BROOKHAVEN BULLETIN
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BROOKHAVEN NATIONAL LABORATORY

Birding at Brookhaven

Gil Raynor

Roger Stoutenburgh

He began at 6 o'clock in the morning on May 24, 1977. The temperature was 64°F, the wind blew gently out of the southwest at two miles per hour and cirrus clouds were scattered over the hazy sky.

Two hours later, when he had completed this first survey of the Breeding Bird Census plot located in the northeastern corner of the Laboratory property, Gil Raynor headed back to his office in Bldg. 51, to begin the regular workday with his fellow meteorologists.

Raynor's morning visit to the backwoods of BNL was only the first of dozens undertaken in the last six years by volunteer birdwatchers participating in a Breeding Bird Census at both BNL and Westhampton. Raynor, who supervises the census, will work both plots as the study continues in 1983. Other employees working the Brookhaven plot are James Clinton (DNE), Cleveland Dodge (DEE) and Raymond Kutzman (Medical).

The census is conducted under the auspices of DOE's National Environmental Research Park Program, which makes tracts of land at national laboratories available for ecological research. Through DEE's Terrestrial and Aquatic Ecology Division, headed by George Hendrey, BNL provides offices, security to keep the site undisturbed for long-term studies and annual reports of census results. The study needs no additional funding, as the volunteers visit the plots on their own time.

Taking The Census

The early hours of daylight are the most productive, for that's when the male birds sing their best. A singing male indicates that a bird has established a territory. Each of the birders is proficient at identifying a bird's species by its song as well as its markings. From the number of territorial males on the plot, the census-takers can determine the total number of territories.

The birders will visit each plot a total of about 12 times, most frequently in June, at the peak of the breeding season. Walking slowly along each staked-out plot grid line, the observers will use codes to record on a map the location of each singing bird and its movements. At the end of the season, the data from each 2-3 hour visit will be combined into one map for each species, and the number of territories will be determined. The results will be compiled in a BNL report and published in the journal, American Birds, which prints the results of censuses from throughout North America every year.

Breeding bird censuses of this kind have been taken for about 30 years,

(Continued on page 2)

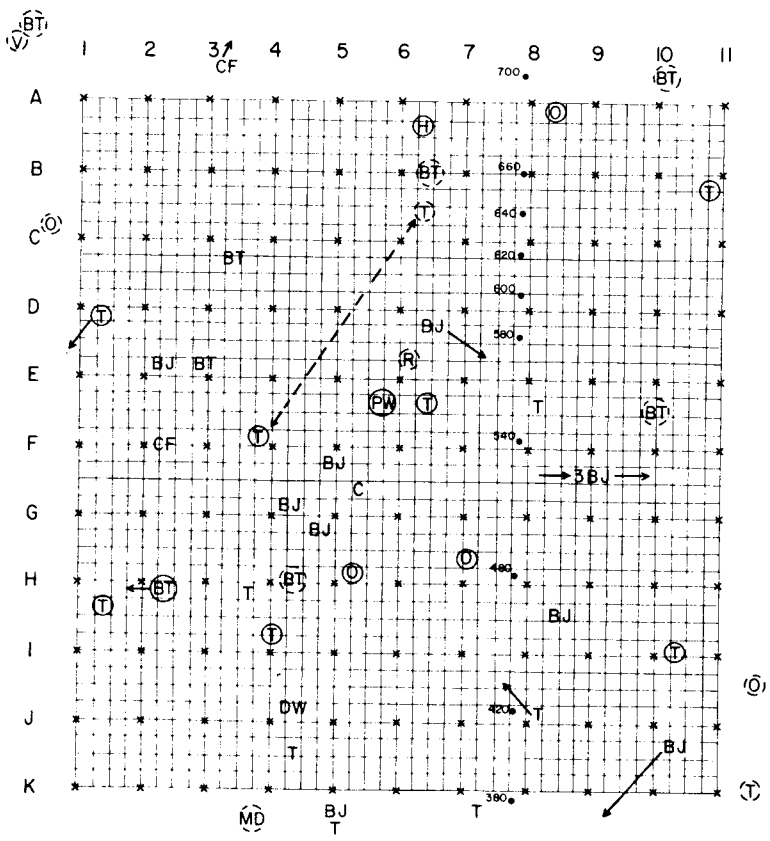
A Bird Map for New York

In addition to his voluntary supervision of the BNL Breeding Bird Census, Gil Raynor is Regional Coordinator for the New York State Breeding Bird Atlas Project sponsored primarily by the Federation of N.Y. State Bird Clubs and N.Y. State Department of Environmental Conservation.

The aim of this five-year study is to map the distribution of all breeding species (more than 200) nesting in New York State. Ultimately, all the breeding species will be located on computer-produced maps for a complete picture of this point in time. "Our long-range plan is to take another look every 20 years," said Raynor, who explained that this kind of survey, pioneered in Great Britain about 15 years ago, is a source of information for land use planners and conservationists, as well as birdwatchers.

For reporting purposes, the state has been divided into more than 5000 blocks, each 5×5 kilometers (about nine square miles). The blocks are spread among ten regions, each with a coordinator who assigns birders, oversees their efforts, collects and forwards their data. Raynor coordinates the marine region, which includes all of Long Island, New York City and southern Westchester — approximately 280 blocks in all. The region is staffed by about 300 volunteers, about a dozen of whom work at BNL. One of those is Raynor, who surveys four blocks in Manorville and four at Montauk.

Establishing that a bird is breeding requires that the observer assign it a level of evidence, ranging from "possible" (bird was seen in block) to "probable" (male bird was singing in block) to "confirmed" (nest with eggs or nestlings was found or parent was seen with young). "We've found at least three species that never bred in the region before," said Raynor. "Of course, they might have been found anyway, but we were certainly helped by this intensive effort." — A.C.



plot for the BNL Breeding Bird Census is a 1000 foot square, centered in a larger tract of woods in the northeastern corner of the Lab property, and marked by numbered/lettered stakes (x) at 100-foot intervals in each direction. On each census trip, the observer completes a map like this one, prepared by Gil Raynor, June 1, 1979. The letter symbols indicate: BJ, blue jay; BT, brown thrasher; C, black-capped chickadee; CF, crested flycatcher; DW, downy woodpecker; H, hermit thrush; MD, mourning dove; O, ovenbird; PW, pine warbler; R, robin; T, rufous-sided towhee; V, red-eyed vireo. All singing males located precisely are indicated by a closed circle; all singing males located only approximately are indicated by a broken circle. Solid arrows show the direction in which birds moved and the approximate distance. Such observations help define territorial boundaries, since territorial males do not normally leave their areas. Dashed double-ended arrows point to two birds of the same species seen or heard simultaneously — clear proof of a territorial boundary between them. At the end of the census period, data from all trip maps are combined to produce one map for each species on which territorial boundaries are clearly marked.

