

Pegram Lectures Next Week

Nobel Laureate Sir Peter Medawar of the Clinical Research Centre, Harrow, England, will present the Pegram Lectures on March 28, 29 and 30. All lectures begin at 8 p.m. in Berkner Hall and are open to the public. Sir Peter's topics will be: "The Philosophy of Prediction Illustrated from Medical Science" (March 28); "The Story of Tumor Immunity" (March 29); and "Is Human Understanding Finite?" (March 30). The March 28 and 30 lectures are intended for a general audience, while the March 29 talk, dealing with Sir Peter's recent research on tumor immunity, is expected to be more technical in nature.



At Islip MacArthur Airport, the Congressional delegation was met by Lab Director George Vineyard, Deputy Director Warren Winsche and Associate Director Vincent O'Leary.

—photos by Humphrey

TRANSVAN Revs Up

Response to the announcement of the Laboratory's vanpooling program has been overwhelming. As of this week, over 600 employees had indicated they wished to participate. So it's "GO" for TRANSVAN. Bids are in the process of being analyzed and, to get the program started, three vans will be purchased in the near future. Depending on the vans' delivery date, it is hoped that the program will be under way by June 1. According to Laboratory officials, the program will be considered experimental for the first three to six months. During this time, everyone concerned will get a chance to see how the program actually works and to make further plans.

Barney McAlary's office has been swamped with calls requesting additional information. To keep everyone informed, we note below some of the most frequently asked questions.

Q. Have drivers or locations been selected for the pilot program?

A. No. Survey forms are still being received and the information is being analyzed. When the selections are made, information meetings will be scheduled for those involved and a notice will be carried in the *Bulletin*.

Q. Is TRANSVAN restricted to the four locations listed in the *Bulletin* (Port Jefferson, Riverhead, Patchogue and Bellport)?

A. No. These locations were listed merely to serve as examples. Areas will be selected on the basis of employee concentration, interest, and energy conservation.

Q. What happens if the driver of the van is sick or on vacation?

A. Each van will have a back-up driver who will take over on such occasions.

Q. Does the driver of the van have to provide gas at his own expense?

A. No. All the expenses of operating a van (fixed and variable) will be covered by the fare charged.

Q. Does the driver of the van have unlimited use of the van on evenings and weekends?

A. The driver will have use of the van evenings and weekends, but not unlimited use. We would expect that personal use on weekends not exceed 100 miles in radius.

Q. Where will gas be obtained and maintenance provided?

A. For convenience, we are thinking of having the onsite Mobil station provide these services.

Q. If both husband and wife work at the Lab, are they eligible for a reduced fare?

A. No. The fare charged will be per person.

Q. Can a passenger in a van pay by the week?

A. No. Fares charged will be on a monthly basis.

Q. What happens when a passenger goes on vacation, or is ill?

A. Fares are payable monthly in advance. Personal arrangements can be made for someone to take your place during that period and reimburse you for the fare.

Q. Will consideration be given to shift workers in the TRANSVAN program?

A. Generally, it is much more difficult to coordinate vanpool arrangements for shift workers, but that doesn't rule out the possibility if enough interest exists.

(Continued on page 2)



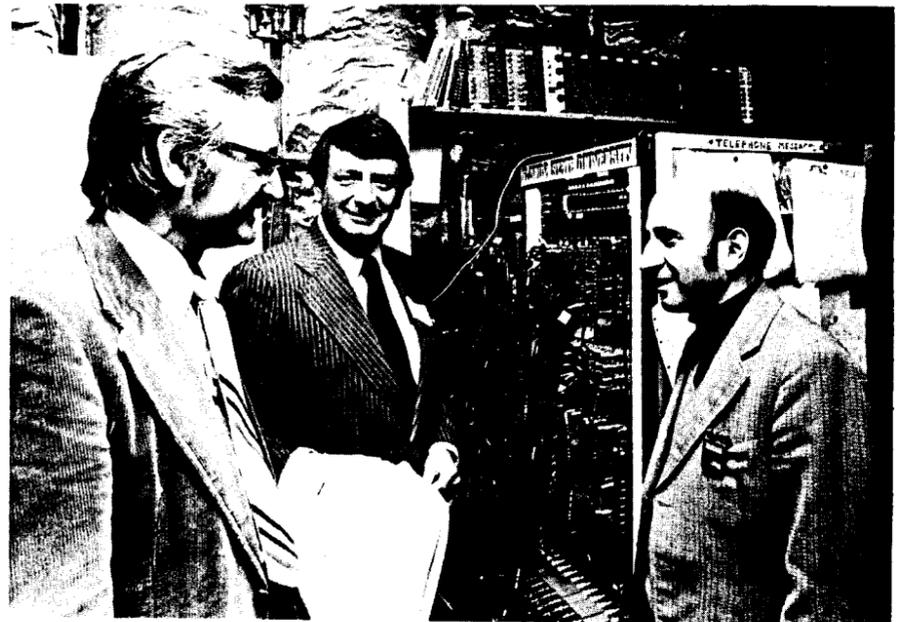
On the bus en route from the airport, and between stops on site, Lab Director George Vineyard briefed the delegation.



Flanked by Congressmen Jerome Ambro and Don Fuqua, Ralph Fairchild at the Medical Center explains PETT (Positron Emission Transaxial Tomograph) to the delegation.

Congressional Visit

Seven members of the House Committee on Science and Technology, accompanied by committee staff, paid an overnight visit to Brookhaven on March 15. Congressmen Don Fuqua (D-Fla.: committee chairman), Jerome A. Ambro (D-N.Y.), Allen E. Ertel (D-Pa.), Manuel Lujan, Jr. (R-N.M.), Harold L. Volkmer (D-Mo.), Douglas Walgren (D-Pa.) and John W. Wydler (R-N.Y.), arrived late in the afternoon at Islip MacArthur Airport. At the Laboratory they were briefed by Director George Vineyard, visited the ISABELLE Work Area, the Brookhaven Medical Center, and observed a typical experiment at the AGS. DOE Regional Representative Robert Low and other DOE officials were also on hand for the Congressional visit. Members of the Director's Office and department chairmen joined the visitors at a reception and dinner in Berkner Hall. The Congressional delegation stayed overnight at the Laboratory and left the next morning on a tour of other Long Island organizations.



