or four years since the early 1970's, when BNL physicist Harry Palevsky, now retired, organized the first one. The purpose of the symposium was to review the experimental work that has taken place since the last meeting, share theoretical interpretations of results and discuss ideas for possible new facilities for this type of research. Among those involved in the conference are (from right) Bogdan Povh, Max Planck Institute, Heidelberg, West Germany, who delivers the conference summary and overview today (see "A Visitor's View"); Hiro Bando of Fukui University in Japan, who gave a theoretical talk on Tuesday; John Domingo, Director of Research at the Swiss Institute for Nuclear Research, who yesterday reviewed European plans for a "Kaon Factory"; and BNL Physicist Robert Chrien, who was chairman of the conference. Carl Dover was responsible for arranging the scientific program at the symposium, while John Millener planned all social functions.

The Call of Science

The following articles are the second in our series of profiles of BNL scientists. This time, we take a look at two chemists to learn of their interests and how they became involved in science.

Robert Thomas

Robert Thomas is a BNL Chemist who enjoys running and playing tennis when he is not at the Lab or with his wife working on their home. His training as a physical chemist led him to specialize in crystallography.

Peter Horton

"I began by learning how to analyze crystal structures in order to apply that structural information to interesting problems in chemistry, usually ones dealing with questions of chemical bonding and the like." He is currently working on the crystal structure of the high pressure antiferroelectric phase of cesium dihydrogen phosphate, and presented a report of his findings at an international conference on ferroelectricity in Japan last month.

Thomas was born in Atlanta, Georgia almost 51 years ago. "As a black person in the South, when I was a child I was acutely aware of the limitations on any opportunity that I might have to control my life. . . No one in my family had been a scientist before me. My father went to school only until the third grade and was a domestic servant for most of his working life. My mother, on the other hand, was a registered nurse with

(Continued on page 2)

Garman Harbottle

Art and Science are the defining features of civilization. To be sought after by experts in both fields is rare. Yet, the expertise of Garman Harbottle bridges both branches of knowledge and has won him that recognition.

Harbottle is a Senior Chemist at BNL. He says he is first and foremost a researcher, concerning himself with "the application of physical/scientific methods to problems that arise in archeology and the fine arts." To be precise, Harbottle applies a process known as neutron activation analysis and nuclear dating techniques to determine the physical or temporal origin of a given artifact.

Harbottle's own physical and temporal origins can be traced back to Dayton, Ohio, 1923. As the son of a school administrator and a teacher, Harbottle was assured a sound education. From a public grade school in Dayton, he went to a prep school in Arizona. His uncle, a civil and electrical engineer, saw to it that young Harbottle was sent to the California Institute of Technology where he could work toward a degree in the physical sciences. In 1944, with his B.S. in

(Continued on page 2)

Peter Horton

Accelerators Around the World

The Case for a 'Kaon Factory'

This article is one of a series of occasional pieces designed to acquaint BNL employees with particle accelerators around the world. Here, the focus is on accelerators associated with hypernuclear and kaon physics.

At present, hypernuclear physics is done at only two laboratories worldwide. One of these is KEK, the Japanese high energy physics laboratory. KEK boasts a 12-billion electron volt (GeV) proton beam, which provides two beam lines for kaon experiments. The primary proton beam is made to interact in a heavy metal target, and it produces large amounts of secondary particles, including pions (pi mesons), kaons (K mesons) and antiprotons. The K2 beam provides antiprotons and kaons in the 1-2 GeV/c momentum range, while the K3 beam provides them below 1 GeV/c.

The other laboratory is BNL, where hypernuclear physics is done at the LESB1 kaon beam line at the 30 GeV Alternating Gradient Synchrotron (AGS). Critical to the work done there is the hypernuclear spectrometer, mounted on a large rotating platform called "Moby Dick," which can swing to observe reactions at angles from -5 to 45 degrees. An upgrading program completed in 1983 boosted the kaon intensity to over 10^5 kaons per beam spill at a kaon momentum of 800 MeV/c (million electron volts). This high intensity makes possible experiments that are not feasible at KEK.

Still, to push hypernuclear and other kaon physics to their logical limits, neither KEK nor the present AGS produces enough kaons; to investigate the frontiers of nuclear physics, intense beams of pions, kaons, antiprotons, muons and neutrinos are needed. And the nuclear physics community wants to do something about that.

At BNL, for example, Robert Chrien, who heads the Intermediate Energy Group in the Physics Department, has written a proposal for a 1-2 GeV/c beam line at the AGS. Incorporating a design suggested by Harold Enge of MIT and developed by Philip Pile of BNL, the new beam line would permit kaon research in a region hitherto inaccessible to experimenters and could be available as soon as 1988. As designed, the beam line would provide kaons at intensities of over 10^6 particles per spill, which is an order of magnitude greater than that currently available. And if the booster ring proposed for the AGS is approved, that intensity could increase to 4×10^6. This intensity increase is important for all aspects of AGS research, including heavy ions, rare K decays and neutrino production.

Even at these intensities, however, the AGS would not be considered a "kaon factory." More correctly called a high energy proton facility, such a kaon factory would provide proton intensities approaching 10^{15} per second, and these, in turn, would produce kaon intensities orders of nitude more powerful than so far available. This concept is generating a great deal of interest around the world. A kaon factory could be created by upgrading one of the medium energy accelerators where nuclear physics is being done. Among the contenders are:

- LAMPF — In operation since 1972, the Los Alamos [National Laboratory] Meson Physics Facility is a linear accelerator that brings protons and negative hydrogen ions to 800 million electron volts (MeV) before producing secondary beams of such particles as pions, muons and neutrinos.
- SIN — The Swiss Institute of Nuclear Research is based on an isochronous synchrotron that produces a beam of 600-MeV protons. SIN is one of several places being considered by the German, Swiss and Italian nuclear physics as a possible site for a European Hadron Facility.
- TRIUMF — Three Canadian universities were originally involved with this Vancouver-based accelerator, hence its name: TRI University Meson Facility. Also an isochronous cyclotron, TRIUMF accelerates negative hydrogen ions to 500 MeV, and these are stripped to produce protons for extraction.

