

22nd Pegram Lecture Series

James Watson Goes Beyond the Double Helix

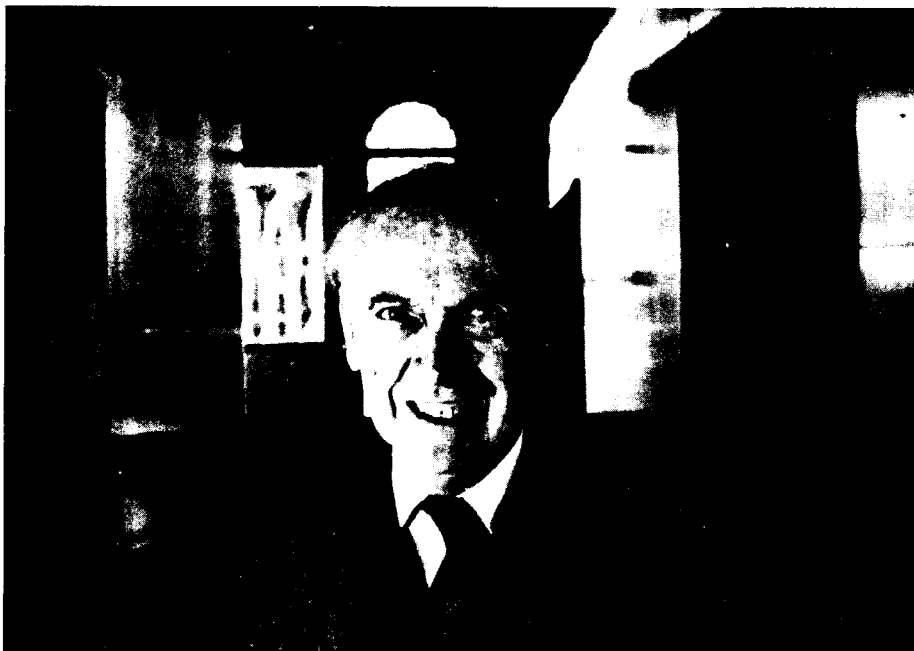
Nobel laureate James D. Watson, Director of Cold Spring Harbor Laboratory and codiscoverer of the molecular structure of DNA, the carrier of genetic information, will present a two-part Pegram Lecture series, entitled "Beyond the Double Helix," at BNL.

The lectures will be given to commemorate the 40th anniversary of the momentous discovery Watson and Francis Crick made at Cambridge University's renowned Cavendish Laboratory.

The two lectures will be presented in Berkner Hall, as follows:

- **Thursday, June 17, at 8 p.m., "The Search for the Genetic Code"** — Watson and Crick's discovery immediately initiated the search for the way in which the genetic information of DNA is used to determine the order of amino acids in proteins.

This movement was led by Crick and the late physicist George Gamow, who, with no formal training in biology, needed only the 13 years between 1953 and 1966 to find the genetic code. Highlighting letters that Gamow wrote to him during the first three years of this search,



James D. Watson

Watson will take the audience on this journey of discovery.

- **Friday, June 18, 4 p.m., "The Human Genome Project"** — For four years, 1988-92, Watson directed the National Institutes of Health's (NIH) involvement in the Human Genome Project, an ongoing, 15-year, \$3-billion effort to map and sequence all the estimated 100,000 human genes. In discussing the project's ethical implications, he will share his belief that, while the forthcoming explosion of genome knowledge will bring the power for vast improvement of the human condition, as a compassionate society, we must never forget or abandon the victims of genetic injustice.

Watson began his career as a researcher at the University of

Copenhagen in 1950, after earning two degrees in zoology: a B.S. from the University of Chicago and a Ph.D. from Indiana University. In 1951, he continued his research at Cambridge University's Cavendish Laboratory. There, he and Crick discovered that the DNA molecule has a gently twisted ladder-like structure — the double helix that carries the genetic information on heredity.

On April 25, 1953, the two scientists published their finding in the British journal *Nature*. The elegant paper, consisting of only 14 paragraphs, not only revealed the structure of the DNA molecule, but also noted that this structure suggested a possible mechanism by which genetic information can be copied.

Earlier, Maurice Wilkins and Rosalind Franklin had obtained the first

high resolution x-ray diffraction patterns of DNA, and Crick and Watson's hypothetical model provided an explanation for their data. Franklin died in 1955, and Wilkins, Crick and Watson shared the 1962 Nobel Prize in Physiology or Medicine for their parts in unraveling the double helix, which is still considered the most important biological discovery of the twentieth century.

In 1953, Watson moved to the California Institute of Technology, and, three years later, joined the faculty of Harvard University, where he taught until 1976. Meanwhile, in 1968, he became Director of Cold Spring Harbor Laboratory. In the same year, he published his best-selling scientific memoir, *The Double Helix: A Personal Account of the Discovery and Structure of DNA*.

From 1988-92, he took on a second full-time job: directing the NIH component of the Human Genome Project. He has since remained involved in dialogue about the project's ethical implications.

In addition to the Nobel Prize, Watson has received numerous awards, including the Presidential Medal of Freedom in 1977 and 18 honorary degrees.