At the AGS, Congressman Don Fuqua (D-Fla.) talks to Joseph Lannuti (left) and Vasken Hagopian (right) who are conducting a Florida State University experiment at the MPS.



Project Head James Sanford (left) showed visitors through the ISABELLE Work Area.



Congressman Harold L. Volkmer (D-Mo.)

On Car Rentals

On May 1, 1978 Avis allowed AUI, BNL and NRAO a 15% discount on "dry rate" Time and Mileage charges. Dry rates apply to those rental agreements which require the customer to pay for gasoline used. "Wet rates," those applicable to rental agreements which required Avis to pay for gasoline, are no longer offered in most locations.

Due to increased volume of business since May of 1978, we have been able to negotiate more economical terms with Avis. Commencing on April 1, our employees (BNL, AUI and NRAO) will be entitled to Flat Rate car rentals from Avis with unlimited mileage. Rates in 48 States and the District of Columbia, available from all Avis corporate and participating Licensee locations, will be:

\$14.95 per day for A cars, sub compacts
22.00 per day for B cars, compacts
23.00 per day for C cars, intermediates
24.00 per day for D cars, full sized

These rates do not include gasoline, and cannot be discounted, but do provide unlimited mileage.

At those few Avis locations which do not participate in Corporate Flat Rates and in those rentals involving a one way rental, a 20% discount on normal time and mileages charges is available.

Rates in Alaska, Hawaii and foreign countries are also subject to discounts. The Travel Office can provide specific information on request.

The Travel Office will continue to make reservations for car rentals in accordance with SPI 4-01. However, an employee may obtain a car at these rates from Avis. The Brookhaven National Laboratory Identification Card and the Avis AID number are all that is required to obtain the rates. AID number stickers, which may be affixed to your credit card, are available in the Travel Office. Brookhaven National Laboratory is listed as a "National Account" in the "Special Account Section" of the "Avis Counter Quick Reference Guide" which entitles the traveler to charge the rental via Central Billing to BNL.

It is not necessary to be on official travel to obtain these discounts; they are available to Brookhaven National Laboratory employees for personal use.

In the latter case: Do not have charges billed to Accounts Payable at BNL as you may for official travel; use a personal charge card or cash. Make your own decision concerning the Collision Damage Waiver and Personnel Accident Insurance. The fees for these are not reimbursable for official travel, but the insurance may be a wise investment on a personal basis.

—William S. Webster
Manager, Staff Services

TRANSVAN

(Cont'd)

Q. Who owns the vans?

A. In the pilot program, AUI is providing the funds for the purchase cost of the three vans and is the legal owner. Each van will cost approximately \$7600 and have a trade-in value at the end of three years of about \$3,400, leaving a net cost of \$4,200. The \$4,200 will be returned to AUI at the rate of \$1,400 per year for three years, as part of the fixed cost included in the passenger fare. Since AUI is providing these funds without an interest charge, the passenger fares are consequently lower.

Those who have not yet responded to the survey and who wish to do so, may obtain a form by calling Barney McAlary's office on Ext. 2494.

Passport Note

Personnel from foreign countries who hold appointments at the Lab frequently find that they'd like to extend their authorized stay in the U.S. for a longer period of time than they first anticipated. To do so, a visitor's passport must almost always be valid for six months beyond the length of time they wish to remain here. However, visitors who want to extend their length of authorized stay often have passports that are about to expire. Problems sometimes arise because it may take several months to renew a passport.

Visitors are advised to renew their passports while they are still good, for at least another year, to avoid any complications if they decide to extend their visit. Passports may be renewed at the consulate of the visitor's native country. Consulates for most countries are located in New York City.



Electron Microscopist John Warren and the new Scanning Electron Microscope (SEM) which was recently added to the Instrumentation Division's array of research tools.

—photo by Humphrey

Versatile Microscope Aids Researchers

The AMR 1000A Scanning Electron Microscope (SEM) and an energy dispersive x-ray analyzer have been operating for several weeks. The machine is not only used by Laboratory staff, but by outside users such as oceanographers from the State University at Stony Brook and museum archaeologists from the New York Museum of Natural History. The SEM is a very powerful research tool because of its ability to provide images of the surface of almost any material with a resolution and depth of field that far exceed optical microscopy. In addition, the x-ray analyzer permits complete identification of all elements (atomic number 11 or higher) that are present in the area being scanned by the electron beam.

Because of this versatility, the SEM can be of use in many areas of research in both the physical and biological sciences. For example, within the last month Warren has worked on such varied projects as holo-

graphic diffraction gratings to be used with the Synchrotron Light Source, a study of bonding properties of polymer cement, high temperature degradation of graphite used in nuclear reactors, and changes in individual cells in tissue samples irradiated with charged particles at the Van de Graaff accelerator. The machine is equipped with a lanthanum hexaboride filament which is much superior to the old tungsten filament. In addition, practically every SEM accessory commonly used, such as solid-state backscatter and STEM detectors, beam-blanking, a cold-stage, and a 50 KV accelerating potential can be used with the new instrument. Warren, who is in charge of the machine, says that the new SEM can produce high quality images at magnifications 10 times as high as the instrument it replaced in just a fraction of the time. Warren would be glad to demonstrate the machine's capability to interested users and can be reached on Ext. 4203. The service is free to Laboratory staff.

Men Who Became Units Of Measurement And The Units Named After Them

1. AMPERE

After André-Marie Ampère, French (1775-1836). The ampere is a unit of electrical current, or the flow of electricity.

2. COULOMB

After Charles Augustin de Coulomb, French (1736-1806). The coulomb is a unit of electrical charge.

3. FARAD

After Michael Faraday, English (1791-1867). The farad is a unit of electrical capacitance.

4. HENRY

After Joseph Henry, U.S. (1797-1878). The henry is a unit of electrical inductance.

5. HERTZ

After Heinrich Rudolf Hertz, German (1857-1894). The hertz is a unit of frequency: 1 henry = 1 cycle per second. Thus, 1 kilocycle and 1 kilohertz both equal 1,000 cycles per second.

6. JOULE

After James Prescott Joule, English (1818-1889). The joule is a unit of energy.

7. KELVIN

After William Thomson Lord Kelvin, British (1824-1907). The kelvin is the unit of absolute temperature. Thus, absolute zero is zero kelvin, symbolized by 0 K. And water, which boils at 212°F or 100°C., boils also at 373.15 K.