Though a completed high intensity proton facility is not likely to appear on the horizon anywhere for another 10 years, the possibility of building one at any of these machines was an interesting topic of discussion at the Symposium on Hypernuclear and Kaon Physics held at BNL this week. "In the meantime," says Chrien, "the AGS remains the premier producer of kaon beams." — A.C.

Computer Expert to Lecture

Commodore of the Navy Grace Murray Hopper has been invited by Brookhaven Women in Science to talk on "Future Possibilities: Data, Hardware, Software and People" at 3:30 p.m. in Berkner Hall on Thursday, September 19. Hopper will outline some of the problems involved in processing and protecting information in computers and in reducing the cost of computer systems. From 3:00 p.m. until the lecture, coffee will be served.

Grace Hopper

In the 1950's, Hopper influenced the development of computer languages and the applied use of computers by government and industry. Hopper's no-nonsense Navy appearance is deceiving: she jokes how "the sight of a gray-haired little old lady in uniform causes people in airports, hotel lobbies and restaurants to confuse her with a security guard or another uniformed public servant."

Hopper received her Ph.D. in mathematics from Yale University in 1934. In 1943, she entered the United States Naval Reserve and was ordered to work on the Computation Project at Harvard University of the Bureau of Ordnance. There, she learned how to program the first large-scale digital computer, Mark I. In 1946, she joined the Harvard faculty as a research fellow at the Computation Laboratory, where she continued to work on the Mark II and Mark III computers for the Navy.

In 1949, she joined the Eckert-Mauchly Computer Corporation, which was then building the first commercial large-scale electronic computer, the UNIVAC I. She remained with the company as a computer programmer when it was bought by Remington Rand and later merged into the Sperry Corporation. In 1952, she published the first paper on compilers, which are programs to translate programming languages into machine languages. In 1957, Hopper and her staff developed the first English language data processing compiler, called B-0, which led to the development of programming languages.

Because of her interest in programming computers for non-scientific purposes, she was appointed advisor to the committee that invented COBOL in 1959. Hopper is thanked for significantly influencing COBOL's development as a business data-processing language that is derived from common business language and is given to a computer as a series of English statements. She retired from the UNIVAC Division of Sperry Rand as a staff scientist in 1971, while on military leave.

Hopper was active in the Naval Reserve until 1966, when she retired with the rank of Commander. She was asked to return to active duty in the Navy in 1967 for six months; six years later, she was promoted to the rank of Captain. In 1983, President Reagan presented her with a star signifying her promotion to the rank of Commodore. Still on active duty, she is presently serving with the Naval Data Automation Command.

A luncheon will be held in her honor at noon in the Brookhaven Center on the day of the lecture. To reserve a place, call the cafeteria, Ext. 3541.

Thomas (Continued)

advanced training in obstetrics.

"As a child, my motivation to study was primarily based on the need I felt to be able to support myself in life, and the only way I could see to do that was to try to do well at school." Although he went to a strictly segregated public high school in Atlanta, Thomas considers many of the teachers, and certainly the principal, to have been of high quality. As senior class president he was able to become involved in the politics of the school.

However, Thomas recalls, "The person who really influenced me most of all in terms of my getting into science was my freshman chemistry teacher at college. He was the first teacher I met who really had a love of scholarship and who was interested in the pursuit of knowledge for its own sake."

Thomas chose to study chemistry because he felt that he could be most certain of his ability to succeed in that field. His drive eventually got him into Boston University where he received his A.B. degree in chemistry in 1955. He then went on to complete a Ph.D. in chemistry, also at Boston University, focusing his dissertation on crystallography.

"The major reward of my work, as it should be for everyone, is self-expression," says Thomas. "The effort to do any kind of science, or any work at all for that matter, is an effort toward self-expression; to make a contribution to the world and to do it your way."

As such, he views the role of the scientist as integral to that of society at large. Thomas does not see the scientist as holding special powers of judgment pertaining to the development or application of new technologies to society. He considers it the expression of humankind to create a world in which what is acceptable and what is not acceptable must be thrashed out. "The point is that our reference is not absolute — it cannot be. We have only ourselves to refer to, and it is for that reason that we can make our world any way we like. It is not a question of whether it is right or wrong. The point is we can have it as we will — and we do."

— Alexander Laszlo

Harbottle (Cont'd)

chemistry in hand, Harbottle decided to stay at Caltech and joined a war research program to study explosives under the direction of Linus Pauling.

"The guy is totally amazing — one of the most extraordinary minds of this century," says Harbottle of Pauling. "Not only is he a phenomenal thinker, he is also a great person." Recalling the scientist whom he holds in highest esteem, Harbottle says, "Pauling left the mark of his personality on everyone who met him."

When he began graduate school at Caltech in 1946, Harbottle studied under R. W. Dodson, who had worked on the Manhattan Project at Los Alamos and who later served as Chairman of the BNL Chemistry Department. Harbottle focused his studies on nuclear chemistry, and, when Dodson moved to Columbia University in 1947, went with him. After having obtained his Ph.D. there, in 1949, Harbottle came to BNL and has worked here ever since.

Aside from Pauling, Harbottle asserts that his brother, who was a mechanical engineer, and his uncle were the greatest influences in his choice of career. He adds that Dodson played an instrumental role in cementing his focus during his graduate training. Although these people were crucial in channeling his abilities, Harbottle states, "I wanted to be a chemist from my very earliest memories."