The Trustees of Associated Universities, Inc., (AUI) established the Pegram Lecture series in 1959 to provide an opportunity for distinguished scholars to examine the interaction between science and other aspects of culture and society. Watson will be the 22nd lecturer in this series, named in memory of the late George Braxton Pegram, who played a key role in founding BNL. Pegram became one of the incorporating trustees for AUI and remained an active trustee for a decade.

No Smoking Starts Monday

Smoking will be prohibited in all Laboratory buildings and vehicles starting Monday, June 14. While smoking will be allowed in the residential units and in the smoking section of the Brookhaven Center Club, no other exceptions will be made.

BNL Lecture: Making Tritium Using Accelerators

A heavy isotope of hydrogen, tritium is an essential ingredient of high-yield nuclear weapons. However, while nuclear weapons still play a vital role in U.S. defense, recent world events have considerably reduced perceptions of the minimum number of these weapons that must be immediately available.

Traditionally, tritium has been made in reactors, using neutrons from nuclear fission. Now, however, the need for fewer nuclear weapons means less tritium is required. So another option for obtaining tritium has become viable — using accelerators.

To describe the work being done on the design of such accelerator-based technology, Gregory Van Tuyle, Deputy Head of the Advanced Technologies Division in the Department of Nuclear Energy (DNE), will give the 288th Brookhaven Lecture, on "Making Tritium Using Accelerators." Van Tuyle, who will be introduced by Sy Baron, Associate Director for Applied Programs, will give the talk on Wednesday, June 16, at 4 p.m., in Berkner Hall.

As Van Tuyle will explain, using accelerators to make tritium has several advantages. First, safety concerns are eased: no actinides, such as plutonium or uranium, are needed; there is little decay heat, so that safety systems can be simpler; and the absence of reactivity means that no Chernobyl-type accidents are possible.

Second, no high-level waste is created, an environmental plus. Third, accelerators can be sited with comparatively little opposition from the resident population.

These accelerators can also be used in other applications, such as nuclear waste transmutation, plutonium disposal, neutron spallation targets for experiments in materials testing and with medical isotopes, and making plutonium-238, which can be used to charge a power source that will last decades for deep-space missions.

The concept of a tritium-making accelerator originated at BNL, and the design was developed further at Los Alamos National Laboratory (LANL). Now, developing a prototype has become a three-lab project among LANL, Sandia National Laboratories and BNL.

As Van Tuyle will describe, a proposed high-power, kilometer-long prototype will produce a 200-milliamper beam of protons at one billion electron volts, driving them into a lattice of lead pins cooled by heavy water. Neutrons will be produced and captured in a "blanket" that surrounds the target area. The lithium-6 contained in the blanket will rapidly become tritium and helium-4. Finally, when the blanket materials are removed and heated, the tritium will be recovered.

Van Tuyle will also talk about some of the features of the accelerator and target, such as the beam expander, which was developed by DNE staff at



Gregory Van Tuyle is shown with a model of the proposed prototype tritium-making accelerator.

BNL's Radiation Effects Facility some four years ago. This enables the beam to be enlarged to 1.5 square meters at the point of impact on the target, distributing the heat load and cooling needs.

As Van Tuyle will relate, the BNL team has overcome some engineering difficulties encountered in developing the lithium-based target design. These include designing the low-temperature cooling systems and very large heat exchangers, and evaluating how to prevent the acci-

dental release of by-products such as mercury. A major part of the project that BNL is concerned with is safety, and Van Tuyle will explain the shift to passive safety systems, which are extremely unlikely to fail.

Ongoing experimental work, Van Tuyle will discuss, is concentrated on investigating the impact of proton bombardment on lead and aluminum, which is used extensively in the target structure.

Van Tuyle will conclude by describing some of the accelerator's other applications. One of these, for instance, is the PHOENIX Concept, developed by Van Tuyle and coworkers, which could reduce the need for long-term retention of high-level nuclear waste in underground repositories.

Gregory Van Tuyle joined DNE in 1978 after completing a Ph.D. in nuclear engineering at the University of Michigan, where he had received his B.S.E. in 1975 and M.S.E. in 1976, both also in nuclear engineering. Promoted from an assistant to asso-

(continued on page 2)

Volunteers Needed

Male volunteers, ages 25 to 45 and in good health, are needed to participate in brain- and heart-imaging studies being conducted by BNL. A fee will be paid; supervisory approval is required. For more information, call Naomi Pappas, Ext. 2694.

In Memoriam

J.B. Horner (Desmond) Kuper, who retired in 1974 as Assistant to the Director, died on June 8 of complications after a fall. He was 83.



Kuper's long association with the Lab predated its official start in January 1947: He became a consultant to Columbia University in the planning phases for BNL, in October 1946. With a 1938 Ph.D. in physics from Princeton University, he joined the Lab as Head of the Electronics and Instrumentation Division in February 1947. Among other work in the division, he designed equipment for the 16 background radiation monitoring stations both on and off site.

In 1948, Kuper became chairman of the new Instrumentation and Health Physics Department, a position he retained until 1970. During this time, he also chaired Lab committees on radiation safety and critical experiments safety.

In 1970, Kuper led an environmental sciences study group for two years, when he was named Assistant to the Director, until his official retirement in December 1974. His ties to the Lab remained strong, however, and he continued as a consultant until 1991.