8. NEWTON

After Sir Isaac Newton, English (1642-1727). The newton is a unit of force. Thus, 1 newton equals the force with which a mass of 101.97 grams presses downward under standard gravitational conditions on earth. And a mass of 1 kilogram presses down with a force of 9.80665 newtons.

9. OHM

After Georg Simon Ohm, German (1787-1854). The ohm is a unit of electrical resistance.

10. PASCAL

After Blaise Pascal, France (1623-1662). The pascal, like the pound per square inch, or the kilogram of force per square meter, is a unit of pressure.

11. TESLA

After Nikola Tesla, a Croatian born in what was then part of Austria-Hungary and is now in Yugoslavia. He came to the U.S. at the age of 27, became an American citizen, and lived in the U.S. the rest of his life (1856-1943). The tesla is a unit of magnetic flux density, also called magnetic induction.

12. VOLT

After Alessandro Volta, Italian (1745-1827). The volt is a unit of electrical potential difference, or electromotive force.

13. WATT

After James Watt, Scottish (1736-1819). The watt is a unit of power, also described as the time rate of energy delivery or conversion.

14. WEBER

After Wilhelm Eduard Weber, German (1804-1891). The weber is a unit of magnetic flux.

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Stony Brook Events

Saturday, March 24

Children's Theatre: "Bye, Bye Birdie," 2 and 8 p.m. today; 3 p.m. tomorrow. Stony Brook Union Auditorium. Admission, \$2; group rates avail. Call 581-1868 for information.

Sunday, March 25

Recital: Cellist Bernard Greenhouse and pianist Menahem Pressler, 8 p.m., Recital Hall Fine Arts Center. Admission: \$3.50 general public.

Monday, March 26

Harpichordist: Gustav Geonhardt, 8 p.m., Main Auditorium, Fine Arts Center. Tickets from \$2.50 to \$7. For further information call 246-5678.

BERA Voting Schedule

During the week of March 26 through March 30, voting for two new members of the BERA Executive Board will take place in accordance with the following schedule:

Mon.	Cafeteria	11:30 a.m. – 1:30 p.m.
Tue.	Cafeteria	11:30 a.m. – 1:30 p.m.
Wed.	Gym	8:00 a.m. – 9:00 a.m.*
Wed.	"	11:00 a.m. – 1:00 p.m.
Wed.	"	3:00 p.m. – 4:00 p.m.*
Thu.	Bank	10:00 a.m. – 2:00 p.m.
Fri.	Bank	10:00 a.m. – 3:00 p.m.

*Special hours for shift workers.

The slate of candidates includes Donald David, Georgia Irving, William Kollmer and Patricia Oster. The two candidates receiving the most votes will replace outgoing Board members Robert A. Brown and Helen Keeley. Continuing their terms of office on the Board will be Carol Beckner, Gerald Levine, Marge Stoeckel and Gail Williams.

Voting is open to all employees of BNL, AUI, DOE, and permanent on-site employers (SAGA Foods, Bankers Trust, Physical Review, etc.).

An Evening Of French Music

On Tuesday, April 3, *Le Cercle Francais de BNL* will present Elizabeth Palmedo (soprano), Dorothy Lee (flute), and Ann Jupp (piano) in an evening of French music. The concert will take place in Berkner Hall at 8 p.m. All members of the BNL community are cordially invited; those who are not members of the French Group will be asked for a donation of \$3.

All three musicians are well-known to local audiences. Elizabeth Palmedo, after-graduation from the New England Con-



Elizabeth Palmedo

servatory of Music, studied in Paris for two years with Pierre Bernac, the renowned interpreter of the music of Francis Poulenc. She made her debut in Carnegie Recital Hall in 1976, and has performed extensively on the East Coast, making a specialty of trios. Dorothy Lee was a pupil of Frances Blaisdell, Murray Panitz, and Samuel Baron. She was principal flutist with the Chicago Civic Orchestra, and has also played in the Metropolitan Opera Orchestra and the Bolshoi Opera Orchestra, under the batons of Eric Leinsdorf, Sixten Erling, and James Conlon. At present, she is a member of the Suffolk Symphony. Ann Jupp, a Wellesley Graduate, has performed in Town Hall, and is active locally as a performer and teacher.

The music to be performed ranges chronologically from Paesello to Poulenc, and in addition to a number of songs, will include the Poulenc Sonata for Flute and Piano. This evening will provide an opportunity to join the Palmedo-Lee-Jupp Trio in a delightful exploration of a part of the musical repertory that is not performed as frequently as it deserves to be.

Arrivals & Departures

Arrivals

Mohamad A. Azarm	Nuclear Energy
Anne M. Corr	Fiscal
Kathleen P. Hauser	Nuclear Energy
Michael D. Kelly	Physics
Jose A. Mendez	Plant Engrg.
Kim M. Mohanty	Accelerator

Departures

Gregory G. Galdi	Nuclear Energy
Yukio Noda	Physics
John M. Virgilio	Medical

BROOKHAVEN BULLETIN

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CREF Values

July	\$41.03	August	\$42.17
September	41.86	October	38.18
November	38.80	December	39.44
January	40.90		
	February		\$39.47

Tune In!

An article catastrophic health insurance coverage published in Barron's Financial Weekly (March 12) quotes a spokesman for the Health Insurance Association of America as follows: "In 1975, two out of every five (major medical) group plans had \$250,000 coverage. Now, nearly all have major medical. . . that is unlimited in coverage with \$500 or 1,000 deductible on it. Most people, about 150 million - have catastrophic coverage these days." (Emphasis added).

As I understand it, BNL's major medical has a maximum coverage per person of \$100,000 for a lifetime, replaceable at a rate of not more than \$1,000 per year if it is used. That hardly qualifies as catastrophic coverage. Is the quoted spokesman exaggerating, or is BNL's coverage now so poor compared to that available to most large groups? If the latter is true, isn't it time BNL corrected the matter?

Answer:

I can neither confirm nor refute the statements in the article to which you refer. However, before jumping to the conclusion that AUI's group medical insurance is poor, it is necessary to compare apples to apples.