He now leads what he calls "a laid-back family life." He says, "When I get away from my office I try to leave my work behind." Harbottle enjoys swimming and jogging and devotes himself to tending his garden when the opportunity presents itself. His study of ancient art objects makes him an enthusiast of art and music, and he can often be found wandering around an art gallery. He is also an amateur astronomer, was instrumental in helping found the BNL astronomy club, and is a trustee of the Vanderbilt Museum at Centerport on Long Island.

However, when it comes to his work, Harbottle asserts that he receives the greatest satisfaction from accomplishing something "that has professional recognition. I think this is the greatest reward an occupation can provide."

Harbottle is distinctly aware of the social responsibilities of research scientists. "They have a knowledge of what the scientific advances are that could conceivably have an impact on society," he asserts. "That knowledge has to be the foundation on which policy judgments are made. However," says Harbottle, "policy and the speculation of possible societal impacts are not the domain of the scientist. His domain is technical knowledge, and when he goes beyond that point to try to formulate policy he is overstepping his authority."

— Alexander Laszlo

Re: Office Automation

On September 18 and 19, NBI will host seminars on office automation at Berkner Hall in Room C. On both days there will be one seminar at 11 am. and another at 1 p.m. The presentations will include an overview and demonstration of NBI's new products.

In Memoriam

Robert J. Lorenz, Sr. Standards Inspector, Central Shops, died on September 6 at the age of 36 years. He started working at the Lab on May 9, 1977. Lorenz is survived by his wife, Loretta, and four sons, Neil, Chad, Benjamin J. and Nicholas. He was a resident of Mastic Beach.

IBEW Meeting

Local 2230, I.B.E.W. will hold its regular monthly meeting on September 23, at 6:00 p.m. in the Knights of Columbus Hall, Railroad Avenue, Patchogue. On the agenda will be regular business, committee reports and the president's report.

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Peter Horton

For five Brookhaven Semester students, the school year began at the Lab this fall, not at college. Until December 13, the students will study mathematics and computer science, taught by BNL staff, and do research in various scientific departments. The Semester program began in 1968 and has become a Brookhaven tradition. The students currently on site are, from left, Earl Watkins from Mississippi Valley State who works in Medical; Barbara Biggs, Jarvis Christian College, is doing research in the Department of Applied Science; Sandra Bonner, Mississippi Valley State, is in the Department of Nuclear Energy; Regina Willingham, Mississippi Valley State, is working in Medical; and Hugh Hamilton, York College, will spend the semester in Physics.

WIS Meeting

Barbara Douglas, an account executive at the Melville office of investment counselors Dean Witter Reynolds Inc., will speak at the next luncheon meeting of Brookhaven Women in Science. She will give her talk, entitled "You Don't Have to Earn More, Just Learn More," at noon on Wednesday, September 18, in Room A of Berkner Hall. All are welcome. Bring your lunch.

Arrivals & Departures

Arrivals

Karen Archer ..... Biology
Yen-Ching W. Chen ..... Physics
Joung Soo Kim ..... DAS
Daniel J. Monastero ..... NSLS
Jean Potvin ..... Physics

Departures

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

Meenakshi Balganesh ..... Biology
Tanjore S. Balganesh ..... Biology
Barbara J. Carreras ..... DAS
Freddie O. Lawson ..... S&EP
Danny J. Mizeski ..... Pl. Eng.
Yonathan Shapir ..... Physics

Cafeteria Menu

Week Ending September 20

Monday, September 16		
Chicken rice soup	(cup)	.65
	(bowl)	.85
Beef teriyaki & 1 veg.		2.40
Ham & noodle au gratin & 1 veg.		2.20
Hot Deli: Turkey à la maison	(roll)	2.35
Tuesday, September 17		
Cream of broccoli soup	(cup)	.65
	(bowl)	.85
Barbeque pork chop & 1 veg.		2.30
Taco platter		2.30
Hot Deli: Italian meatball hero		2.30
Wednesday, September 18		
Split pea soup	(cup)	.65
	(bowl)	.85
Beef roulade & 1 veg.		2.40
Eggplant Parmesan & 1 veg.		2.30
Hot Deli: Turkey breast	(bread)	2.15
	(roll)	2.35
Thursday, September 19		
Corn chowder	(cup)	.65
	(bowl)	.85
New England boiled dinner		2.45
Sweet n sour pork on rice		2.30
Hot Deli: Ham & cheddar melt	(bread)	2.15
	(roll)	2.35
Friday, September 20		
Seafood gumbo	(cup)	.65
	(bowl)	.85
Salisbury steak & 1 veg.		2.30
Seafood platter		2.40
Hot Deli: Taco burger	(bread)	2.15
	(roll)	2.35

Correction

In the story, last week, "Peyer's Patch Problem Solved with BLIP," Powell Richards did not "invent" technetium-99m as was indicated. He was involved in its later production and application. What made the use of this isotope possible was the development of the technetium-99m generator by Walter Tucker and Margaret Greene.

BERA News

Swim Lessons

Registrations are now being accepted at the pool during open hours for an 8-lesson swimming course that is scheduled to begin on Wednesday, September 25, at 5:15 p.m. The course is open to on-site employees and their adult dependents (spouses and children over 18). A fee of $20 (check payable to BERA) will be due at the time of registration.

The course will not be given if a minimum enrollment of 12 is not met.

Volleyball

Note the change in meeting location for volleyball — Berkner Hall auditorium, September 18, at noon. Captains should attend. Roster fees and rules are the main topics.

A volleyball clinic for referees and all interested volleyball players will be given in the gym, 5:30 p.m., Monday, September 23. Volleyball season starts for the A and B leagues on Monday, September 30, and for the C and Open leagues on Wednesday, October 2.

Microcomputer Club

This BERA club, specializing in the IBM PC, is now meeting each week on Thursdays from 12-1 p.m. in the Biology Building (463) small conference room. All are welcome. Contact Jim Hainfeld, Ext. 3372, for more information.