200th bnl Lecture

Proton Decay

In the 200th Brookhaven Lecture, AUI Distinguished Scientist Maurice Goldhaber will talk about one of his long-standing research interests, "The Question of Proton Stability." The lecture will be presented at 4:30 p.m. on Wednesday, May 18 in Berkner Hall.

The Brookhaven Lecture series was begun in 1960 under the chairmanship of Gertrude Scharff-Goldhaber in order "to provide an intellectual meeting ground for all scientists of the Laboratory." Maurice Goldhaber was one of the early speakers, presenting the 11th Lecture on November 15, 1961 on "Fundamental Particles of Physics." In the 200th lecture he will recount his latest ventures in this field.

For a long time it was believed that the proton was absolutely stable, and nobody tried to prove it one way or the other. But in 1954, Maurice Goldhaber, with Frederick Reines and Clyde Cowan, then at Los Alamos Scientific Laboratory, started a quantitative empirical test of the stability of the proton. It was important because evidence of proton decay meant that the world ultimately would disintegrate. Their test showed that the lifetime of a proton must be greater than about 10^{22} years.

In recent years, theoretical predictions that proton decay was there if one really looked for it (Grand Unified Theory), led to a rush of new experiments. Chief among these is the IMB Collaboration (for University of California at Irvine, University of Michigan and Brookhaven Lab), of which Goldhaber is a member.

Using a Cerenkov detector of 8000 tons of water and thousands of photomultiplier tubes in a salt mine near Cleveland, Ohio, the experimenters are searching for proton decay. In January 1983, they reported results indicating that the lifetime of the proton is greater than 6.5×10^{31} years, considerably longer than the simplest theory had predicted. The experiment is continuing but, so far, the answer to the question of proton decay is negative.

In his lecture, Goldhaber will talk about this experiment in detail — its history, its operation and its ramifications.

Maurice Goldhaber

Maurice Goldhaber is well known to Brookhaven audiences and to the international scientific community. He was Director of the Laboratory from 1961 to 1973 and was then appointed AUI Distinguished Scientist. Throughout his 33 years at the Laboratory, he has specialized in the study of nuclear physics and fundamental particles. Some of the significant researches in which he participated are the discovery of the nuclear photo-electric effect, the role of spin in nuclear reactions, the reactions of slow neutrons with light nuclei, the first observations of nuclear disintegrations in photographic emulsions, and the observation that beryllium has a sufficiently small capture cross section for slow neutrons to be a useful neutron moderator in reactors.

Goldhaber's principal honors include the Tom W. Bonner Prize in Nuclear Physics (1971), a U.S. Atomic Energy Commission Citation (1973), a Ph.D. (honoris causa) from Tel-Aviv University (1974), the J. Robert Oppenheimer Memorial Prize (1982), and a Doctor Honoris Causa from the University of Louvain-La-Neuve (1982). He served as President of the American Physical Society in 1982.

A coffee reception will be held at 4 p.m. preceding the lecture and a buffet supper at 6:30 p.m., approximately an hour after the lecture. The price of dinner is $7.50 and reservations should be made by calling Ext. 3541 before 5 p.m. that day.

Women in Science, Women in Action

Brookhaven Women In Science (WIS) was born in 1979, as a speakers bureau — the brainchild of Harriet Fadem, librarian for DNE and the Accelerator Department. Fadem felt that BNL's women scientists could provide role models to encourage high school girls to go into science.

When the women Fadem recruited met to discuss the speaking program, they found another benefit. "It was the first time a lot of us had the opportunity to talk to other women scientists," said Vicki McLane, a physicist in DNE. "We found we had so much in common, we decided to form a group."

That group now has almost 90 members. McLane and Eva Bozoki (physicist, NSLS) share WIS' leadership duties as Group Coordinators. Recently incorporated, WIS is now applying for a tax exemption, in order to sponsor a scholarship for a BNL woman returning to school full-time to study science. Such a scholarship is one way in which WIS can promote the aims cited in its charter: to provide a forum for the exchange of professional and technical information, promote the advancement of women in the professions, provide mutual support and raise the consciousness of individuals to the problems of career-oriented women.

To meet those aims, WIS has several programs. Its seminar-lecture series primarily features women scientists. Recent WIS lecturers have included an astrophysicist, an expert on computer security and an occupational safety and health materials scientist. The monthly WIS meetings, which are held alternately at noon and after work, also feature quest lecturers. An insurance specialist and a gerontologist have been among this year's speakers.

The business at those meetings often centers on action. WIS has been instrumental in initiating a daycare center sponsored by Lab management (Kids-R-Us), an on-site credit union and coordination of benefits for BNL husband/wife teams enrolled as individuals in the Lab's medical plan. McLane said the group has been successful because, previously, the Lab did not have an organized group to speak for women. "They've been very responsive to all of WIS' suggestions," she said.

Another activity took place last Saturday, when WIS sponsored its second "Careers for Women in Science." Almost 150 female high school students, their teachers and counselors came to BNL for a day aimed at increasing their awareness of career options and employment trends in scientific fields.

McLane knows that this is important. "Twenty years ago, when I was a high school student aspiring to a career in science, my guidance counselor asked me why I needed to study physics," she said. "I thought by now things had changed, but it doesn't seem that way. The only women who go into science are the really motivated ones. It's just too easy to be discouraged.

"However, things are changing. Our career days are drawing a lot of people. Over 50% of today's work force is women. I see many more women these days when I go to professional meetings; and some other fields, like chemistry, have increased their female numbers dramatically."

WIS also continues to send speakers to local schools and organizations to discuss careers for women in science, math, engineering and related activities. This program is now called One Mind, inspired by a surprisingly contemporary quote from Plato: "Nothing can be more absurd than the practice which prevails in our country of men and women not following the same pursuits with all their strength and with one mind, for thus the state, instead of being whole is reduced to half."

— Anita Cohen

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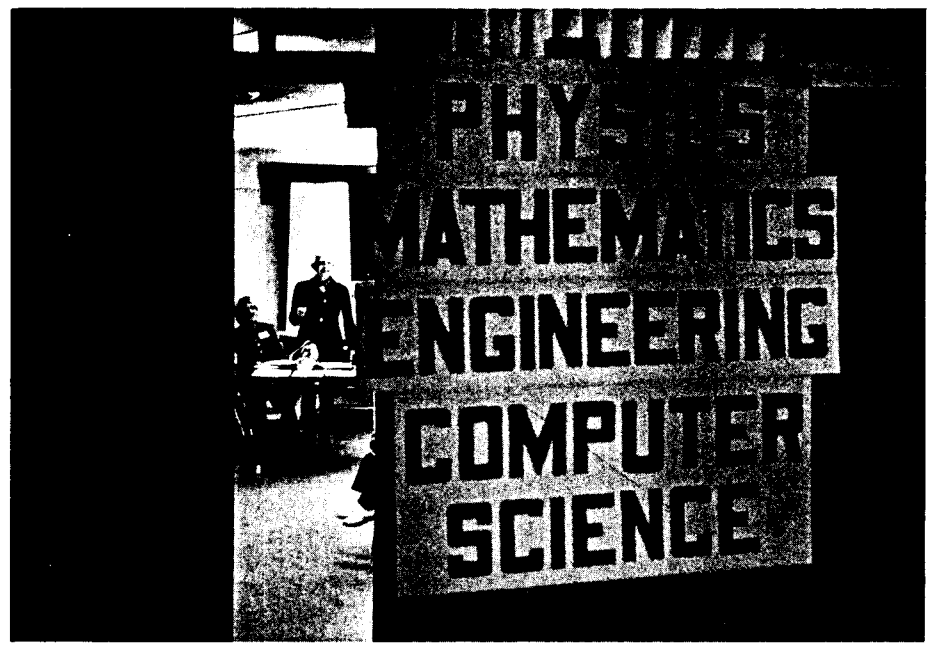
WIS Meeting

Anne Sayre, author of "Rosalind Franklin and DNA," will speak on "Ethics in Scientific Collaboration" at the next dinner meeting of Women in Science on Tuesday, May 10, at 5 p.m., Room A, Berkner Hall.