AUI provides medical insurance coverage that pays the full cost of a semiprivate hospital room for up to 365 days and for all necessary services and supplies during confinement. Many plans still pay 90 or 180 days maximum and, even then, do not pay full costs.

Therefore it is more accurate to compare AUI's major medical coverage to other plans that provide equal basic coverage; i.e., 365 days full hospital coverage, \$250 x-ray and laboratory tests, and basic surgical. None of these are chargeable to the major medical lifetime benefit.

With 365 days hospital coverage, the probability of a person experiencing the full use of the \$100,000 lifetime maximum is remote. For example, the two largest claims experienced in the last few years were \$70,000 and \$100,000 each. The charge against major medical in one was \$19,000 and the other \$29,000.

In our surveys, which are frequent, we find that AUI's group medical insurance plan provides as good or better coverage to its employees than the vast majority of existing plans. The fact that AUI provides free coverage to all employees, their eligible dependents, and retirees is another plus factor.

—Joseph S. Washburne, Manager
Personnel and Labor Relations

Cooking Exchange

Spring has arrived - can summer be far behind?

On Wednesday, March 28, fresh seafood, one of Long Island's greatest natural resources, will be explored with new twists to old standby recipes such as crab crepes, clam chowder and bluefish.

Cooking Exchange meetings take place at the Recreation Building from 12:30 to 2:30 p.m. Admission is 75¢, and 25¢ per child will pay for babysitting. Hopefully, our 'famous' cookbook will be ready to go on sale. Bring along your \$3.50 for each copy you want to buy.

Mountain And Canoe Club In Florida



Members of BNL's Mountain and Canoe Club (above) on a recent canoe trip up Florida's Gulf Coast by way of the Everglades. The six member group included Anne and David Crowther, Bob Krasny, Dhruba and Chris Ghimiray and Ralph Tuthill. They completed the almost 65-mile course through the Ponce de Leon Bay and down the Joe River in a five day trip.

—photo by Ralph Tuthill

Golf - 1979

With this year's golfing season almost upon us, it's time to prepare for BNL Golf League activities. To get things started, there will be an organizational meeting in the Recreation Building on Friday, April 6, at 5:00 p.m.

Veterans of the league as well as new people are invited to attend. To be eligible for membership, one must be an employee, a retired employee, or a spouse of either, with a desire to play golf and willing to part with \$5.00 for the registration fee.

The deadline for membership is April 10. Questions regarding the activity may be addressed to Bob Mills (President, Ext. 3470 or 2006) or Marshall Bull (Treasurer, Ext. 2366).

New York Train Trip

The Hospitality Committee is planning a group railroad trip to the city on Wednesday, April 4. Departure will be at 8:28 a.m. from the Patchogue LIRR station. Round-trip fare for adults is \$2.45, children under six years ride free.

Reserve a ticket by sending your fare through the U.S. mail to P.O. Box 322, Upton, New York 11973, no later than Thursday, November 29. Make checks payable to "Brookhaven National Laboratory." Your tickets will be given to you on the train. Refunds will be made only if cancellations are received by the Friday preceding the scheduled trip.

Volleyball

Division A

On March 12, the Diamonds shone over Family Affair: 15-9, 15-10, 8-15. No Names over Nuclods: 15-13, 15-2, 13-15. Oceanography beat Lookin' Good: 15-1, 15-8, 15-3. Nuts & Bolts over the Popovers: 15-7, 14-16, 15-8.

Standings

Oceanography	6-0
No Names	5-1
Nuclods	4-2
Nuts & Bolts	4-2
Diamonds	2-4
Family Affair	1-5
Lookin' Good	1-5
Popovers	1-5

Division B

LeMufs shone over Medical: 15-5, 15-7, 1-15. Balls & Strikes took all three from the Wisa's: 15-6, 15-6, 15-9. Leftovers swept the Nads: 15-12, 15-17, 15-9.

Standings

Leftovers	5-1
Balls & Strikes	3-0
LeMufs	2-1
Medical	1-2
Nads	1-2
Wisa's	0-3

Employees' League

On March 14, the Spikers took over Cool Tools: 21-8, 21-15, 22-20. Bumps swept Toga: 21-4, 21-16, 21-14. Atom Spikers vs. Phoenix: POSTPONED.

Standings

Bumps	17	4	.810
Spikers	14	7	.667
Toga	13	8	.619
Phoenix	9	9	.500
Cool Tools	5	16	.238
Atom Spikers	2	16	.111

Mountain Club

A meeting will be held on Thursday, March 29 at 7:30 p.m. in the North room of the Center. Pictures of the Everglades canoe trip will be shown and there will be a discussion of spring trips. Among the proposals is a hike along the Connetquot River; canoe trips on Carmens River, Delaware River and Pine Creek; camping on Fire Island; caving and rock climbing.

Cafeteria Menu

Week Ending March 30, 1979

Monday, March 26

Tomato vegetable soup	(cup)	.30
	(bowl)	.40
Vegetable omelet & fr. fr.		1.25
Grilled ham steak & 1 veg.		1.45
Hot Deli - Pastrami	(on bread)	1.20
	(on roll)	1.30

Tuesday, March 27

Mulligatawny soup	(cup)	.30
	(bowl)	.40
Meatloaf & hash browns		1.30
Macaroni & cheese & 1 veg.		1.15
Hot Deli - Corned beef	(on bread)	1.30
	(on roll)	1.40

Wednesday, March 28

Pepper pot soup w/spaetzle	(cup)	.40
	(bowl)	.50
Tuna noodle casserole		1.25
Southern fried chicken w/corn fritters		1.35
Hot Deli - Veal pattie & peppers hero		1.30

Thursday, March 29

Chicken noodle soup	(cup)	.30
	(bowl)	.40
Pork & cabbage crisp		1.35
Salisbury steak & 1 veg.		1.25
Hot Deli - Baked Virginia ham	(on bread)	1.30
	(on roll)	1.40

Friday, March 30

Manhattan clam chowder	(cup)	.40
	(bowl)	.50
Fried seafood platter w/fr. fr.		1.87 + tax
Beef stew on rice		1.40
Hot Deli - Sandwich steak	(on bread)	1.30
	(on roll)	1.40

Bowling

Pink League

Marge Stoeckel's new formula is paying off - she bowled 184/174/169 for a series of 527 giving her team a 5-2 win over the Lickety Splits.