Kuper held several patents on early electronic technologies and was an enthusiastic ham radio operator. Among his many scientific occupations at various times, he was on the board of editors of the *Proceedings of the Institute of Radio Engineers* and chaired the New York Governor's Advisory Committee on Atomic Energy. He was a fellow of the American Physical Society.

Veljko Radeka, who heads the Instrumentation Division, said of Kuper, "As founder of his department, one of his principal contributions was to create a stimulating climate, which attracted some outstanding individuals such as Willy Higinbotham, Robert Chase, Robert Sugarman, Laurie Miller, Robert Spinrad and others. He was also, for many years, Editor of *The Review of Scientific Instruments*, one of the premier journals in the field of scientific instrumentation. On a per-

sonal note, when I came to BNL, he made me feel at home and, in his quiet way, provided support and encouragement in my work."

An appreciation of Kuper's work for the Lab was also voiced by former BNL Director Maurice Goldhaber, now AUI Distinguished Scientist emeritus, who commented, "The then Instrumentation and Health Physics Department, under Desmond's leadership, became one of the very important Lab departments, developing state-of-the-art instrumentation and helping all other scientific departments in a crucial way."

The special place in BNL history held by Kuper and his late wife, Mariette, who was acclaimed as the first BNL employee, was expressed by the AUI Board of Trustees in 1975. As guests of honor at a special dinner, the Kupers were presented with commemorative plates. Their role in BNL's early days was related by Nobel laureate I. I. Rabi and William Watson, two founding trustees, and Leland Haworth, past BNL Director and past AUI President, referred to the Kupers as an "underlying strength" of the Lab.

J.B. Horner Kuper, who was a resident of Setauket, had moved to Ann Arbor, Michigan, two years ago. He is survived by a son, George H. Kuper, and a stepdaughter, Marina von Neumann Whitman, both of Ann Arbor, and four grandchildren.

A funeral service will be held tomorrow, Saturday, June 12, at 2 p.m., at the Caroline Church of Brookhaven, Strongs Neck Road, Setauket.

BNL Lecture (cont'd)

ciate nuclear engineer in 1980, Van Tuyle was named Nuclear Engineer in 1983.

From 1985 until 1992, Van Tuyle led the Advanced Reactor Safety Analysis Group. His present position as Deputy Head of the Advanced Technologies Division and Manager of the Accelerator Production of Tritium Program dates from 1992. He is a member of the American Nuclear Society and the American Society of Mechanical Engineers.

After the lecture, all are invited to join the lecturer for discussion and refreshments. To accompany him to dinner at a restaurant off site, call Juanita Giesler, Ext. 2380.

To Our Summer Visitors — A Welcome and a Warning

Many summer students and visiting scientists arrived on site earlier this week. Welcome to BNL and the Long Island area!

One major attraction here is the Lab's proximity to New York City. For anyone planning to visit the city, the following should be of interest:

New York, New York. To most people, the Big Apple means Broadway shows, museums, shopping and sightseeing. But to tourists, New York City should also mean "watch out!"

BNL summer visitors who are planning a trip to New York City should learn from this true story:

A visiting scientist from Japan, who had been to the city a few times, recently took a friend from Japan there. They were window shopping, when a saleswoman from inside a store came out to chat. She knew some Japanese phrases and invited them into the store to choose a "free" souvenir T-shirt.

She then offered to put the scientist's name and a decal on the shirt that he had picked out, saying that, of course, she would have to charge him for those extras. He agreed.

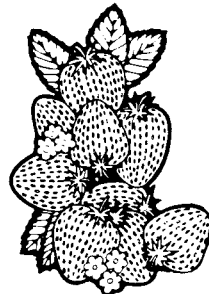
But he didn't expect a bill of \$115, which is what she told him the shirt would cost when she had finished. Don't ask why he didn't simply walk out of the store right then and there. Suffice it to say that the Japanese culture teaches different values.

Instead, he handed over his credit card. But being very upset, he didn't look carefully at the slip as he signed. It was not until he and his friend left the store that he saw the \$200 charge.

That caused them to turn around and head back into the store to complain. At that point, though, they saw some big fellows come out of the back room and walk ominously toward them. They quickly decided it was best to leave.

The lesson? Visitors, beware. New York City is well worth a visit, and many people can be trusted. But sadly, many cannot, so keep up your guard.

Picking the Berry Best For Your Health



If you're concerned about eating right, or you just need a sunny day outdoors, take heart: The 1993 pick-your-own strawberry season is under way!

The juicy red gems are hiding under leaves at many area farms, just waiting to be picked. They're a delicious way to get some of the five daily servings of fruits and vegetables that the U.S. Department of Agriculture recommends for good nutrition, says Kathleen DeMarco of the Cornell Cooperative Extension in Riverhead.

These harbingers of summer are low in calories and sodium. And they contain fiber, vitamin C, beta carotene and ellagic acid, a potential cancer-preventer.

"Picking your own is more than just saying, 'Let's go out to the country,'" DeMarco said. "It's a personal health thing now."

Knowing exactly where your fruit comes from can be reassuring, and strawberries that you pick yourself are about as fresh as they come. They're also often cheaper than those bought in a store, ranging from \$1 to \$1.50 per quart, plus your time and energy.

As if that weren't enough, this spring's cool nights and warm days were ideal for producing extremely flavorful strawberries, local farmers say. After opening last week or this weekend, most farms expect to keep picking until about July 4, if extremely warm weather doesn't accelerate ripening.