Sayre graduated from Radcliffe in 1943, Phi Beta Kappa, with honors in political history. She has worked in advertising and done editorial work for various magazines. In addition to four novels, Sayre has written several short stories, which have received honors ranging from an O'Henry Award to inclusion in a collection of "Best American Short Stories." She graduated from New York University Law School in 1978 and currently is writing a book on some aspects of criminal law.

A buffet dinner will be served prior to the lecture. Reservations are requested. Send a check for $7.50, payable to Brookhaven Women In Science, to Ellen Gannon, Bldg. 801, Ext. 4513, before May 10.



Alex Reben

Gertrude Scharff-Goldhaber, Physics (standing) and Eva Emmerich, CBA (seated), were participants in a panel discussion, moderated by Gail Schuman, at the WIS-sponsored "Careers for Women in Science." The day's activities were organized by a committee consisting of Betty Heldman, Stephanie Lamontagne, Vicki McLane, Janet Tempel and Gail Williams.

Roger Stoutenburgh

The semi-annual meeting of the National Laboratory Scientific and Technical Information (STI) Managers Group was held at BNL on April 21 & 22. Here (from left) Ken Ryan, Manager of BNL's Technical Information Division, and John Laurie, Manager of BNL's Photography & Graphic Arts Division, discuss upcoming sessions with attendees Dan Robbins, Director, Information Division, Oak Ridge National Laboratory; Dr. José-Marie Griffiths, Director, Planning and Design Group, King Research Inc., Washington, D.C.; and Andrew Aines, former Director of STI for the Department of Energy. As keynote speaker, Dr. Griffiths discussed "Emerging Technologies and Their Application to STI."

Birding (Cont'd)

said Raynor, whose own birding background dates back to his youth in Manorville. "I used to bird at the Lab before there was a Lab," he said, "so I know that there are many birds here now that were not here 30 or 40 years ago. And some that were here then are no longer around." This observation, however, is not official. That's the purpose of collecting this information in a wide variety of habitats: to document the types of birds and their numbers in a particular environment and to monitor long-term trends in the plant and animal life at census plot. Birds are good indicators of environmental quality because they are sensitive to changes and easily observed.

Though both census plots are typical of Long Island, they represent two extreme stages of plant succession in oak-pine woodland. The BNL forest is quite mature, in a late stage of succession from scrub oak-pitch pine forest to climax oak forest. White oaks from 20′ to 50′ predominate in this woods, which also includes scarlet oak, black oak and pitch pine. In contrast pitch pines less than 10′ tall make up 100% of the trees in the Westhampton plot, located in a representative section of the Dwarf Pine Plains or Pitch Pine-Scrub Oak Barrens which cover a large area in this region.

Trends and Fluctuations

The birds know the difference. The dominant species in the BNL plot was the rufous-sided towhee with 199 per square kilometer (km^2) in 1982. Next came the ovenbird ($86/km^2$), northern oriole ($43/km^2$), blue jay ($32/km^2$), and eight other species in lesser numbers. At Westhampton, the prairie warbler, which has not been observed at the BNL plot, is the most common bird, with $196/km^2$ in 1982. The rufous-sided towhee was second ($149/km^2$), followed by the Field Sparrow ($62/km^2$) (another species absent from the BNL plot), and three other species with fewer numbers.

The prairie warbler did not always dominate the Westhampton plot. When the study began in 1977, only ten territorial males were observed, placing it second to the rufous-sided towhee. While the title of "top bird" has alternated between the species since then, the prairie warblers have increased their territories almost every year, peaking in 1982 at 19. So far, this appears to be the only real long-term trend observed at the Westhampton site.

Over the first four years of the BNL census, the number of species in the BNL plot declined from 18 to 8. In 1982, however, the number of territories nearly equalled those in 1977, and the species count was back up to 12. Further, most species recorded as no longer breeding on the plot still showed up as visitors, presumably from nearby territories. These species included the black and white warbler, pine warbler and common yellowthroat. "The reversal of the decline of the past few years," said Raynor, "indicates that it was probably not a real trend, but just a normal fluctuation."

That's why this must be a long-term study. As Raynor pointed out in his latest census report, "These data become more valuable as the length of record increases. Longer term trends can only be distinguished from shorter period fluctuations by continued measurements." — Anita Cohen

NSLS Engineering Wins Award

For its role in the design of the National Synchrotron Light Source, the engineering firm of Seelye Stevenson Value & Knecht (SSV&K) won first prize in the special design category of the Engineering Excellence Competition. The competition is sponsored by the New York Association of Consulting Engineers, which made award presentations on April 30.

SSV&K, in a joint venture with the architectural firm of Urbahn Associates, provided civil, structural, mechanical and electrical design services for the Light Source. The firm also supervised construction. One of the most important provisions for the NSLS was a structure and foundation that permitted little vibration or settlement. This was particularly crucial to allow precise alignment of the elements within the storage rings. Variations such as temperature changes, humidity levels, age and load stress were factored into the design of the concrete slabs.

The firm also designed a special cooling system for the bending and focusing magnets within the storage rings. An energy efficient system was designed that recovers rejected heat from the magnets for the reheat control of the air systems in experimental areas.

Equipment Demo

IBM Corporation will be demonstrating its uv visible spectrophotometer, model 9420, on Thursday, May 12, in Room B232 at the Biology Department. The demonstration will begin at 10 a.m. and continue all day.

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Farmers Market Opens Wednesday

Everyone was pleased with the farmers market last year, including the farmers, and they are coming back this year. The market will open on Wednesday, May 11 and will close on October 26. Farmers will be on site every Wednesday from 11:30 a.m. to 1:30 p.m. selling fruits, vegetables and other items. They will park in the same area as last summer — the parking lot adjacent to the theater on Brookhaven Avenue.

At the height of the season, five trucks loaded with produce will park in the lots, but until then, two farmers will truck in whatever produce is currently available. The market is for Lab employees only and is not open to the general public.