The only Lickety Split to give the Pinsplitters any competition was Pat Castleman who not only picked up the 1-5-9-10 split but bowled a 165 and had a 417 series.

The No Names had three high single games: Ellie Kristiansen 192, Pat Jencius 164, Pat Lebitski 160. Blake's Bellyaches had three high games of their own: Barbara Cochran 177, Fran Briening 170, Carol Beckner 165.

Red League

A great night of bowling on lanes 31-32. The Freon Loaders won 11-0 over the Dynomites in three close games. Total pinfall was 3074-3031 and the Dynomites only had four men. J. Kelczewski grossed 667, J. Fortunato 647, and F. Stahman 638. The Designers split 7-4 with the Anachems. C. Zavesky grossed 663, T. Prach 629, and E. Sperry 603. R. Wilson had a 220. The Sandbaggers took the 76'ers 7-4. R. Larsen had a 208, J. Morris 204, and C. Bohnen-

Handicraft Classes

Parents interested in registering their children in handicraft classes are asked to call Nelly Winik, Ext. 3072.

Tentative plans are to hold the classes each Wednesday afternoon from 4:30 to 5:30 in the Recreation Building.

The Bicycling Season

The month of April has a number of tours by outside bicycle clubs which are open to BNLers. The first of these is the April Fools ride sponsored by the AYH. It leaves Modell's Shopping Center on Jericho Tpke. and Larkfield Rd., Commack, promptly at 9 a.m., April 1, and is about 40 miles.

The Suffolk Bicycle Riders Assoc. is running a week-long tour of the Virginia section of Bike Centennial, about 400 miles, during the week of April 12-20.

On Sunday, April 22, the AYH and others are staging the annual 5-Boro Bike Tour, a 36.5 mile romp through all the boroughs of NYC including Staten Island, with the full cooperation of the NYC police. Bike trains from Babylon and Huntington will be available. Five to ten thousand riders are expected.

On April 29, the perennial favorite Riverhead run will take place starting in Riverhead at 9 a.m., to Shelter Island and return, a distance of 65 miles.

Coming up June 10 is the BNL Spring Race. This year protective head gear will be required of all entrants. The best helmets are those with a rigid plastic outer shell and hard foam liner, and are fairly expensive (about \$35.). If you want to gamble on an easy spill, less protection is available at a cheaper price (around \$10.) in the form of the traditional strap helmet. If you expect to invite guests such as summer students to the race, let them know now about the helmet requirement.

For additional info, contact Gerry Morgan, Ext. 4841.

R/C Aircraft Club

The initial meeting of the Radio-Controlled Model Aircraft Club will be held Wednesday, March 28 at noon in Room C, Berkner Hall. All persons interested in model aircraft are urged to attend to help formulate club policy. Anyone who is interested but unable to attend the meeting may contact Bob Larson, Ext. 4656 or Jim Durnan, Ext. 2485.

Runners' Meeting

The Roadrunners' Club will hold an important safety meeting on Wednesday, March 28 at noon in Conference Room, Bldg. 318. The meeting will be to present and discuss guidelines proposed by the club for safe on-site running. Participation is encouraged since these club guidelines will affect all runners.

Following the safety meeting, a spring race committee meeting is planned. All those interested in planning and/or officiating in the races scheduled for May 20 are invited.

blusch 200 with 618 gross. This Isa Team only managed 3 in a match with the Sparks. W. Kollmer had a 201. The Old Timers had a postponement and the Trouble Shooters bowled unopposed.

Green League

The Old Timers II still in first place, could only come up with three as the Cosmos took eight. For the Cosmos, A. Almsy had a 220. The Pinball Wizards started out with a bang taking the first two games but lost their wind as the Blue Jays took the last game. For the Pinball Wizards, J. Spraggins had a 200, M. Israel 204, and R. Eggert 209. The Sparks took This Isa Team for eight. The Dyno-Mites lost eleven to the Freon Loaders. The Trouble Shooters had a postponement, but bowled for score.

Purple & White League

The league was in good form this week with a record number of 200 games. Bill Cahill had high game with a 245, Al Pinelli 210/217/185-612 series, Gene Hassell 217, Ken Riker 207, Joe Mayeski 201, Bob Jones 201/202. For the ladies, Joyce Pinelli bowled a 207, Caryl MacDougall 206, Lil Cahill 200, Maryjane Gillette 196, Pat Manzella 190.

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.

Each week, the Personnel Office lists new personnel placement requisitions. The purpose of these listings is, first, to provide open placement information on all nonscientific 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, as indicated below. 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.

LABORATORY RECRUITMENT: Opportunity for present Laboratory employees.

939. LABORATORY CUSTODIAN (4 positions) - Plant Engineering Division.

940. LABORER (4 positions) - Temporary to 9/30/79. Plant Engineering Division.

944. SECRETARY - AAS degree or equivalent experience. Excellent stenographic and typing skills are required. Must have flexibility to perform diverse responsibilities. Legal experience is highly desirable. Directors Office.

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

941. HEALTH PHYSICS ASSOCIATE - M.S. in health or radiologic physics or equivalent experience in high radiation exposure control. Will assist with radiation safety program in Accelerator Department. Safety and Environmental Protection Division.

942. MECHANICAL OR ELECTRO-MECHANICAL TECHNICIAN (3 positions) - Requires AAS or equivalent with knowledge of the proper use of tools and the ability to assemble large components carefully. Experience with cryogenic devices and/or vacuum leak detectors desirable. Will be involved with the assembly, operation and maintenance of cryogenic refrigerators and associated systems. Occasional shift work. Accelerator Department, ISABELLE Project.

943. TOUR WORKER (one position) - Part-time (2 days a week) April 19 through November 23. Must have excellent communications skills in order to meet and speak to large groups. General familiarity with the Laboratory's history, research programs, and physical plant highly desirable. Will serve as guide for public tours of Laboratory. Public Relations Office, Director's Office.

Autos & Auto Supplies

8-TRACK TAPE - plus FM stereo, under dash deck w/ fast forward, eject, fine tuning, anti-theft mount. \$45. Ext. 4701, 271-2877.

TIRES - (2) J78-15 w/w Dayton deluxe, under 100 mi, on Chrysler rims. Cost \$64, asking \$50 ea. John, Ext. 4089.