Aerobics

The Aerobic Dance Club announces the beginning of its fall program. Registration for stretch classes is Wednesday, September 18 in the North Room of the Brookhaven Center, and for aerobic dance, Thursday, September 19 in the Recreation Hall. A full class will follow each registration, from 5:15 to 6:15 p.m. Thereafter, stretch classes will meet on Wednesdays and aerobic dance on Tuesdays and Thursdays. The fee for each 10-week session (T,W, or Th) is $30 and is due at registration. For any further information, call Anita Cohen, Ext. 5054.

Touch Football

The BNL Touch Football League announces that games will begin in September and continue through the end of October. Games will be played at the BERA Recreation Park on Monday and Wednesday evenings at 5:20.

All teams interested may pick up entry blanks and game rules at the BERA Sales Office any weekday between 9 a.m. and 2 p.m. New teams are welcome. A player's pool will accommodate those individuals who would like to play but are not on an organized team's roster. Since no blocking and limited body contact are part of the game rules, players of all ages can take part with little fear of being injured.

Contact Ed Taylor, league chairman, on Ext. 7589 for further information.

Swim Club

The BNL Swim Club will begin meeting regularly for the indoor season on the first and third Thursdays of each month. The first meeting is on Thursday, September 19, at 5:15 p.m. at the BNL pool; at this time, we will discuss our fall program, including a swim-a-thon and a Lab swim meet, and hold a half mile to one mile practice. An optional time trial will be held after the workout.

The Swim Club is open to adult swimmers who can complete at least two laps of the pool without stopping using the crawl stroke. At our first meeting of each month, we review swimming strokes and skills; at the second meeting of each month, we hold a group workout. The Swim Club is a registered U.S. Masters club, which entitles members 20 years and older to represent the Lab at Masters competitions held on weekends all year throughout the metropolitan area. Members interested in competing on a BNL swim team practice together on the second and fourth Thursday of each month at 5:30 p.m. at the pool; the next team meeting is Thursday, September 26. For more information, contact Mark Catan, Ext. 5060, or Pat Thompson, Ext. 7635.

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, 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.

2316. SECRETARIAL POSITION - Requires an AAS degree in secretarial science or equivalent appropriate experience. Will be responsible for providing diverse secretarial support functions within the Division. Excellent clerical, organizational and interpersonal skills are essential. Personnel Division.

2317. FIREFIGHTER/EMT - Previous substantial firefighter experience is required. Completion of New York State EMT course and possession of training certificate is highly desirable, if not, completion of course within one year is required. Must be willing to work shifts at the completion of a thirteen-week training period. Safeguards and Emergency Services Division.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside applicants.

2318. P&GA SPECIALIST - Requires a minimum of two years' experience in the operation of the AM Varityper Comp/Edit 5810 phototypesetter and its associated equipment. Familiarity with scientific and tabular typesetting required. Must possess good "paste-up," proofreading and English skills. Photography and Graphic Arts Division.

2319. TECHNICAL POSITION - Requires an AAS degree in a scientific or technical field or equivalent capabilities and at least four years' experience in ultra high vacuum and a good knowledge of mass spectrometry. Must be able to take data independently during diverse vacuum and desorption experiments both in the laboratory and on the dedicated beam line.

2320. REFRIGERATION AND A/C ENGINEER - Requires substantial experience trouble-shooting, repairing, installing and operating commercial/industrial air-conditioning and refrigeration equipment including steam absorption, centrifugal and helical screw refrigeration machines. Successful completion of refrigeration and A/C apprenticeship program or related course work is highly desirable. Must be available to work shifts as required. Plant Engineering Division.

2321. SYSTEMS/DP ANALYST - Requires bachelor's degree in a pertinent discipline and two to four years' relevant experience in COBOL. Required experience includes programming on-line data base business systems. Knowledge of Hewlett Packard 3000 hardware is highly desirable. Management Information Systems Division.

2322. PATROL OFFICER POSITIONS - Requires AAS degree in criminal justice or equivalent experience performing diverse security duties for a large organization. Excellent communication skills are necessary as well as ability to work shifts. Will participate in comprehensive training program in order to become knowledgeable of site and police procedures. Safeguards and Emergency Services Division.

Autos & Auto Supplies

80 RABBIT - 4 dr., 4,600 mi., radio, good cond., $1,990. Ext. 3335 or 286-0269.

TIRES - (3) radials, GR75-15, $15 ea. 475-4596.

73 FORD TORINO - orig. owner. 924-3565.

78 SUZUKI GS750 - oil cooler, air horns, helmet, good running cond., $800. 475-2716.

79 OLDS - Delta 88, diesel, air, p/b, p/s, cruise, am/fm stereo, $2,900. Ray, 289-0883.

82 SUBARU GL - 4/wd wagon, a/c, am/fm cassette, michelins, roof rack, excel. cond., $5,800. Ext. 3506 or 281-2002.

83 TOYOTA COROLLA - wagon, 5 spd., am/fm stereo cassette, other extras, lo mi., mint. Ext. 2438 or 698-8958.

79 TRIUMPH - Bonneville, 5 spd., 94k mi., European style, $1,800. Mark, Ext. 2043 or 698-5748.

78 OLDS 88 - auto, a/c, p/s, p/b, new tires, battery, excel. cond., $2,350. Ext. 4169 or 981-5696.

81 CITATION - hatchback, 4 dr., new a/t, sunroof, new tires, 60k mi., orig. owner, $3,000. Tom, 281--5372.

72 HIGHLANDER - 14', travel trailer, toilet, heat, stove, 3 way refrig., sleeps six, $2,000. 928-7936.

79 FORD MUSTANG - hatchback, 4 spd., new brakes, no rust, runs well, asking $1,500. 744-2097.

69 MUSTANG - Grande, needs engine, rebuilt trans, new front end, many new parts, body mint, $1,200. 475-0002 after 5:30 p.m.