Consult the list below for locations and times for local picking places. Or, call the Extension's Tele-CUE automated message system (369-2100 in East Suffolk, 854-1450 in West Suffolk) and press 0302 for the names and hours of other pick-your-own locations. But, before you go, don't forget to call ahead, pack some water and slap on some sunscreen!

Anderson Farms: Route 58, Riverhead 727-2559 or 727-1129 — Now open from 9 a.m. to 6 p.m. weekdays, 8 a.m. to 6 p.m. weekends.

Berezny Farms: Sound Ave., Riverhead 722-3823 — Opening today for picking seven days a week, 9 a.m. to 5:30 p.m.

Condzella Farms: Route 25A, Wading River 929-4697 — Now open every day except rainy ones, 8 a.m. to 5 p.m. weekdays and Saturday, 8 a.m. to 6 p.m. Sunday.

Glover Farms: Strawberry Lane, Brookhaven 286-2226 — Now open, 7 days a week, 8 a.m. to 6 p.m.

Hodun Farms: River Road, Calverton 727-2618 — Now open, 7 days a week, 9 a.m. to 5 p.m.

Lewin Farms: 123 Sound Ave., Calverton 727-3346 — Now open, 7 days a week, 8 a.m. to 5 p.m.

Rottkamp's Fox Hollow Farm: 143 Sound Ave., Calverton 727-1786 — Opening this weekend, with picking every day except Wednesday from 9 a.m. to 4:30 p.m.

Seps Farm Stand: Route 25, East Marion 477-1583 — Opening next week, Saturday and Sunday only, from 8 a.m. to 5 p.m.

Wickham's Fruit Farm: Route 25, Cutchogue 734-6441 — Now open, Monday through Saturday only, 9 a.m. to 5 p.m.

Young's Orchard: 54 Sound Ave., Riverhead 727-5363 — Opening today, will be open Tuesday through Sunday, 8 a.m. to 6 p.m.

Better Late Than Never



It's not too late to schedule a time to donate blood during BNL's upcoming Blood Drive at the Brookhaven Center. Call Blood Drive Chair Susan Foster, Ext. 2888, to make an appointment for sometime between Wednesday, June 16, and Friday, June 18, 10 a.m. to 3 p.m.

With summer and the 4th of July weekend coming up, most people are not thinking about the community's, year-round need for donated blood. So please consider giving the gift of life to someone in medical need and donate during this blood drive.

Software Demo

On June 16, Tom Burgeron of Softdesk (formerly DCA) will be in the Computing & Communications Division seminar room, Bldg. 515, from 9 a.m. to 4:30 p.m., to demonstrate some Softdesk products for use with AutoCAD, DOS, Windows, Macintosh, DEC and SUN SPARC.

Presentations will include Autoarchitect, HVAC, Plumbing & Electrical, Facilities (database query), Structural-Designer and more. Diane and Ron Eberhard of DVM3 will also be on hand.

For reservations and an agenda, contact the Software Store, Ext. 4127.

Equipment Demo

Air Cure Technologies, an indoor-environmental engineering company, will demonstrate its latest product, which removes dust, smoke and other airborne particulates that can interfere with accurate lab results, on Thursday, June 17, 10 a.m. to 3 p.m., in the Berkner Hall lobby.

ANS Meeting

William Harris, Senior Vice President of the U.S. Council for Energy Awareness, will speak on "The Future of Nuclear Energy" at the next meeting of the Long Island section of the American Nuclear Society (ANS), on Wednesday, June 16, in the Jonas Smith Room of the Three Village Inn, in Stony Brook.

Following cocktails at 6 p.m. and dinner at 7 p.m., Robert McNair of BNL's Reactor Division will introduce the speaker at 8 p.m. For reservations, call Roz Goldberg, 929-8300, Ext. 3611, by Monday, June 14.



Pickup all next week. Personal checks & receipts from King Kullen are also very welcome. Send them to Carole Kerr, Bldg. 460.

Aerobic Dance Summer Program

The Aerobic Dance Club announces three 10-week summer programs: Monday stretch, and Tuesday and Thursday aerobic dance classes. Both sets of classes will run from 5:15 to 6:15 p.m. A mat is suggested for floor exercises.

Participants may register for any or all programs and pay the \$30 fee for each 10-week session before the first classes, to be held in the Recreation Building as follows:

- **Stretch** — Monday, June 14.
- **Aerobic Dance** — Tuesday, June 15, and Thursday, June 17.

For more information, call Pat Flood, Ext. 4853 (a.m.) or Ext. 5070 (p.m.); or Janet Sillas, Ext. 2345.

PSI Plans Social And Installation

The Upton Chapter of Professional Secretaries International (PSI) invites all to attend their Social & Installation Night on Thursday, June 17, at 6 p.m., in the Recreation Building.

The evening will feature installation of chapter officers for 1993-94, and the cost of \$8 per person includes hors d'oeuvres, wine, soda and entertainment by the Sound of A-Chord Barbershop Quartet.

R.S.V.P. by June 14 by sending checks, payable to Upton Chapter, PSI, to Susan Carlsen, Bldg. 197C. For more information, call Carlsen, Ext. 7647, or Sharon Jones, Ext. 2493.