Speakers Bureau

Joseph P. Indusi (DNE), Old Field Junior High School, Introduction to Nuclear Energy, April 8.

Earl Blanton (DO); Harvey Thomas (DNE), New York Institute of Technology Career Expo, Types of Careers and Job Opportunities at BNL, April 14.

Frank DeVito (Math), Sachem High School, Careers in Computers, April 20.

Joseph P. Indusi (DNE), W. C. Mepham High School, Introduction to Nuclear Energy, April 22.

Vance Sailor (DNE), Society of Logistics Engineers, The Logistics of Nuclear Waste Management, April 26.

Robert Glasmann (Accel.), Long Island Science Congress, Science Fair Judge, April 26.

Michael Creutz (Phys.), Scientist in Schools Program at Nyack High School, Particle Physics, April 27.

John Denes (Math), Bellport Middle School Career Day,Careers in Computer Science and Data Processing, April 29.

Williams Sells (S&EP), South Country School District Career Day, Waste Disposal, April 29.

Spring Special

Spring is coming (or may already have arrived) and bicycles will be ablooming. But you can't put a bike on the road if it has a flat tire or a broken chain. And what about the bike that's been sitting around all winter, unclaimed? It needs attention.

During the next several weeks, Supply & Materiel personnel will be traveling around the site looking for BNL bicycles that are unattended, or obviously in need of repair. These bikes will be collected and repaired and those unclaimed placed in the pool for reissue.

If your BNL bike needs repair, or you know of one not being used, contact the Warehouse Section of Supply & Materiel at Bldg. T-87, Ext. 7238. All repairs are free.

Cooking Exchange

The next meeting of the Cooking Exchange will be a Port-A-Party on Wednesday, May 11 at 12:30 p.m. Come and enjoy the cooking for "people on the go!"

Meetings are open to Lab employees and their immediate family members. There is a $1 charge per person and babysitting is provided at 50¢ per child.

For more information, call Adrienne Usher, 289-7658, or Dee Polychronakos, 744-3578.

Hospitality News

The Hospitality Committee's next morning get-together will be held Tuesday, May 10, from 9:30 to 11:30 a.m. at the Brookhaven Center.

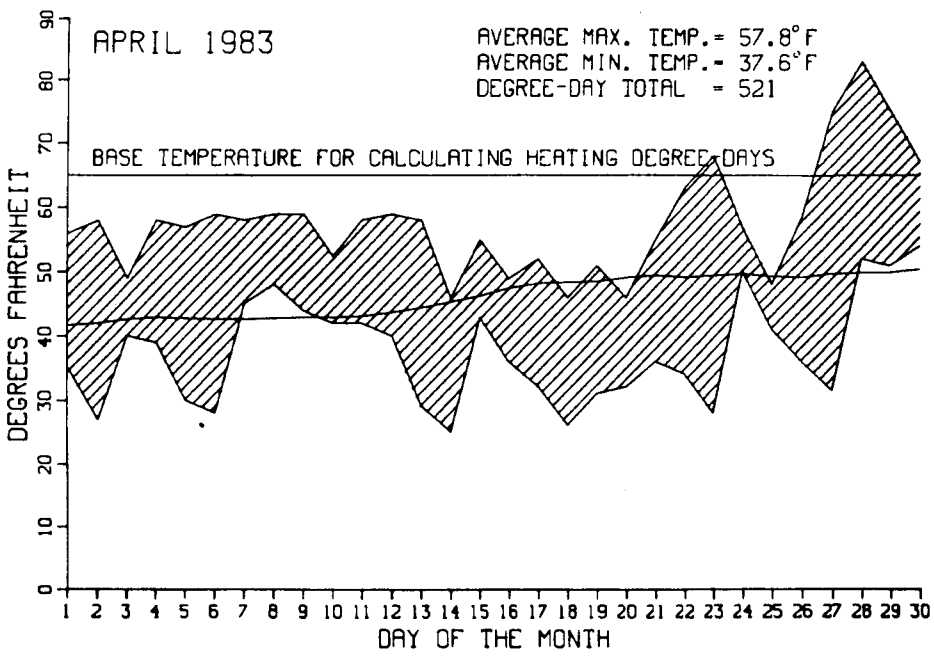
Dining Out

In February, the Public Relations Office asked for recommendations for restaurants in order to update an outdated list. The Accelerator Department responded with a comprehensive guide to area restaurants which had been prepared for visitors to the Lab's high energy physics facilities. This listing is now available to all newcomers and visitors to BNL. For your copy, just stop by Public Relations, Bldg. 134.

Racquetball

The Blue Point Racquet Club will host the first BNL Racquetball Tournament on May 21 for men and women interested in either singles or doubles. The tournament fee is $15 per person and covers court time, beer/soda, cold lunch, consolation round and trophies. To sign up, or to get more information, call Ed McFadden at 363-5170 after 6 p.m.

Degree Days at BNL



Mort Rosen

In mid-April, the 1982-83 BNL badminton season came to a close, and some players were singled out for recognition: (from right) John Elmore, who maintained his number one position without serious opposition throughout the 24-week season; Ken Perkins, who was named the league's most improved player; Naresh Bhagat, who placed second to Elmore in the season's final contest; Marjorie Neuberger, who won the consolation round of that contest; and Y.Y. Chu, who was named the most consistent performer. Not shown are Jack Guthy and Om Singh who were in second and third place for the season. The BNL club joined the U.S. Badminton Association for the first time this past year. Naresh Bhagat, Stu Bookless, Kristin Chung, Jack Detweiler, John Elmore, Marjorie Neuberger and Om Sing competed in the 1983 New York State Open.

Golf

The second tournament of the BGA golf season will be held on Monday, May 23 at the Indian Island Suffolk County Golf Course in Riverhead. The tournament will be scored using the Callaway Handicap System. Tee times will be from 11:30 a.m. to 1 p.m. and may be obtained by contacting Marge Neuberger, Ext. 3396 (Bldg. 463). There is a $1 entry fee for league members and a $2 entry fee for non-league members. All entry fees must be paid by Wednesday, May 18.

Arrivals & Departures

Arrivals

Nikhiles Bandyopadhyay ... Nuc. En.
Lu Ann Lewis ..... Staff Services
Robert Schindler ..... Central Shops

Departures

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

Wolfgang Finger ..... Physics
Deborah A. Lagnese ..... Physics
Winfield J. Lewis, Jr. ..... DEE
Helen L. McHally ..... Physics
Joey Shao ..... Nuclear Energy
James W. Waters ..... Instrumentation

Motorcycle Club

The Motorcycle Club will meet at the Recreation Bldg. on Monday, May 9, at 5:15 p.m. Please attend.

Bowling

White League

J. Petro rolled a 255, K. Asselta 246, J. Ferrante 244/604 scratch, G. Hassell 218, D. Adams 209, G. Fales 203, E. Liguori 193, S. Smith 189. Clearwater is in first by one point followed by the Gropers.