(Continued on page 4)

Autos & Auto Supplies (Cont'd)

80 SUZUKI PEI75 - dirt bike, excel. motor, new sidewinder, sprockets, chain, metzlers works, performance shocks, $650. 499-1867 after 5 p.m.

72 PINTO WAGON - runs well, some body rot, $200. 475-3598.

84 CAMARO - 6 cyl., 5 spd., red, stereo system, mags, spoiler, extras, $7,995. 751-6478.

77 VOLARE WAGON - 4 spd., rebuilt trans., good radials, new clutch, 130k mi., $350 or best offer. Ext. 3785 or 473-7226.

TIRES - (3), A78-13, snows; (1) A78-14 w/rim, good cond., make offer. Janet, Ext. 2345 or 929-8152.

78 CHEVY MONTE CARLO - p/s, p/b, p/w, a/c, runs well, needs minor cosmetics, $2,150. 473-1454 or 744-3284 eves.

PONTIAC RIMS - (2), new, l4x6, $30; (1) l4x5, $15; antenna wire, 300 ohm, new, $5; tires, (1) L78-15; (1) J78-15, (2) G78-14, snow; space saver spare, new, BF Goodrich, G78-14, $40. Tony, Ext. 7772.

77 TOYOTA CELICA - good running cond., $1,350. Ron, Ext. 4082 or 289-1003.

80 VW RABBIT - 4 dr., 4 spd., diesel, 80k mi., excel. cond. Scott, 661-3777 or 399-1157 after 5 p.m.

76 MERCURY MONARCH - 4 dr., p/s, p/b, p/w, eng., muff., tires & batt. good, $800. 499-5519 eves.

82 PLYMOUTH RELIANT - 4 cyl., 4 spd., 4 dr., excel. cond., white/red int. 325-1322 after 5 p.m.

69 KARMAN GHIA - new eng., rebuilt trans., garaged, best offer over $1,500. Ext. 4785 or 475-1844.

76 AMC MATADOR - 2 dr., very clean, $850. 924-8213 after 5 p.m.

72 VOLVO WAGON - excel. running cond., am/fm tape, needs some body work, $950 or best offer. Ken, Ext. 2008 or 928-5875 after 6 p.m.

73 VW SQUAREBACK - 107k mi., 31 mpg, good cond., good tires, brakes, exhaust, reliable. Wolfgang, Ext. 5295/7591 or 821-3519.

81 PLYMOUTH RELIANT K - a/t, p/s, clean, 47k; tires, LR78-15 on GM rim, $28, A78-13 on Ford rim, $25. 472-4228.

70 CADILLAC - almost new tires, new starter, motor, good body, runs well, $350. 589-6803 or 589-3072.

WHEELS - (2), 12" for Honda auto. Ext. 3075.

78 CHEVETTE - 2 dr., 4 spd., 30 mpg, excel. cond. Ext. 2610 or 929-3924.

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

76 FORD PINTO - new batt., muffler, 4 cyl., 2 dr., 24 mpg, excel. running cond., $975. Lenny, Ext. 2091 or 422-2416.

79 PONTIAC SUNBIRD - a/t, a/c, stereo, low mi., $2,350. Ext. 4175 or 298-4089.

77 DATSUN 200SX - 5 spd., 61k mi., new tires, brakes & clutch, am/fm stereo, $1,150. 744-5843.

82 TOYOTA COROLLA SR5 - hardtop, 47k mi., excel. cond., $5,250. 751-6048.

80 OLDS STARFIRE - 4 cyl., hatchback, excel. cond., white/saddle, $2,800; '82 Toyota 4x4 cap, extras, grey/black, mint cond., $7,600. Mike, 289-9238.

TRAILER HITCH - Class I, $35. Frank, Ext. 2314 or 567-5131.

75 FORD MUSTANG II - 2 dr. sedan, 4 spd., orig. owner, excel. cond. Ext. 2438 or 689-8958.

75 FORD LTD - 2 dr., good cond., $895. 475-4394.

74 PINTO WAGON - 56k mi., inspected 7/85, incl. (4) spare tires, (2) snows, $700. Raul, Ext. 4331 or 924-1421.

TRUCK MIRRORS - stainless steel, $25 pair; bumper guards, chrome, GM, $20; 8' truck cap with inserts. 269-9510 after 7 p.m.

70 PLYMOUTH DUSTER - '73 6 cyl. eng., new tires, paint, etc., completely restored, mint cond., $1,700. 698-1885.

MOPED - good cond., $350. 475-0918.

CAP - custom, fiberglass, for Toyota short bed, cream, excel., orig. cost $650, sell for $375. Ext. 4411 or 929-8287.

JACK STANDS - $5. Frank, 981-2529.

79 CHEVY MALIBU - 4 dr., a/t, p/s, a/c, high mi., excel. cond., $1,750. Ren, Ext. 3178.

82 MUSTANG GL - 5.0L, 4 spd., am/fm, p/s, p/b, a/c, 56k mi., $5,900. John, Ext. 3397.

83 RM 80 - good cond., water cooled, asking $550; '76 Shasta trailer, 21', sleeps 7, self-contained, awning good cond., $4,450. 585-2084.

70 CHEVY MALIBU - 8 cyl., p/s, p.b, orig. owner, new tires, good body, $800. Larry, Ext. 4295.

PONTIAC J2000 - wagon, 28 mpg, $5,250; cartop carrier, $65. Ext. 4395.

73 CHEVY IMPALA - a/c, snows on rims, $350. Jim, Ext. 3372.

71 VW FASTBACK - new brakes, tires, very good cond., $650. Lou, Ext. 3499.

70 DODGE VAN - 318 a/t, $600; tube grill, $10; chrome roof rack, $15. Ray, Ext. 3536 or 289-7615.

76 CHEVY MALIBU - wagon, 8 seater, small V8, p/s, new p/b, starter, excel. eng., dents, very reliable, $700 or best offer. Ext. 2830 or 543-0487.