Arrivals & Departures

Arrivals

Jason G. Farrell.....Physics
Dejun Xue.....Chemistry

Departures

This list includes all employees who have terminated from the Lab, including retirees:
Robert S. Cruz.....RHIC
Bernadette Fox.....MIS

Service Awards

The following employees celebrated their BNL service anniversaries during May 1993:

35 Years

Kenneth H. Johnson.....Plant Eng.
Eugene W. Rogers.....RHIC
Richard W. Rothe.....NSLS

30 Years

Ronald F. Peierls.....Appl Science
Helga Pirozzi.....Ph. & Gr. Arts
John H. Weinmann.....AGS

25 Years

Ollie J. Booker Jr.....Plant Eng.
Vincent E. Chiampou Jr.....AGS
Joseph A. Curtiss.....Nuc. Energy
Michael J. LeVine.....Physics
Richard C. Sautkulis.....Biology
Kenneth A. Sutter.....App. Science

20 Years

Carl R. Gardner.....Cent. Shops

10 Years

Joseph Barba Jr.....AGS
Steven J. Bubka.....AGS
Paul Callegari.....AGS
Rodney W. Chliek.....Plant Eng.
Ulises Feliciano.....Sup. & Mat'l.
Christopher F. Johnson.....Plant Eng.
Gerald L. Greenidge.....Cent. Shops
Bent Nielsen.....App. Science
Joseph W. Sanfilippo.....AGS
Carl J. Schopfer.....Saf. & Env. Prot.

Russian Art From the Underground



In the former Soviet Union, artist Natalia Zaharova was forbidden to exhibit her paintings, including "Peasant's Barn," shown here. Now this work is one of some 30 paintings by 13 similarly restricted contemporary Russian artists that will be shown by the BERA Art Society on June 21-23, in Room B, Berkner Hall. Exhibit hours are: Monday, June 21, 11:30 a.m. to 1:30 p.m. and 5 to 7:30 p.m., both with refreshments; Tuesday, June 22, and Wednesday, June 23, 11:30 a.m. to 1:30 p.m.

BWIS Meeting, Cocktail Party

Summer students, other visitors and members of the BNL community are invited to attend two upcoming functions of Brookhaven Women in Science (BWIS):

BWIS will hold a meeting to discuss the results of its April survey asking for respondents' viewpoints on the organization. The meeting will be on Tuesday, June 15, at 5:15 p.m., in Room B, Berkner Hall. Coffee and tea will be served. BWIS's 14th annual Cocktail Party will be held on the patio of the Brookhaven Center on Thursday, June 24, from 5:15 to 7 p.m.

Hot and cold hors d'oeuvres will be served. The cost is \$5 per person, \$3 for summer students with ID. There will also be a cash bar. R.S.V.P. by June 15 to Pam Mansfield, Bldg. 515, Ext. 7286, or Lisa Tranquada, Bldg. 510E, Ext. 7731.

Cafeteria Menu

Monday, June 14	
Soup: Chicken noodle	.80/1.10
Entree: Chicken fajitas	3.45
Fitness: Steamed pasta marinara	3.20
Carvery: Pastrami sandwich	2.95
Burger: Pizza burger w/fries	2.65
Grill: Reuben platter	2.95
Taster's Bar: Pizza bagels	(ea.) 1.50
Tuesday, June 15	
Soup: Cream of mushroom	.80/1.10
Entree: Spaghetti w/meatballs	3.45
Fitness: Baked fish w/lemon & tomato	3.55
Carvery: Hot roast beef sandwich au jus	2.45
Burger: Cordon Bleu burger	2.45
Grill: Western omelette w/fries	2.35
Taster's Bar: Wing dings	(oz.) .25
Wednesday, June 16	
Soup: Bavarian lentil	.80/1.10
Entree: Boiled knockwurst & sauerkraut	3.55
Fitness: Tomato & broccoli casserole	3.25
Carvery: Baked Virginia ham sandwich	2.95
Burger: Double cheeseburger	2.90
Grill: Italian cheesesteak w/fries	2.95
Taster's Bar: Wings of fire	(oz.) .25
Thursday, June 17	
Soup: Cream of spinach	.80/1.10
Entree: Italian steak pizzola	3.75
Fitness: Tarragon lime chicken	3.50
Carvery: Corned beef sandwich	2.95
Burger: Cheddar cheeseburger w/fries	2.35
Grill: Ham & broccoli cheese melt	2.75
Taster's Bar: Corn fritters	(ea.) .50
Friday, June 18	
Soup: New England clam chowder	.80/1.10
Entree: New Orleans Cajun catfish	3.65
Fitness: Display cooking special entree	
Carvery: Hot roast turkey sandwich	2.95
Burger: Vegetable burger w/salad	2.95
Grill: Fried shrimp boat	3.25
Taster's Bar: Fried mozzarella	(oz.) .25

Summer Program For Children

BERA's summer recreation program for children features swimming and tennis lessons for children of Lab employees.

Swimming Classes

Children will be scheduled for one lesson each week for a total of eight lessons. American Red Cross certificates will be awarded to children who qualify.

- **Time** - Monday through Friday, 2:15 to 3:15 p.m., starting July 6, ending August 27. Children should arrive by 2 p.m.
- **Fee** - \$40 per child at registration, plus \$2 daily admission fee or present season ticket.