Purple League

High games were bowled by D. Hall 205, P. Calligari 200, M-G Meier 192/179, G. Riker 183. The Good Guys are in first followed by the Draftecs.

Red/Green League

C. Bohnenblusch bowled a 245, J. Conelly 226/200, A. Almasy 226, J. Medaris 225/220/621 scratch, K. Asselta 224, T. Prach 221, H. Marshall 216, D. Jesaitis 211, J. Bohenek 210, R. Jones 207, L. Schairer 203.

Pink League

S. Long had games of 183/213, R. Rosati 161, M. Grahn 173.

May 6 has been designated National Nurse Recognition Day by President Reagan, and May 6-12 as New York State Nurses Week by Governor Cuomo. May 12 is the birthday of Florence Nightingale, founder of modern nursing.

Singles Club

The BNL Singles Club will meet on May 10 at 5:10 p.m., Room D, Berkner Hall. Refreshments will be served.

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 Personnel Placement Supervisor, Ext. 2882.

OPEN RECRUITMENT: Opportunities for present Laboratory employees and outside applicants.

1860. CABINETMAKER A - (Temporary openings) - Under minimum supervision lays out, constructs, modifies and maintains furniture, Laboratory equipment and buildings and component parts. Will work from prints, rough sketches and verbal instructions. Requires minimum of seven years experience as a cabinetmaker. Plant Engineering Division.

1861. TECHNICAL POSITION - Requires substantial experience in the areas of precision mechanical instrumentation, low noise electronic signal processing, ultra high vacuum techniques and computer control. Will work on a user x-ray beam line. National Synchrotron Light Source Department.

1862. TECHNICAL POSITION - Requires significant demonstrated experience in the repair and maintenance of sophisticated mechanical and electronic equipment. A working knowledge of computer interfacing and programming is desirable. Will work on a user VUV beam line. National Synchrotron Light Source Department.

1863. SECRETARIAL POSITION - Requires excellent secretarial and communication skills. Duties include report and correspondence preparation, travel arrangements, as well as extensive word processing duties. Experience with Daconics word processing system is desirable. Department of Nuclear Energy.

1864. TECHNICAL POSITIONS - Requires AAS degree in electrical technology or equivalent and experience with electronic test instruments, high voltage and/or high current power supplies. Will be involved in testing cryogenic magnets. Shift work required. Accelerator Department/CBA.

1865. TECHNICAL POSITIONS - Requires AAS in mechanical technology or equivalent. Will wire CBA magnets for testing, fabricate magnet power leads and do high voltage testing. Shift work required. Accelerator Department/CBA.

1866. TECHNICAL POSITION - Requires AAS in mechanical technology or equivalent and familiarity with mechanical assembly and machine tools. Will participate in testing cryogenic magnets. Shift work required. Accelerator Department/CBA.

SCIENTIFIC POSITIONS OPEN: The following staff positions are open. Candidates may apply directly to the department representative named, or through the office of Scientific Personnel, Ext. 3338.

STAFF SCIENTIST - for environmental systems analysis group, to work on the analysis of air quality and related problems with emphasis on acidic deposition. Experience with environmental impact assessment would be helpful. Position requires an advanced degree in the environmental sciences, or engineering. Contact: F.W. Lipfert, DEE, Ext. 2057.

Autos & Auto Supplies

71 CAMARO - 6 cyl., m/t, 96,000 mi., orig. owner, asking $800. Ron, Ext. 3987.

73 CHEVY VEGA - 4 spd., runs well. Ext. 3596 or 821-1039.

CANVAS TOP - Jeep, fits 73-83, CJ-5, brand new, $250. 744-6032.

79 HONDA MOTORCYCLE - CM400T, 2,000 mi., garaged, must sell, $1,000. Ext. 7125.

78 FIAT SPYDER - 1800, convertible, 5 spd., 49,000 mi., very good cond. 589-0643.

79 FIAT STRADA - 23,000 mi., bucket seats, a/c, am/fm, 5 spd., rear defogger, $2,550; 1974 Chevy Camaro, rally sport, 4 spd., bucket seats, am/fm stereo, p/b, p/s, $2,875. 821-9280.

77 FORD GRANADA - 2 dr. sedan, a/t, p/s, p/b, clean, excel. running vehicle. 757-3178 after 6 p.m.

76 PLYMOUTH VOLARIE - 4 dr., a/c, p/s, p/b, 47K mi., excel. cond. Irv Meyer, 929-4326.

73 VEGA - 88K mi., runs well, dependable, 30 mpg, $400, will dicker, must sell by June 1. Jeff, 282-4815 weekdays.

74 BMW - 2002, excel. running cond., new everything. Donna, Ext. 5138 or 473-5095 after 6.

74 BLAZER TOP - $750; rear quarter panels, $500; Buick Electra w/motor. 744-3968, leave message.

78 PORSCHE - 33,000 mi., fm, a/c, $9,000. 212-358-5705.

77 HONDA - CB750K, 11,000 mi., clean, excel., extras, $1,295. Rich, Ext. 4482 or 277-1129.

ANTIQUE GRINDER/SHARPENER - updated w/motor attachment, heavy duty, $150. Ext. 3688.

80 DATSUN PICKUP - fiberglass cap, step, bumper, mirrors, 30 mpg, 42,000 mi., clean, fine cond., $4,975. 728-0273.

81 MUSTANG - hatchback, 4 cyl., 4 spd., am/fm stereo, like new, low mi. 234-7225.

79 MONZA - 4 spd., 4 cyl., low mi., am/fm stereo, like new. 543-3681.

71 CHEVELLE - 2 dr., auto., mag wheels w/spare, 1973 350 cu. in. eng., all for $1,350; 1976 AMC Sportabout, 61K, auto., air, $1,100; 1970-1/2 Camaro, flares, mag wheels, auto., sunroof, $1,900. 265-3731.

TIRES - steel radials, GR70x15, mounted on Plymouth rims, $25/pair. Bill Stars, 289-9648 after 6 p.m.

DUNE BUGGY - new paint, new parts, mint, best offer. John, Ext. 5385 or 744-0290.

78 HONDA MOTORCYCLE - 750K, 3,000+ mi., loaded, mint cond., $1,700. 289-1122 after 6 p.m.

72 DODGE POLARA - excel. in & out, well maint., excel. running, $700. 924-3281 eves.

72 HONDA MOTORCYCLE FRAME - custom rigid frame w/fender & seats, oil tank, many extra parts, asking $350. 654-2076 eves.

VW PARTS - muffler assemblies, $28; bumpers, $27; 009 distributor, $36; full line of new parts at discount prices, call for needs. Augie, Ext. 2419 or 289-4211 eves.

73 MAVERICK - good runabout, 6 cyl., blue, some rust, $350 or best offer. Ext. 3389 or 654-5921 eves.

68 VW - squareback, rebuilt eng., some body rust, $250. Tom, Ext. 3128 or 928-7344 eves.

72 PONTIAC LEMANS - 56,000 orig. mi., new tires, poor body cond., $250. George, Ext. 4476 or 744-4912.

74 CHRYSLER NEWPORT - $900 or best offer. 727-5912 after 6 p.m.

82 CHRYSLER LEBARON - 4 dr., loaded, 14K, $7,000. Ext. 4613 or 878-1921.

TRAILER HITCH - Class III, 10K lbs. carrier & head, $75. 732-5004.