70 NOVA - a/t, p/s, reliable eng. & trans., new suspension & exhaust system, $500. Walt, Ext. 2907 or 698-0576.

77 PLYMOUTH VOLARE - new trans., new brakes, good running cond., $700; '77 Yamaha GTMXC80, good cond. with helmet, $350. 878-0480.

83 HONDA CIVIC 1500S - sunroof, tinted glass, black, excel. cond., $5,450. 744-7073.

80 CAMARO - p/s, p/b, a/t, a/c, 46k mi., excel. cond., $4,700. Ext. 3908.

80 OLDS DELTA 88 - fully loaded, 4 new Michelin tires, am/fm cassette, needs gasoline conversion, best offer over $2,000. Alyce, Ext. 5203 or 289-3152 after 6 p.m.

70 DODGE DART - slant 6, low mi., reliable transp. John, Ext. 3651 or 744-6287 eves.

Boats & Marine Supplies

25' CHRISCRAFT - 10' beam, new engine, water jackets, many new extras. 234-7225.

RAFT - 4 person, new, orig. cost $120, sell for $60. 878-2421 after 5 p.m.

SMALL BOAT ANCHOR - Ext. 4846.

19' LIGHTNING SAILBOAT - solid mahogany, 5 sails, racing rigging trailer, extras, excel. cond., $2,000. 201-863-6842.

MERCURY OUTBOARD - '71, 80 HP, plus controls, good cond., $300. 473-4228.

SUNFISH - good cond., fiberglass, $150; wood sailfish, $75. Bob, Ext. 3575 or 689-9089.

19' RENKIN - '78 Bowrider, 120 HP Volvo, I/O, low hrs., new canvas, excel. cond., $3,995. Ron Manning, Ext. 3887 or 286-0353.

15' SAILBOAT - 420, racing, trailer, $600. Jim, Ext. 3372.

17' ISLAND SAILBOAT - centerboard, daysailor, roller furling jib, boom tent, coast guard equip., $1,995. 472-9034.

Miscellaneous

MIRANDA - 1961, SLR w/fl.9 lens, shutter not operating, best offer; tuner, tube, $5; turntable, $110. Ext. 2971.

STEREO CASSETTE DECK - Sansui, built-in speakers, 4 band tuner, full logic control, $150. Rajiv, Ext. 5161 or 924-1460 eves.

FURNITURE - (2) couches, (2) chairs, $200; dining table and chairs, $50. Ignatius, Ext. 4517.

SPORTS JACKET - size 40R, excel., rarely worn, Johnny Carson brand, gray, $25. Mike, Ext. 7941.

ROCKWELL COLLECTOR PLATES - set of 12, rediscovering women, value $425, asking $340. Al, Ext. 4615.

LAWN MOWER - self-propelled, battery start, used one season. 878-4089 after 6 p.m.

BUNK BEDS - excel. cond., $125; (2) 20" bikes, $25 ea.; bed frames, $5-$10. Ext. 2971.

CHARADE - game for adults, cost $18.95, sell for $12. 727-3608 after 5 p.m.

WOMAN'S BIKE - Huffy, 10 spd., like new, blue, $50. Pete, Ext. 3715 or Ellen, 399-2813 after 6 p.m.

DOUBLE BED - spring mattress, clean; triple dresser, 72" long, all for $125. 281-7844.

CHILDREN'S TOY CHEST - fancy designs, good cond., $10 firm. 751-4822.

WOOD STOVE - all nighter, large size, weight 550 lbs., $250. Jack, Ext. 4274.

COMPUTER - Radio Shack model TRS-80-MC-10, microcolor, like new, $45, bassinet, $10. Tony, Ext. 7772.

DOWN COMFORTERS - (2), twin size, plus 4 pillows, $200; Hoover vacuum cleaner, upright, $60. Paul, Ext. 4106 or 689-8675.

SWAG LIGHT FIXTURE - for kitchen, Tiffany type, light green and white, $25; wagon wheel 5 lantern chandelier, $45. Rosemary, 589-2470.

BASKETBALL RIM - $5; children's adjustable metal stilts, $20; Reese single lever equalizer hitch, $50. Ext. 4846 or 363-6940 after 5 p.m.

PORTABLE BAR - round; garden hose, various lengths; elec. knife, new. Ext. 3482.

BROWNIE OUTFIT - complete, size 8, excel. cond., incl. extra slacks and polo sweater, $80 value, sell for $25. 751-2867.

HAM TOWER - 80', Triex tele, crank u.p., new cond. Ron, Ext. 4082 or 289-1003.

VACUUMS - (2) Kirby; Sears elec. dryer; GE washer, all work but need some repair, $25 ea. 281-0268 eves.

TRIPLE DRESSER - 72" long, $50; child's high chair, chrome, $5. 281-7844.

BUMPER POOL TABLE - slate, commer. type, $60. 751-1562.

GE REFRIGERATOR - 13.6 cu. ft., top freezer, almond, good cond., $85. 722-4489.

COAL STOVE - Haas & Sohn, never used, still in crate. 878-8302 after 5 p.m.

GAS STOVE - and wall oven, counter top, Caloric, chrome, $100; baby cradle, $25; round duncan phy. table, $25. Jack, Ext. 2021.

WATER PUMP - shallow well, piston type, $10. Mike, Ext. 2705.

POOL FILTER - Perflex model EC-60, Sta-rite 1 HP pump, $125. John, Ext. 4255 or 929-4450.

PUPPIES - English bull terrier, male/female, AKC, shots. 369-1086.

WALLACE FLATWARE - 1835 silverplate, 60 pieces, ser. for 12, Pacific cloth lined box, excel., $140. Corliss, Ext. 4438 or 472-1585.