- **Safety Requirement** - Each child must be at least 42 inches tall.

- **Registration** - Pick up applications in Personnel, Bldg. 185, 8:30 a.m. to 5 p.m.; the BERA Sales Office, Berkner Hall, 9 a.m. to 2 p.m.; or the swimming pool during scheduled hours. Mail or deliver applications with registration fees, checks payable to BERA, to the Recreation Office, Bldg. 185, by Friday, June 18.

Tennis Program

Provides basic tennis instruction.

- **Time** - Monday through Thursday, 3:15 to 4:15 p.m., starting July 12, ending August 20.
- **Fee & Registration** - None required, but children must provide their own rackets and balls, and pay a \$2 fee to play in the end-of-season tournament.

Great Adventure Tickets on Sale

Discount tickets for the 1993 season at Six Flags Great Adventure Amusement Park in New Jersey are now on sale at the BERA Sales Office in Berkner Hall. At the gate, park tickets are \$30.68 and the park-safari combo is \$31.74; BERA prices are \$20 and \$22, respectively, for a savings of \$10 and \$11 each with no waiting in line.

Tickets will be sold for only 60 days — from Monday, June 14, through Friday, August 13. Once purchased, however, they can be used for any day of the season. Great Adventure is still featuring "The Great American Scream Machine," as well as the newest "Batman" ride.

For schedule or other information, call Carolann Zebrowski at the BERA Sales Office, Ext. 3347.

Note to Employees:

Attendance at lectures, meetings and other special programs held during normal working hours is subject to supervisory concurrence.

Hospitality News

The monthly meeting of the Women's Forum, which normally meets on the third Tuesday of every month, will be held instead on Tuesday, June 22, in the Recreation Building lounge. The meeting will start promptly at 10 a.m.; please come on time.

The group, led by Marion Davis-Parzen, meets every month to discuss women's issues and to share experiences and concerns. Wives of Lab employees and guests are welcome. Bring the children, but please also bring along a toy or two.

Tennis Fun Day

The Tennis Committee has scheduled a Tennis Fun Day for Saturday, June 12, at 9 a.m. (rain date June 13, 9 a.m.) This free event is open to all Lab employees, their families, friends and Lab visitors. So bring your racket and a can of balls, and join us for a pleasurable morning of tennis.

Healthline Lecture

Testicular and Prostate Cancers

Most recently, the American Cancer Society has been recommending that men over 50 whose immediate relatives have had prostate cancer have an annual physical exam of the prostate and a blood test for prostate-specific antigen — a protein that may be at elevated levels in the blood when prostate cancer is present. The exam coupled with the blood test yields a 34 percent higher chance of early detection.

However, the latest word from the Journal of the American Medical Association is that, for most men with early prostate cancer, the best treatment may be none at all — because this cancer grows so slowly that most men with the disease die long before the tumor becomes lethal.

So what's a guy to do?

Attend the next Healthline lecture, "Update on Testicular and Prostate Cancers," which has been rescheduled for Tuesday, June 15, from noon to 1 p.m. in Berkner Hall. In a talk sponsored by the Health Promotion Program of the Occupational Medicine Clinic, urologist Wayne Waltzer will discuss the latest findings on the detection and treatment of these two cancers.

Wayne Waltzer, M.D., is a professor of urology and surgery and Vice Chairman of the Department of Urology within the School of Medicine at the State University of New York at Stony Brook. Board certified in his specialty, Waltzer performs reconstructive surgery and kidney transplants, and practices urological oncology.

To register for this lecture, complete and return the bottom portion of the Healthline flyer recently sent to all employees to: Health Promotion Specialist Mary Wood, Bldg. 490, by June 14. For more information about HPP and its Healthline lecture series, call Ext. 5923.

BROOKHAVEN BULLETIN

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Position at DOE Office

The U.S. Department of Energy's on-site Brookhaven Area Office has a full-time secretarial position available. This term position, which will run until September 30, 1993, involves filing, typing and light phone duty. Familiarity with WordPerfect 5.1 and Lotus is required, and familiarity with IBM PCs is a plus. Fax resume to Frank Ohlhorst or Liz Rosa, Ext. 3444.

Classified Advertisements

Placement Notices

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

Each week, the Personnel Division lists new placement notices. The purpose of these listings is, first, to give employees an opportunity to request consideration for themselves through Personnel, and, second, for general recruiting under open recruitment. Because of the priority policy stated above, each listing does not necessarily represent an opportunity for all people.

Except when operational needs require otherwise, positions will be open for one week after publication.

For more information, contact the Employment Manager, Ext. 2882, or call the JOBLINE, Ext. 7744 (282-7744), for a complete listing of all openings.

SCIENTIFIC RECRUITMENT - Candidates may apply directly to the department representative named.

POSTDOCTORAL RESEARCH ASSOCIATE - With strong background in surface spectroscopies and surface kinetics, to study the interactions of adsorbates with well-characterized metal and metal-oxide surfaces. Contact: Jan Hrbek, Chemistry Department.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees.