FORD CARBURATOR - pass. or truck, 1965-1974 w/inst. sheet, $25. 732-5004.

75 TRIUMPH TR6 - needs work, $1,700. Ext. 5053 or 472-1735 after 5 p.m.

MOTOROLA CAR RADIO - am, pushbutton w/speakers, good cond., $10. Pete, Ext. 4324.

PIONEER STEREO - under-dash, fm cassette w/slide bracket, KP-500 w/supertuner, excel. cond., asking $85. Chip, Ext. 2256.

RUBBER CAR MATS - set, almost new, for compact car, $10. Pete, Ext. 4324.

TRUCK TIRES - 17.5 x 8.00, Remington Hiway, heavy duty, mounted, balanced, like new, Chev/GM, $125/pr. 265-1039.

FORD/MERC RIMS - (2) 14", 5-holes, $20. Tony, Ext. 3637 or 3658.

CHEVY TRANSMISSION - 4 spd., excel. cond, $125. Ext. 2697 or 325-0743 after 6 p.m.

80 TOYOTA COROLLA - lift back, sport coupe, 5 spd., low mi., stereo, mint, $5,200. 727-4473 eves.

69 OLDS NINETY-EIGHT - good running cond., all power, needs minor work, asking $600. Steve, 929-6877.

USED CARS - $1,000 and up. Steve, 929-6877 after 5:30 p.m.

80 TRANS AM - Pontiac Turbo, p/s, p/b, p/w, a/c, T-top, excel. cond, am/fm, asking $8,500. Steve, 475-6375.

74 FIAT ENGINE - new valves & rebuilt transmission, $195. Peter, Ext. 2734 or 928-2469.

80 CITATION - 2 dr. hatchback, 4 spd., velour bucket seats, 4 cyl., a/c, p/s, p/b, am/fm, $2,800. 212-343-3154 after 6 p.m.

73 YAMAHA - 250RD, MC, $250 or best offer, Ext. 4725 or 473-8716.

79 FIAT STRADA - luxury package, am/fm, 5 spd., 35 mpg, lift back, 27,000 mi., $2,700. Richard Gagliardi, Ext. 4613 or 821-9296.

73 TOYOTA PICKUP - 4 spd., recent valve job, good cond., $1,600. Al, Ext. 5128.

78 MONTE CARLO - V-6 eng., am/fm stereo, p/s, p/b, auto., new radials, 33,000 mi., $3,350. 821-9280.

71 PONTIAC CATALINA - $300. Ext. 2951.

76 CHEVY - CK-20, 4 spd., p/s, p/b, am/fm, 38K mi., new tires, tack, cap, 4x4 clean, 8' bed. 744-0471.

78 HONDA - 400 cc, auto., low mi., very good cond., $900. John, 744-4386.

MAG WHEELS - (4), Pinto alum. mags., $50; 72 Chevy truck trans., 4 speed, asking $100. Dick, Ext. 3499 or 589-9103.

CASSETTE DECKS - (2), am/fm, $50-75. Bob Kiss, 981-6092.

79 MAZDA 626 - 2 dr/sdn., excel. cond., 5 spd., met. blue, rust proof, 30-35 mpg, $4,750. Larry, Ext. 4107 or 472-0721.

75 CHEVY NOVA - 4 dr., blue, 3 spd. standard, economy, 262-V8, radial tires. Hugh, Ext. 4424 or 924-3293.

72 FORD WINDOW VAN - E200, V-8, new auto. transmission, new tires. Hugh, Ext. 4424 or 924-3293.

75 TOYOTA COROLLA - 2 dr., hard top, 4 spd., high mi., but well maintained, excel. cond., $1,200. June, Ext. 7631 or 878-2040 after 6:00 p.m.

80 CHEVETTE - 4 dr., hatchback, 4 cyl., 4 spd., very good cond. Bob Kiss, 981-6092.

71 JAWA DIRT BIKE - CZ 400, runs excel., extras, must sell. Al, Ext. 2011.

77 SAAB - 99 EME, Sport Coupe, sunroof, luggage rack, Perelli tires, gold alloy rims. Jim, 667-3909.

72 TOYOTA CORONA - 5 spd. manual, runs well, some rust, $700. Glenn, Ext. 3336 or 472-1419.

75 TOYOTA CORONA - 2 dr. s/s, eng. & int. good, $950. 924-5100 or 878-8144 eves.

78 HONDA MOTORCYCLE - 750cc, new tires, king/queen, runs good, $1,400. Denise, 588-5467 after 5 p.m.

RIMS - slotted chrome, 15x6, Chevy pattern, 2/$5. Augie, Ext. 2419 or 289-4211 eves.

Boats & Marine Supplies

33' ULRICHSEN - 1969, 1 owner, twin Chryslers, double planked, wood hull, in storage Stony Brook Marina. 751-1398.

18' LARSEN - fiberglass, 1976 outboard, 115 Johnson eng., good cond., $2,100. Jim, 698-2501.

69 WINNER - bow rider, 55 HP, with trailer, elec. windows, $1,500. 265-3731.

27' RICHARDSON - 6 cyl., fly bridge, well equipped, $800. 878-8543.

80 RENKEN - 21' cuddy, 120 Volvo, penta engine, I/O many extras, full canvas, compass, 50 hrs. use, excel., $7,000. 981-0989.

16' COMET - fiberglass on wood, aluminum mast, new trailer, any reasonable offer. Bernie, Ext. 4842 or 331-2298.

PROP - Merc 65-150, excel. cond., $35. Ext. 4107.

17' O'DAY - good cond. w/trailer, $1,500. 286-0745, eves & weekends.

JOHNSON OUTBOARD - 25 HP, L.S., used 20 hrs., spare tank, prop, etc., $800. John, Ext. 4243.

14' SAILBOAT - Bluejay, fiberglass over wood, old, asking $500 or make an offer. Ken, Ext. 7959 or 581-1169 eves.

15' THUNDERBIRD - fiberglass, 35 HP Johnson, good cond., in water, $650. 298-4475.

FISH-FINDER - Ross Sportsman recorder/flasher, mint, $300. John, Ext. 4243.

20' GARVEY - glass-decked, excel. cond., $800. 589-4327 after 6 p.m.

MARINE ENGINE PARTS - new, used, reconditioned, large inventory, Johnson, Evinrude, OMC, Sterndrive. 265-5218 eves.

24' WINNER CRUISER - white, all fiberglass, sleeps 3, 165 HP, Mercruiser, Sterndrive. Ext. 2173.

CHRYSLER ENGINE - '73, 105 HP, new power pack, tune-up, winterized, runs perfect; 20' Owens wood boat w/cabin, '59, $900 for both or $700 for eng. & $250 for boat. Linda, Ext. 2733.