GE COUNTERTOP RANGE - cabinet doors for Levitt house or useful for the wood. Ext. 4192.

BEDROOM FURNITURE - triple dresser, mirror, twin headboard, night table, $95. 751-1884.

COLONIAL LIVING ROOM SET - sofa, love seat, chair, ottoman, end table, lamp, shelving, color TV, $750. 736-3344 10 a.m.-4 p.m.

AUTO TELECONVERTER - with carrying case, for standard Pentax type thread, new, $8. Susan, Ext. 4267.

RADIAL SAW COMBINATION - 10", brand new in box, with leg set, reasonable offer. 924-6582.

FIELDCREST BED LINENS - complete set for 2 twin beds, no-iron percale, brand new, pastel yellow trim, $30. Les, Ext. 2920.

BIKE - for beginner, $35; organ, excel. cond., $1,085. Ext. 4395.

PUMP - and glass lined tank, 2 yrs. old, 3/4 HP, for deep well, price neg. Ext. 5139.

BIKES - (1) 16"; (1) 22"; (2) tricycles; (2) bike totcarriers. Ray, Ext. 4479.

GE FREEZER - white, 14.8 cu. ft., good cond., $50. 728-6353 after 6 p.m.

DINING ROOM TABLE - plus 4 chairs & buffet, honey maple, $300; Beautyrest full mattress & box spring, $60; dehumidifier, $35. Ann, 286-2280.

SPRAYER - galvanized steel, compressed-air type, 3 gal. capacity, like new, $10. 751-1884.

ACCORDION - great cond., $100. 475-4199.

STORM/SCREEN DOOR - wooden extension ladders; good cond., make offer. Kanuga, 475-1254.

SPLIT FIREWOOD - seasoned oak, 4'x16'x18-22" pieces, $110, delivered. 732-2849.

OAK DESK - $200; oak table, $50; chest of drawers, $20; toaster oven, $10, cabin bed, $150. 751-6048.

VIOLIN - ideal for student, $190. Jeff, 654-1185 eves.

HOME FURNISHINGS - sofa; washer & dryer; stereo, etc. 289-1705.

WING CHAIR - flowered print, $50. Louisa, Ext. 4207.

ANTIQUE PHOTO EQUIPMENT - enlarger, strip projector, trays, dryer, much more. Mickey, Ext. 3173.

SHELLS - coral rings, necklaces, etc. Whitey, Ext. 2913.

PUMP JACKS - (4), with roof braces, used once, light rust, all for $100. Ext. 2705.

WOOD BURNING STOVE - Jotul Combi fire 4, $200; chimney & pipe avail. 744-4611 after 6 p.m.

LACROSSE STICKS - $10 ea.; lacrosse helmet, $15; football helmet, $15. Tony, Ext. 2462.

WATER PUMP - shallow well, Guilds, 1 HP motor, new, $100. Walter, Ext. 2705 or 924-6172 after 5:30 p.m.

TRUMPET - and case, for beginner, $75. Jim, Ext. 3372.

CLOTHES CLOSET - metal, $15; dinette set, sturdy formica, $30; metal cabinet, heavy shelves, 64hx24wx24d, $10. 878-6637.

WINDOW SHADES - white vinyl, various widths, some like new, $3 ea.; molding, 2-5/8", Sprungcrown, painted white, 190 ft., 25¢ ft. or $40 for all. Ext. 2452.

SKI POLES - 47", $10; Crossman CO2 rifle, $15; 2 person inflatable boat, oars, $20. Frank, 281-2529.

ROLL-AWAY BED - with twin mattress, $20; fill size mattress & boxspring, any offer. Wick, 924-0582.

BUNDY CLARINET - with case, good cond., $125. Frank, Ext. 2314 or 567-5131.

BOX SPRINGS - (2) twin size, like new, $40 ea.; hair dryer, salon style, like new, $20. Ext. 3370.

SNOW PLOW - 7 ft., new, with truck mount frame but without lifting mechanism, $75. Tom, Ext. 4084 or 878-1060.

Yard Sales

CENTER MORICHES - corner of R.R. Ave. & Main St., Sept. 14, 10 a.m.-4 p.m., raindate Sept. 21, also bake sale. 878-2239.

SOUND BEACH - Dering Rd., 3 families, Sept. 14-15, photo equip., ham radios, amps, furniture, toys, household, rugs, old records. Ext. 3173.

SHIRLEY - 81 Lexington Rd., Sept. 14-15, 10 a.m.-4 p.m., household & garage items, come & browse.

Lost & Found

FOUND - prescription eyeglasses at tennis courts, refer to lost & found, Personnel Division.

LOST - wallet at Center, Sept. 6, reward. Joseph DeVoe, Ext. 4639.

FOUND - at tennis court, (1) silver hoop earring. Rita, Ext. 3320.

Free

KITTENS - adorable, black & white, big blue eyes, 6 wks. old. Ext. 2888 or 286-0422 eves.

CYMBIDIUM ORCHID PLANTS - (2). 473-3792 after 6 p.m.

MALE CAT - 3 mos. old, very lovable, gray & black. Ext. 7144.

FEMALE KITTEN - black/gray tiger, green eyes, 2 mos. old, very playful. Claire, 281-8306 eves.

Car Pools

MEDFORD - student needs ride to Budget Rent-a-Car, 5 p.m. every Friday. G. Price, Ext. 3336.

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

HAMPTON BAYS - waterfront house, for winter rental, Oct. 85-Apr. 20, 1986, no pets, couple preferred, $300 mo. 728-2104 eves.

HAMPTON BAYS - large 1 bdrm. apt., suitable for couple, no pets, $400 mo. plus util. 728-2104 eves.