74 COMET - 2 dr, 6 cyl, p/s, a/t, new tires, low mileage, excel cond, economical to run. \$1950. 283-6338 after 4.

71 GTO - a/t, 400-4 bbl, mags, 8-track player. \$1000. Steve, 499-8377.

67 INT SCOUT - excel cond, plus parts car & metal top. \$1500. Ext. 4417, 924-3338.

RIM - Toyota 12" w/Dunlop w/w tire, for Corolla 1200. \$5. Brian, Ext. 4121.

68 OLDS 442 CONV - good cond. \$500. Ext. 3075, after 5 pm AT6-0505.

8' CAMPER CAP - insulated & paneled w/insert incl 2 bunks, table, sink, stove & ice box, all self-contained. \$700 or best offer. 929-8105.

69 FORD LTD WAGON - good running cond. \$400. Neil, Ext. 2023.

74 DATSUN 710 - 4 dr, a/c, a/t, AM/FM, snows, good cond. \$2000. Jerry, Ext. 3302, 281-3405 nights.

70 FORD WAGON - p/s, a/c, needs some work. \$275. Tom, 325-1033.

TIRE - brand new 165x13" w/4-hole rim. \$15. Dick, Ext. 7635.

71 CHEVY PICKUP - ¾ ton camper special, ps/pb, a/t, new tires, Emron paint. Tony, Ext. 2023.

TIRE - (1) GR78-14 Uniroyal snow, \$15; Philco in-dash AM pushbutton radio, \$15. Chris, Ext. 3919, 929-4310 after 6.

72 DATSUN 510 - 50,000 mi, needs some work, a/t. \$500. Ext. 3937.

PARTS FOR 58-61 MGA - rebuilt eng & carbs, new windows, top, much more. 473-1873 after 6.

69 BMW 2002 - good cond, high mileage. \$2300. 286-0497.

75 FORD ELITE - 43,000 mi, fully equipped, posi, extra snows, excel cond, orig owner. \$3200. Ext. 4301.

58 CORVETTE - some custom work, must see. Asking \$4700. 281-0804.

CLASS III HITCH - never used, purchased for 1973 GMC van. Ext. 2309, 473-9180.

77 PLYMOUTH FURY SPORT - a/c, AM/FM stereo 8-track, wire wheels, 18 mpg w/air, must sell, p/b, bkts, must see. \$4600. 588-4703, 265-0590.

69 DODGE WAGON - 318 eng, good cond, rebuilt trans, new brakes & other. George, Ext. 2674.

72 VOLVO - excel cond. Stanley, 281-7159.

74 CHEVY MALIBU WAGON - ps/pb, a/c, new brakes, tires. Asking \$2600. 981-3415 evs.

75 WAGONEER JEEP - 8 cyl, quadramatic, a/c, ps/pb, AM/FM, 37,000 mi, excel. \$4700. 878-4474.

69 CADILLAC - Coupe de Ville, AM/FM stereo, p/seats & windows, steel radials, vinyl top, new disc brakes. \$875. 744-6362.

1 CHEVY VEGA RIM - 13" w/very good tire. \$15. 331-2779.

76 VW RABBIT - manual, 2 dr, a/c, AM/FM stereo, excel cond. \$3000 firm, immediate. Ext. 3576, 331-2988.

75 BUICK ELECTRA - white w/blue corduroy int, excel cond. \$4000 or best offer. Mike, 727-8929 after 6.

73 YAMAHA 250 - excel cond, 12,000 mi, many extras. \$475. Tim, 722-4861.

73 DATSUN 240Z - 4 spd, AM/FM, new int. \$3500 firm. Ext. 4679.

68 CHEVY BELAIR WAGON - std shift, clean, orig owner. \$300. 475-6293 after 5.

68 MUSTANG - V8, a/t, p/s, excel running cond, needs minor work. \$200. 727-7304.

79 TORINO STA WAGON - 302 eng, good second car. 878-2134 after 5.

72 CAPRI - 4 cyl, 4 spd, AM radio, 8-track tape deck, good second car. Asking \$875. Ext. 4021, 473-3693.

TIRES - 4 steel belted radials, mounted on Chevy 4-bolt rims, 2 excel, 2 snows, \$100; 1971-73 Vega hood, \$25. Sue, Ext. 2050, 475-5834.

71 SCOUT - 3 spd, 2 w/d, AM/FM 8-track, needs work, excel for parts. \$400. 286-0654.

71 VOLVO - rebuilt eng, carbs, new trans, exhaust sys. \$1000. Steve, 585-3340.

73 CHEVY PICKUP - 4 w/d, utility body, a/t, ps/pb, AM/FM, CB, much more, w/11 ½' Amerigo truck camper, self contained. \$8000. Paul, Ext. 2023, 727-1464.

72 WINDOW VAN - Dodge Maxi, a/t, p/b, 58,000, insulated, paneled, carpeted, mint cond, extras. \$3100. Sue, Ext. 2670, 728-9408.

72 CHEVY BLAZER - 307 ci, part time 4 w/d, p/s, excel running cond. \$3200. 281-6365.

74 TOYOTA CELICA - 4 spd, AM radio, rear defogger, new batt, carb, exhaust, 5 new radials, 72,000 mi, good running cond. \$1400. Ext. 4445.

69 BUICK LE SABRE - good transp, 4 dr, white, 8 cyl 300. \$350. Brehm, 744-8567 after 6.

UNIROYAL TIRE - steel belted radial PRG, FR78-15, brand new. \$30. Alan, Ext. 2252.

2 APPLIANCE MAG WHEELS - 14x6, w/F78-14" Firestone tires. \$50. Rip, Ext. 4672.

Boats & Marine Supplies

15' OLYMPIC FINN - \$650. Juliette, Ext. 3803 Mon, Tues, Wed.

7' DINGHY - Sportyak, unsinkable, w/motor mount, oars & rub rail. \$125. B. Dryden, Ext. 4728, 728-2468.

16' WOOD SKIFF - nice lines, used 1 season, 25 hp Evinrude, extras. \$800. Neil, 286-3509.

24' SAILBOAT - fiberglass, twin keel Tylercrafft, sleeps 4, galley, enclosed head, main, working jib & lg Genoa, extras. \$2500. Ext. 3039, 744-2549.