Miscellaneous

TICKETS - (2), Merry Widow, St. Johns the Baptist H.S., W. Islip, Sat. May 28, $8/ea. Ext. 2881 or 286-3372.

GUITARS - 6-string and 12-string, Giannini, both complete, fair cond., make offer. Fred, Ext. 7947 or Ext. 4283.

FIREPLACE - free standing with 15 ft., 10 in. stainless pipe and all hardware, cap, brackets, etc., $300; chrome contemporary chairs, one brown and one black velvet, $50/ea. 698-3394.

SULKY - for Gravely tractor, plus other attachments. Ext. 3688.

NATIONAL GEOGRAPHIC MAGAZINES - many complete years, some back to 1919, also Scientific American. Tomesch, 475-9065.

BOY'S THREE PIECE SUIT - Botany, navy, size 14, $25. Sue, Ext. 7235 or 399-1736 after 5 p.m.

CHANDELIER - 4 light, lovely, old, $75, flexible; child's bike, 2-wheel, convertible, $15. 286-3847.

SEWING MACHINE - Singer, used twice, numerous attachments, cabinet incl., $125. Ext. 3673.

MILK ALTERNATIVE - Milk allergies? Meadow fresh delicious, nutritious, non-allergic, cost is less than milk. 567-6821.

WHEEL BARROW - large, $5; one cord wood, best offer over $50. Ext. 2543.

JACKET - mouton lamb, brown, fits sizes 14-16, good cond., $75. 475-0144 after 6 p.m.

WESTIE PUPS - champ bloodline, ready end of May. Richie, Ext. 2175 or 734-7342 after 6 p.m.

CANOPY FRAME - white, good cond., $50. Ext. 2964.

HAMS - Heath C.W. transceiver HW16, with V.F.O., ant., tuner, SWR meter, coax switch, complete, $200. LT9-2648.

ROOF RACK - 37"x37", excel., $20. 744-9677.

CALCULATORS - credit card size, Enterprex, complete with case and directions, new, $8/ea. Pete, Ext. 3516 or 399-2813.

SECTIONAL SOFA - 3 piece, green brocade, good cond., $150 neg. 588-6333.

VEGETABLE PLANTS - 6-pack, flower plants, 4-pack, $.75 per pack, delivery around May 1. 727-6818.

ANTIQUE WILLOW WICKER COUCH - and chair, excel. cond. Judy, Ext. 2145.

GIRL'S BICYCLE - 20 in., 3 spd., very good cond., $30. 924-3281 eves.

REFRIGERATORS - (1) Frigidaire, $75; (1) Hot Point, $80; upright, white, very good condition. 289-3848.

CASSETTE DECK - $75; wine barrels, $5-15; side table glass top, $20. Ext. 3128 or 928-7344 eves.

DINING ROOM SET - chrome & glass, 6 chairs, excel. cond. 878-8543.

GOLF CLUBS - bag & cart, McGregor, used 1 yr., like new, excel., $175. 732-5004.

COMMUNION SUIT - 3 pc., dark blue, size 8. 567-5131.

PLANTS - Lily of Valley, 50 for $2.50; fir & spruce evergreens, 20"-40", you dig, 2 for $7. 878-6637.

LAWN SET - decorative wrought iron, wild grape pattern, needs painting, $100. Jack, Ext. 2907.

GE AIR CONDITIONER - 14,000 BTU, operates on any outlet; Toro 21" self propelled mower. Ext. 3392 or 475-8330.

CONCERT SUBSCRIPTIONS - to share '83-'84, NY Philharmonic, Sat. eves; Chamber Music, Lincoln Center, Sun. 5 p.m. Paul, Ext. 2264 or 941-9055.

GOLF CLUBS - driver, sand wedge, 8-iron, 2-putters. George, Ext. 7956 or 2021.

GIRL'S TIMEX WATCH - mechanical metal flex band, good condition, $5. Pete, Ext. 4324.

COUCH - 8', yellow cord., $100; weight bench, $10. 744-1845.

SOFA TABLE - Bassett, square, 6' wall units w/bar & sliding doors, Douglas dinette. Ext. 3565 or 924-8594.

WEIGHT SET - Dan Lurie, 85 lb., $20; Sunbeam floor polisher, $35. 475-8971 after 6 p.m.

CAR SAFETY SEAT - Century 200, birth to four yrs., clean, like new. Mike, Ext. 7594 or Marie, 325-1711.

ELECTRIC WATER HEATER - 82 gal., 240 volts, dual element. 588-4126 after 5 p.m.

TAPE RECORDER - Panasonic model 3100, a/c adapter, perfect cond., $40. Ext. 3876 or 4822.

QUARTER HORSE - registered, 4 yrs. old, Bay Mare, 14.2 hands, smooth gaits, jumps. 981-5765 after 6:30 p.m.

GOLF SHOES - Foot-Joy, all leather, size 9½EEE, $20. Ext. 4696.

WOMAN'S BIKE - Mixte, 10 spd., "Motobecane", very good condition, many extras, $85. Henry, Ext. 3808.

CAMERA - Cannon AE1, fully automatic, 55mm lens, 155A speedlite, case, perfect cond., rarely used, $250 neg. Pam Esposito, Ext. 2343 or 289-6081.

AIR CONDITIONER - Sears, 11,000 BTU's, 110 volts, window or wall, $100. John, Ext. 5152 or 281-2471.

KITCHEN SET - 4 chairs & table. Ext. 2050 or 281-7986.

FREEZER - 20 cu. ft., upright, excel. cond., $175. Paul, Ext. 4156.

BABY GRAND PIANO - moving, must sell, excel. cond., reasonable. Mrs. Muff, 477-0828 weekdays or 765-5431 weekends.

AIR CONDITIONER - Fedders, 6,000 BTU's, reasonable. Sal, Ext. 2460.

WINDOWS/DOORS - wooden, double hung w/storms, metal and wooden storm doors. Bob, Ext. 7785.

BATHROOM FIXTURES - sinks, vanity, cabinets, etc. Bob, Ext. 7785.

LENOX CHINA - service for 6, Orange Blossom pattern; 40 channel Cobra CB radio w/antenna, $40. 399-5863 after 6 p.m.

WELL PUMP - Gould Deep, ½ HP w/42 gal. stubby water tank, best offer. Larry, Ext. 2021 or 281-7240.

CASEMENT WINDOWS - heavy duty aluminum, screens, storms, incl. various sizes, $20 ea. Niels, Ext. 4124.

ORGAN - Wurlitzer double keyboard, rhythm pedal, built in tape recorder, excel. cond. 821-0080 after 5 p.m.

MEN'S BASEBALL SHOES - leather, Adidas, sizes 10M & 10½M, $8 ea., excel. cond. 289-8212.

CHANDELIER - dining room; 2 bdrm. hanging lamps. Ext. 4531 or 331-3785.