DD 0754. **SECRETARIAL POSITION** - (term appointment) Requires an AAS or equivalent, excellent communication skills and demonstrated organizational skills. Additional requirements include a thorough knowledge of office procedures, and a familiarity with both Laboratory policies and procedures and Laboratory organizational groups. WordPerfect 5.1 and DOS experience required; R:Base, IPAP and Novell experience desired. Director's Office.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

NS 0489. **ADMINISTRATIVE POSITION** - Requires an AAS in accounting or equivalent experience, and significant experience in computing applications. Knowledge of Laboratory policies and procedures, and familiarity with the IPAP/JCARS systems highly desirable. Responsibilities will include coordinating various administrative activities relative to departmental budget and reporting controls. Physics Department.

DD 0881. **CHEMISTRY ASSOCIATE POSITION** - Requires a BS in biochemistry or related field. Will assist in the development and application of radioactive tracers to the study of biochemical transformations and molecular mechanisms in the living human and animal body using positron emission tomography. Will be responsible for conducting in vivo and in vitro binding assays with radioactive compounds under development as potential imaging agents and with related radiotracers. Experience working with lab animals and radioactive isotopes is highly desirable. Chemistry Department.

DD 6438. **OFFICE SERVICES POSITION** - Requires previous experience with both computerized and manual accounts-payable systems. Will prepare and process vouchers for payment, and maintain records regarding payments. Additional duties will include filing, data entry and processing daily mail. Fiscal Division.

NS 9629. **ADMINISTRATIVE POSITION** - Requires a bachelor's degree in an appropriate field, experience in electronic document handling and excellent communication skills. Demonstrated expertise in appropriate software packages and network tools, i.e. text editing, imaging, SGML, WAIS, gopher, open api and relational databases necessary. Knowledge of TeX, BASIS Plus and experience in a UNIX environment preferred. Responsibilities will include designing computer-based systems that include authoring and retrieval functions. Technical Information Division.

NS 2719 - **TOWER LINE PERSONS** - (temporary positions) Under minimum supervision installs, repairs and maintains overhead and underground electrical distribution lines, systems, equipment, controls and related devices, ordinarily of 2300 volts and over. Duties include rigging; electrical and mechanical work incidental to the installation, maintenance and repair of equipment, wires, lines and instruments. Plant Engineering Division.

NS 2720. **ELECTRICIAN A** - (temporary position) Under minimum supervision lays out, constructs, installs, maintains, repairs and operates electrical systems, equipment, controls and related devices. Plant Engineering Division.

Motor Vehicles & Supplies

78 DATSUN 510 WAGON - \$275. Bob, Ext. 4637 or 692-8659.

66 DODGE CHARGER 383 - 4-spd., red, trophy winner, completely restored. Rick, 447-6347.

51 DODGE PICKUP - runs, some body work done, new glass, make offer. Guy, 758-6892.

YAMAHA Y2 125 - mint cond., asking \$600. Mike, 878-1617 after 4 p.m.

MOTOR - '73, 351 Ford, runs well, \$250, will demo. Tony, Ext. 7861.

TIRES - 2, McCreary Traxion snow tires, on new rims, 775-14, 4-ply nylon cord, \$50/pr. Phil, Ext. 5669.

REAR SPOILER - for '68 GTO, \$75. Ext. 2913.

TIRES - 2, P185/70SR14, on 6-lug alum. 6" wheels; 2, P245/60SR14, on 6-lug alum. 7" wheels, for Isuzu/Mazda pickup. Larry, Ext. 3506 or 281-2002.

TIRES - 2, Goodyear, P225/75R14; 2, Uniroyal P225/75R15; 1, Firestone, P215/70 14, like new, \$25 ea. Tony, 698-9274.

RIMS - 4, gold plated, 14" 4-lug, locks, center cap, \$125. Dan, Ext. 4605.

92 KAWASAKI ES-500 - garaged, 2 helmets, immaculate cond., \$2,400. John, 588-0910.

91 PONTIAC GRAND AM LE - metallic gray, fully loaded, sports pkg., tinted windows, quad-4, alum. wheels, warr., mint cond., \$9,500. Mike, Ext. 5904.