WADING RIVER - 2 story, 3 bdrm. house, water view, fully furnished, lease Nov.-May, non-smokers only, $600 mo. plus util. Barclay, Ext. 4587 or 929-8443.

LAKE PANAMOKA - 1 bdrm. apt., clean, priv. ent., lake privileges, single preferred. 929-4877.

YAPHANK - 1 bdrm., 1/2 bath, in condo., share shower, kitchen, appl., a/c, 2 mi. from Lab, tennis, pool, 1 person, non-smoker, no pets. Ext. 2485 or 924-0123.

HILTON HEAD, SC - 2 bdrm. condo., tennis, golf, pool, beach, $400 week, after Sept. 15, $325 week. 585-9149 after 5 p.m.

RIDGE - 4 bdrm. house, excel. cond., carpets, fenced, all appl., avail. immed., $750 plus util. 744-4611 after 6 p.m.

CORAM - 3 rm. apt., kitchen, bath, a/c, l/r with f/p, private entrance, quiet non-smoking single preferred, $350 mo. incl. util. 928-8071.

PORT JEFFERSON VILLAGE - 3 bdrms., 2 baths, f/r, f/p, all appl., avail. Oct. 1 for 1 yr. 331-4768.

SHAWNEE-ON-THE-DELWARE - 1 week interval in mid-October, $200. John or Kristin, 744-6287 eves.

PORT JEFFERSON - beautiful living quarters overlooking Long Island Sound, possible use of car in exchange for landscaping help & possible nursing, hours are neg., couple preferred. 473-3761.

SELDEN - studio basement apt., priv. ent., eik, l/r-b/r combination, near transp. & stores, mature adult, no pets, $450 incl. all. 698-8514 after 5 p.m.

MASTIC BEACH - spacious 1 bdrm. apt. in quiet neighborhood, 15 min. from Lab, large kitchen with dishwasher, sunny l/r, wood floors, lots of closets, priv. ent., $500 incl. heat. Jim, 281-2849.

MASTIC - 3 bdrm. apt., l/r, d/r, eik, full bath, $625 mo. plus util.; also 2 bdrm. apt., priv. ent., eik, yard, $475 mo. plus util., avail. Oct. 1. Jim, 281-2849.

For Sale

WARRENSBURG - 10 min. from Lake George, 2 plots, 4.5 acres ea., on road across from stream, $7,000 ea. or both for $12,000. 744-2715.

ROCKY POINT - custom Tides country cape, 4 bdrms., l/r with f/p, large eik, oak floors, natural woodwork, full basement, 1 car garage, treed .4 acre, covered patio, beach rights, $132,500. Ext. 7644 or 744-2733.

SHOREHAM - 1 acre, 3 bdrm. ranch, l/r, d/r, eik, playroom, utility room, patio, heavily wooded cul-de-sac location, SWR school district, taxes $1,300. Ext. 7786 or 744-7796.

ROCKY POINT - 4 bdrm. comtemp. ranch, gourmet kitchen, central a/c, fenced yard, walk to private beach, $129,900. 821-1039.

Wanted

HOUSE TO SIT - while you are away on vacation or business. Ext. 4072.

HOUSE TO RENT - Bellport Vill. or Brookhaven Hamlet. Anne, Ext. 5055 or 286-0919.

CHILD CARE - for 9 mo. old, starting Sept., near or on site preferred. Ext. 2259 or 924-7833 eves.

PERSONS - interested in 1 day shopping spree to Reading, PA, Sat. Oct. 26. Bea, Ext. 3642.

ROOMMATE - share house in Mastic Beach, 2 bdrms., Sept-June 1986, $250 mo. plus util. Ken, 261-1427 eves.

CRIB - playpen, high chair, etc. Ext. 3606.

SUBMERSIBLE PUMP - small, 110 V. Ken, Ext. 3263.

RECEIVER - all-band communication that runs on 12 V, broadcast to 30 mhz. Ext. 4168.

GRAPES - to make wine. Bill, Ext. 7997 or Richard, 821-9296 after 5 p.m.

HOUSEMATE - to share house in Sound Beach, 3 bdrms., 2 baths, washer & dryer, f/p, beach rights, on 1.2 acres, $425 mo. plus util. Kevin, Ext. 4409 or 744-6059.

POOL COVER - and pump, Little Giant or equivalent, in working cond. 744-4611 after 6 p.m.

HOUSE TO SIT - while you are away on vacation or business. Ext. 3671 or 736-2131 eves.

WOMAN VOLLEYBALL PLAYER - for "A" league team, Monday nights, experience a must. Ext. 4605.

In Appreciation

My family and I wish to thank the many people who expressed their condolences at the death of my father, George Stenby Sr. Your sympathy has been comforting and we appreciate all that you have done. George Stenby Jr.

Classified Ad Policy

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

1. The Brookhaven Bulletin's classified section may be used only by active and retired Laboratory employees.
2. All items for sale or rent must be the advertiser's property.
3. Ads for material acquired for resale in association with a full or part-time business cannot be accepted.
4. Ads for the sale or trade of firearms will not be accepted.
5. Ads not carried because of space restrictions will be held for publication in the next issue.
6. Ads are run only once and must be resubmitted if they are to be repeated. One ad per person per week.
7. **Property for sale or rent cannot be accepted on this form. Special Real Estate Ad Forms are available at the office of the Brookhaven Bulletin, Building 134.**

☐ For Sale: Autos & Auto Supplies ☐ For Sale: Boats & Marine Supplies ☐ For Sale: Miscellaneous ☐ Car Pools ☐ Lost & Found ☐ Wanted ☐ Free ☐ _____

Please print your ad below in 15 words or less using one word per block. Include name and phone number to call.

Note: The following must be completed for your ad to appear.

NAME (Please Print) .....

Employee's Signature ..... Life No. ..... Ext. .....

Send to Brookhaven Bulletin, Building 134 (Ext. 2345).