RCA DRYER - Whirlpool gas, 3 cycle, $50; Westinghouse refrigerator, 16 cu. ft., side by side, $75. Bob Kiss, 981-6092.

TODDLER CAR SEAT - 20-40 lbs, American Safety, $25; booster seat, $3. Sue, Ext. 7772.

BEE HIVES - w/bees & queen, produce your own honey, $150 ea. Hugh, Ext. 4424 or 924-3293.

ROOM DIVIDER - wood w/2 lights, $75. 878-2421.

UPRIGHT FREEZER - Sears, 16.8 cu. ft., like new, $200. 878-2421.

R/C KRAFT SPORTSERIES - 4 servos, charger, motor, 3 planes, extras, $325. Ext. 7187 or 981-9474.

9' POOL TABLE - AMF Grand Prix, slate top, auto. ball return, excel. cond., all accessories, $1,095; men's golf clubs, 3, 4, 5, 6, 7, 8, and 9 irons, 3 & 4 woods, and putter, old but makes good starter set, $20. Linda, Ext. 2733.

ELECTRIC MOTORS - (2) 5 HP, 3 phase, commercial, $500; white oak Fr. Provencial hutch type bookcase. 289-0967 after 5 p.m.

OCCASIONAL CHAIR - comfortable, good cond., $40. Carol, Ext. 2907 or 698-8510.

TAPE PLAYERS - (2) 8-track, $10 each. Dan, Ext. 7518 or 929-3195 eves.

Free

DOG HOUSE - you pick up, Eastport. Karen, Ext. 2950.

RED FEMALE DOG - altered, all shots, med. size, Shepherd-Husky mix, about 2 yrs. old, quiet. 286-8496.

Yard Sale

BROOKHAVEN - May 7 & 8, furniture, household goods, etc., 19 Carman Blvd.

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

MT. SINAI - 3 bdrm. ranch, 2 baths, finished basement, central air, fully furnished, July 1-August 31, $700/month not incl. util. Ext. 4260 or 928-5737.

MIDDLE ISLAND - Artist Lake condo., 1 bdrm. apt., $415/mo. incl. gas heat & hot water, appliances, washer, dryer & dishwasher, avail. end of May. 331-2025 between 10 a.m. & 3 p.m.

EASTHAM, CAPE COD - June-Sept., 4 bdrm. house, sleeps 8, 2 baths, washer/dryer, dishwasher, deck, near beaches, $575/wk. 722-3865 eves.

For Sale

EAST MORICHES - Newport Beach, 3 bdrms., 2-1/2 baths, 2-car garage, laundry rm., fireplace, fenced back yard, 2-zone heating, 1/2 acre, deeded private beach rights, docking space/launching ramp avail., near the Hamptons, $70,000. Ext. 2733 or 878-8491.

MIDDLE ISLAND - Coventry Manor, 3 bdrm. townhouse, 5 min. to Lab., central a/c, 5 appliances, new w/w carpet, wood stove, loft den, skylights, cathedral ceiling, prime location, wonderful for family w/children, $47,900. Ext. 5284 or 924-4237.

MASTIC - 3 bdrm. ranch, family room, excel. cond., avail. immed., $50,000. 928-9222 or 698-4197.

NO. SHOREHAM - Shoridge Hills, custom built 3 bdrms., 1-1/2 baths, 7 rms., in excel. cond. on high 1/2 acre, 2 car garage, finished den, low taxes, private community, deeded beach rights, priced in high 70's. 744-8483.

RIDGE - adult condo. at Leisure Village, 2 bdrms., garage, porch, all appliances, & A.C., $60,000. 821-0865.

Car Pools

HUNTINGTON/MELVILLE - three-man car pool looking for a fourth. Meyer, Ext. 3036.

RONKONKOMA - driver to join 3 person pool near LIE, Exit 60. Victor, Ext. 2395.

STONY BROOK - Strathmore vicinity, established car pool needs an additional member. Ext. 4192.

Wanted

DENIM JACKET - with picture of Jim Morrison painted on back. Ext. 7597.

TELEPHONE ANSWERING MACHINE - must be in excel. cond. 331-4768.

EXTENSION LADDER - aluminum, 28'-30' for about $75. 473-4542 nights or weekends.

PORTA CRIB - wood finish, good cond., reasonable price. 589-5490.

8-TRACK PLAYER - Ext. 4030 or 878-2484.

RADIO SETS - old ship to shore, any condition. Ext. 5297 or 363-6290 eves.

FAMILY TENT - & hiking tent; camping light. Roef, Ext. 5506 or 928-7328.

BUNK BEDS - for small bdrm. 473-1578.

ENCYCLOPEDIA BRITANNICA - 2 or 3 yrs. old, reasonable. Ralph, Ext. 4171.

BABYSITTER - experienced, for a toddler girl, Stony Brook area, starting June. Ext. 2959 or 282-3071 after 6 p.m.

TO RENT - apt. or house for the month of July, young couple w/child, $300-350. Richard, Ext. 4584.

Services

Services are listed as a courtesy to BNL employees. They are neither screened nor recommended by the ***Bulletin****.*

MOTHER'S HELPER - experienced teen seeking full time summer employment, Bellport, E. Patchogue area. Angela, 289-5251.

WATCH REPAIR - George Hrabak, Ext. 3536.

HOUSE CLEANING - and/or babysitting, hours flexible, experienced, refs. avail., college student. Corine, 289-9580.

CHEMISTRY TUTOR - high school, regents, and general, 20 yrs. exp. 286-8119.

PIANO LESSONS - highly experienced, proven results, free trial lesson, specialize in beginners. 286-8119.

SOLAR NAILS - by appointment. Judy, 924-9337 leave message.

THREE PIECE BAND - parties, weddings, all occasions. 924-9337 after 5.

LAWN CARE - complete weekly maintenance, free estimates. Mike, 585-4038.

ROTOTILLING - gardens, lawns, etc. 929-3209 after 6 p.m. or weekends.

STRINGING - stringing is back, all type rackets & grips. Ext. 7130.

HOUSE SITTING - free, caring, responsible, experienced, any duration after May 8. J. Allentuck, Ext. 2412.

LAND CLEARING - using excel. rake on JD 450 track loader, $45/hr. w/operator. Tom, Ext. 4084 or 878-1060.

KNIVES SHARPENED - on a flat stone. A razor edge, $1 per knift. Dave, Ext. 4388 or 286-9256.

SEAMSTRESS - alterations and mending, reasonable prices, refs. Colleen, Ext. 2716 or 929-3573.

LIGHT BULLDOZER WORK - digging, grading, backfilling, loading, loam, topsoil. 325-0193.

DJ AVAILABLE - for all occasions, 50's, 60's, 70's and 80's music, reel to reel, encoded/decoded to master tapes. Al, Ext. 3992 or 331-1003.

Ads left out of this issue due to lack of space need not be re-submitted to appear in next week's issue. Please note that ads may not be more than 15 words long and must be received in the Bulletin office by 4:30 p.m. Friday, for inclusion in the following week's Bulletin.

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