31' ULRICHSON - FB, sleeps 6, DF, CB, full canvas, many extras; 283 hp Gray marine, rebuilt 1977, inc new manifold, exhaust risers; good family cruiser. 479-1989.

18' SAILBOAT - Sailstar Explorer, fiberglass, cutty, anchor & rode, main & jib, cbd, outboard, Holsclaw trailer. \$1800. Steve, Ext. 4480, 821-0705.

14' WOOD/FIBERGLASS BOAT - 1969, trailer, good cond. \$150. John, Ext. 4724, 588-7224.

26' PACEMAKER 1971 - fiberglass, 10 hrs on eng, FR WC, \$8500; 7' rowing dinghy, fiberglass, 1 yr, \$180. Ext. 4666.

17' CRUISERS INC 1973 - 65 hp Johnson, Cox trailer, elec winch, excel. Asking \$3000. 281-0804.

Miscellaneous

BEDRM SET - triple dresser, chest, 2 night tables, 2 mirrors, queen size headboard, very good. Asking \$250. 281-0804.

AB DICK OFFSET PRESS - model 360-11x17, shoot delivery, reasonably priced, excel cond. R. Smith, 727-4079, 727-9759.

DIN RM TABLE - parson style, burl finish, cubed base, brand new. Reg \$500, \$400. 281-0843.

BRASS FIREPLACE SCREEN - \$22; 14k gold jewelry, wide selection, reasonable. 363-7032.

8 MM MOVIE EDITOR - Baia reviewer, \$8; Bell & Howell 8 mm movie camera & case, \$5; oil burner movie light, \$3; blk & chrome smoke stand, \$3. 281-8592.

SWIMMING POOL - 15'x20' oval, 4' deep, w/filter. Only \$100. Karen, Ext. 4293, 281-8016.

SPEAKERS - Criterion 3 way, like new, walnut cabinets. \$75. Tom, 369-2151 after 8:30 pm.

MARKSMAN TARGET - practice air pistol, \$10; super sling shot, \$2. Connie, Ext. 2263.

TV GAME - Magnavox Odyssey 200, brand new, never used, best offer. 744-7587.

HORSE CARRIAGE WHEELS - 2, antique, excel cond. \$150/pr. Tom, 325-1033.

WELSH SPRINGER PUPS - reasonable, 2 males, AKC reg, Champion sire, pointed dam, fine pet quality, excel disposition. 286-8051.

FREE - 4'x24' pool, you dismantle, all access incl. Bob, Ext. 3309, 289-1568 after 6.

GARDEN WAY CART - new, unused, 20% off list price. R. Bergoffen, Ext. 4417, 286-8140.

24' SHASTA TRAILER 1977 - sleeps 8, bunk house, self-cont, full bath, excel cond. \$5100. 475-6837.

GOLF CLUBS - Spaulding, 2 woods, 3 irons, putter, bag, good cond. \$50 firm. Ext. 4241.

RCA RECORD PLAYER - \$15; Braaford record player-radio, Monacor sm tape recorder, \$10 ea; Auto-vac, new, \$5; 12-lb blk AMF bowling ball & bag, \$5. 878-1471.

SLATE TOP TABLES - coffee & end, \$100/pr; china closet, \$35. 281-0804.

HIGH CHAIR - crib, 20" bike, excel cond; furn, dog grooming supplies (low cost). Arnold S., Ext. 7772.

BROILER - Farberware open hearth broiler & rotisserie, used once. \$20. JU4-6019.

UPRIGHT FREEZER - \$65; stereo cabinet/bar, \$100. Steve, 499-8377.

TANKS - 10 & 15 gal, w/slate bottom, some access, \$10 & \$15; TV table, \$3. Ext. 4172.

CURLER/STYLER - Gillette, new, \$10; baby tour a bed, \$10; baby bouncer, \$7. Susan, Ext. 4207.

TYPEWRITER - IBM (office) Executive, good cond. \$200. 589-6151 after 5.

DEEP WELL PUMP - ½ hp Westinghouse motor, Deming pump. \$45. Palais, Ext. 2913, 698-0576.

FLOOR POLISHER - Singer rug cleaning; Bradford stereo phono. 736-2511 after 5:30 pm or weekends.

ANTIQUÉ DRESSERS - maple dbl bed, colonial upholstered rocker, piano bench, asstd chairs, tables. 744-0843, 821-1278.

METAL DESK - formica top, \$25; swivel chair, cloth seat, \$40; recliner, \$50. Julie, Ext. 2942, 929-6460.

COLOR TV - Westinghouse console, 23", works, handsome early Am cabinet. \$50. 589-3269.

KENMORE PORTABLE DISHWASHER - \$25. Ext. 3736, 286-1169.

SCHWINN 26" BICYCLES - 1 yr old, men's & ladies', 3 spd, speedometer, rack. \$65 ea. 475-6293 after 5.

CLEATS - new, McGreggor, boy's football metal tipped spikes, size 7, \$15; shoulder pads, Spaulding, boy's football, protect your kid today, \$10. Bill, Ext. 4100.

UPRIGHT FREEZER - 16 cu ft; microwave oven; 2 brown wardrobes. Lydia, 475-7500 daily & Fri eve.

SPRING SALE - asstd games, microscope, walkie talkie, radio AM/FM-CB, asstd rocket kits, radio control units, pocket calculator, 2 prs hockey skates, Polaroid camera; pocket Instamatic #20. Mary, Ext. 4132.

TYPEWRITER - Remington portable w/case, working cond. \$10. 331-2779.

BEADED BELLS - beautifully handcrafted, as favors, gifts, ornaments, \$2 ea; office typewriter, Royal pica, \$25. K. Fuchel, Ext. 4116.

REFRIG/FREEZER - 17 cu ft, door storage, sliding bin butter compartment, not frost-free. \$50. Ext. 3650, 269-9175.

AQUARIUM - compl 20-gal set-up, deluxe wooden tank, hood, all access incl stand, never used. \$70. 732-1298.

ICE BOX - s/s sink & 12 gal water tank for RV, \$90 or best offer; Sears metal lathe, great for sm things, swing up to 6" round. \$75. S. Norton, Ext. 2050, 475-5834.

CHROME & GLASS TABLES - 1 cocktail, 2 end, \$60; etagere, \$60; chrome arc lamp, \$50. F. Mignone, 281-9504.

IMPORTED CEILING FIXTURE - w/chrysal teardrop prisms, \$75 for quick sale; Waterford crystal stemware (Lismore), 4 sizes, 42 pcs. Arbeit, 928-5714.

FIREPLACE ACCESS - tri-fold screen, 42" log hoop, \$15 ea; convect-heater w/blower, \$20; very good cond. 369-2504 after 6.

SHUFFLEBOARD - 19'6", weights, wax or use 2" thick top for butcher block projects, best offer. 727-5527.

REFRIG - United 22 cu ft. \$125. Sue, 286-0407.

ACCORDION - "Crucianelli," made in Italy; Skutt kiln, model 231-18, new; United upright freezer, approx 27 cu ft Harvest Queen. Annette, 821-0832.

VIDEO CASSETTE RECORDER - GE, never used, we won it, make offer. Tom, Ext. 4183.

ECONOMY RIDING TRACTOR - 14" plow, disc blade, good cond, sm farm tractor. \$1250. GR5-5349 after 5.

FAN 25' TRAILER 1977 - sleeps 6, bunks, a/c, pwr hitch, awning, like new. \$7500. 929-6871.

HAM SET - Kenwood TS520S w/MC50 mike, yr old, like new, \$599; Swan WM2000, \$25; Dentron doublet ant, \$10. John, 929-4450.

FOLDING FISHING SEAT - Sears, use for fishing, golf, camping, etc, good cond. \$2.50. 727-3608.

SPEAKERS - Criterion model 999, excel cond. \$150. Roy, Ext. 4613.

TURNTABLE - Philips GA-312 electronic drive, like new cond, \$110; new Shure V15 type III cartridge, \$35. Ext. 4701.

VACUUM CLEANER - Power-Kleen Two, plus 19 access, very good cond. \$25. 727-5912.

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 Sale

BELLPORT VILLAGE SOUTH - recent colonial, 4 bedrms, 2 ½ baths, L/R, D/R, eik, fam rm w/fp, full bsmt, 2-car gar, usual appl. Ext. 7730, 286-8097.

MORICHES - property, ½ acre wooded, priv beach & marina w/ramp. \$16,500, terms. 878-1912 after 6.

PORT JEFFERSON STATION - hi-ranch, 7 rms, 3 bedrms, 1 ½ baths, den w/fp, fenced ¼ acre w/slate patio. \$34,000. 928-9045.

PORT JEFFERSON STATION - 4/5 bedrm splanh, fam rm w/fp, 2 ½ baths, detached gar and ½ work-shop, lg eik, reinsulated, partially fin bsmt, new stockade fence. \$36,500. Ron, Ext. 3162, 473-6862.

CORAM - spacious, contemporary cape, 6 rms, 2-car gar, expandable attic, ¼ acre, fenced, w/w, appl. Asking mid 30's. Ext. 2249, 732-6421.

ROCKY POINT - The Tides, 70' ranch on ½ acre, 3 bedrms, 2 full baths, L/R, D/R, den w/fp, eik, oak floors, full bsmt, gar, patio, ex schools, shopping, pr beach, assumable 6% mort. Otto, Ext. 4605, 744-6482.

MASTIC BEACH - long line ranch, 2 over-size bedrms, cabinet-lined kit, formal D/R, den, full bsmt, base-board heat, ¼ acre. \$27,000. 281-5498.

COOPERSTOWN AREA - 160 acres, good road, util, bldgs, secluded. Ext. 3688.

SOUTH SETAUKET - 5 bedrms, 2-car gar, 3 baths, gas heat, central a/c, many more extras, Three Village School Dist. \$48,000. 698-1785 after 5:30.

ROCKY POINT - 2 bedrms, 2 floor house on ½ acre, 1 mi from beach, low taxes, gar. \$34,000, principals only. Ext. 2865, 744-4781 after 6.

CALVERTON - 3 bedrm ranch, oil fired heat & water, s/s, fin bsmt w/bath & kit, 1 acre prop. \$31,000. 727-9058.

BELLPORT - 3 bedrm ranch, 3 ½ yrs old, eik, L/R, 28' playroom, oil b.b heat, mudrm w/washer & dryer, 185' deep prop on quiet block. \$33,000. 286-8789.

For Rent

FARMINGVILLE - 3 bedrm ranch, furn. \$375/mo + util. 265-8827.

MILLER PLACE - 4 bedrm furn house, Feb. - Aug. Ext. 4480.

MASTIC - 6 rm house, bsmt, 3 bedrms, unfurn, avail immediately, insulated. \$350 + util, security. Ext. 3937, 286-8195.

RIVERHEAD - 2 bedrm house, gas, elec, oil not incl in rent. \$230/mo, no animals. 727-5621.

MEDFORD - 6 rm house, gar, bsmt, 2-3 bedrms, 1 ½ baths, semi-furn, 15 min to Lab. \$325/mo. Dick, Ext. 2486, 325-0681.

Wanted

BOWDITCH - *American Practical Navigator*, any single volume edition in good cond. J. Nagy, Ext. 2667, 399-2343.

WARDROBES - w/shelves, good cond, reasonable. 878-0489.

3-4 BEDRM HOUSE - South Country School Dist, prior to June 1. 286-9471 after 6.

DINGHY - 10'-12', fiberglass or alum. I.J. Muzinich, Ext. 3790.

TRAINS - Lionel & American Flyer, top money pd. Jerry, 281-5667 after 3:30.

PERRY MASON PAPERBACKS - for an invalid, will pay 50¢ ea. Ext. 4841.

OWNERS MANUAL - for 69 Pontiac Lemans, or borrow for photocopy. Ext. 2238.

CAR - 67 or newer VW bug or Volvo, any cond. 589-9103.

BASEBALL GLOVE - med size, cheap. Rose, Ext. 4430, 928-2469.

BABYSITTER - experienced, reliable, for 1 yr old, occasional sitting, Smithtown area. Ext. 4169.

APT - 1 bedrm or share house near Lab, April 1. Dan, Ext. 3289.

2 PEOPLE - to share house in Mastic Beach, ideal good student or post doc. \$140/mo. Sam, Ext. 4009 or Ext. 3753.

Car Pools

WADING RIVER - Lewin Hills, would like to start or join existing car pool. Betty, Ext. 3141.

Services