89 HONDA ACCORD DX - white, 4-dr., 5-spd., ac, am/fm cass., 48k mi., maint. record, ext. warr., \$8,000. 345-5882.

89 PLYMOUTH SUNDANCE RS - 2-dr., a/t, 19k mi., fully loaded, excel. cond. Eric, Ext. 5875.

88 VW GOLF - 4-dr. sedan, ac, sunroof, am/fm stereo tape deck, 45k mi., new battery, \$4,950 neg. Hurst, Ext. 3844.

87 CHRYSLER LEBARON - 4-dr., ac, fully loaded, \$3,950. 928-6541.

86 GRAND AM - 2-dr, 4-cyl., 5-spd., ac, sunroof, new clutch, good tires, high mi., \$1,200. Joe, Ext. 4786 or 281-7683.

85 BUICK REGAL - 45k mi., new tires, brakes, good cond., \$2,500. Tom, 929-3147 after 6 p.m.

84 CHEVY PICKUP - needs motor, new trans. & tires, no rust, w/cap, \$800. Paul, 924-8143.

82 SUZUKI GS 1100 MOTORCYCLE - new battery & tires, excel. cond., adult driven, \$1,700. Ext. 4574.

82 YAMAHA YZ-490 DIRT BIKE - rebuilt eng., new clutch, 2 hrs. on motor, asking \$400. 821-2854, leave message.

81 FORD FAIRMONT - 6-cyl., a/t, ac, p/s, new exhaust, tune-up, two-tone blue, needs paint work, \$550. John, Ext. 2769.

81 PLYMOUTH CHAMP - h/b, white, 4-cyl., m/t, well maint., all receipts, \$650. Ernie, Ext. 7632 or Tim, 281-7873.

80 GMC PICKUP - 1/2-ton, 4wd, p/s, p/b, a/t, ladder rack, \$2,500. Dean, Ext. 4677.

80 HONDA CIVIC - h/b, 69k mi., runs well, body rust, \$250. 473-1578.

79 VOLVO 264GL - 4-dr., a/t, V-6, ac, runs well, needs some T.L.C., \$750 neg. Jim, 929-0752.

79 MUSTANG - straight 6-cyl., sunroof, Benz am/fm cass., runs, looks good, comes w/fully equipped parts car, \$1,100 neg. David, 473-9678.

79 CHEVROLET CAPRICE - 4-dr., a/t, p/s, p/b, ac, radio, new trans., radiator, exhaust, tires, & brakes, wheel aligned, v.g. cond. Ext. 5337 or 821-4318.

78 DODGE DIPLOMAT - 318 V-8, 4-dr., a/t, 100-k mi., rebt. trans., new rad., needs rear-end work, \$150. Don, Ext. 7237 or 744-2921 after 5:30 p.m.

78 CHRYSLER CORDOBA - a/t, p/s, p/b, new tires & starter, \$375. Chris, Ext. 4185 or 698-9116.

77 MGB - convertible, runs well, needs body work, \$750. Sue, Ext. 2888.

76 PLYMOUTH SATELITE - 318 engine, white, runs well, \$2,500 neg. Teri, 924-4227.

POP-UP TENT TRAILER - sleeps four, \$250. Ernie, Ext. 7632.

POP-UP CAMPER - for use or build as utility trailer, new tires. Joe, 924-7476.

TIRES - 2, P195/75R15, excel. cond., \$25 ea.; rims, 3, Jeep, mounted w/spare tires, excel. cond., best offer. Joe, Ext. 3120.

ENGINE & TRANS. - 305 cid, 350 trans., runs well, can demo, '76 Suburban parts. Ken, 289-8212.

REPAIR MANUAL - Chilton's, for Honda Accord, '73-'88. \$5. Ext. 2831.

CAR COVER - heavy, waterproof, for subcompact car, almost new, was \$120, now \$35; Universal fender flares for truck, \$25/4. Joann, 472-6742.

PARTS - '86 Camaro. Rob, Ext. 4661 or 395-4521.

TRUCK TIRES - 4, 30"x8.5", B.F. Goodrich, all terrain, \$60/all. Edwards, Ext. 4207.

TIRES - Bridgestone Potenza RE93, size 215-50 VR15, less than 1k mi., \$300/4. John, Ext. 7671.

CAR STEREO - am/fm, Delco, w/4 spkrs., from '84 Olds, never used, \$20. Ext. 5079.

Boats & Marine Supplies

22' FORMULA - 1984, 260 Mercruiser, 2 axle Shoreline trailer, all options, mint cond., \$13,200. Ken, 473-7460.

22' MARSHALL CATBOAT - freshwater-cooled Yanmar diesel, VHF radio, depth sounder, Danforth compass, head. Gordon, 477-2269.

22' STAR-CLASS 6210 SAILBOAT - all glass, double hull, 2 sets sails, sail cover, 3-h.p. Yamaha ob., trailer, measurement cert. Bernice, 472-1735.

14' CATAMARAN - AMF Trac 14 race rigging, excel. cond., w/trailer, \$1,100. George, 265-1276.

WINDSURFER - New Wave 355, 190 L., good begin./int. board, comp. w/rig, \$375. Joe, Ext. 4139.

OUTBOARD - 85-h.p. Chrysler, needs work, best offer. Joe, 929-5911.

Furnishings & Appliances

BEDS - twin, Craftmatic, 3 yrs. old, v.g. cond., must sell, \$50/ea. or best offer. Joann, 472-6742.

BEDROOM SET - 4-piece, walnut, excel. cond., \$125. 475-1852 after 6 p.m.

CEILING FAN - w/heater & light, still in box, \$50. Ext. 5079.

COUCH - bed, air chair, good cond., \$50. Paul, 924-8143.

The Brookhaven Bulletin is printed on paper containing at least 50 percent recycled materials, with 10 percent post-consumer waste.



Ads Lost — Please Resubmit

There's no easy way to say this, so we'll just say it straight out: The classified ads submitted for the June 11 issue of the Bulletin have been lost. They were in a specially marked Bulletin envelope when they disappeared from the Red Ball pickup point in the Public Affairs Office, Bldg. 134.

Unfortunately, these ads were lost before they could be typeset, so there was no way to reconstruct their contents. The ads we are publishing this week are those left over from last week.

Anyone who had submitted an ad for this week is asked to resubmit it. The Bulletin will run all classified ads submitted for the June 18 issue with the exception of ads for real estate sales and rentals and for services. Real estate ads are scheduled to run in the Bulletin only on the second and fourth week of the month, so they will be held for the June 25 issue. Services ads will run as scheduled, in the first issue of next month on July 9.

To allow as much time for resubmittals as possible, the classified ad deadline has been moved to noon on Monday, June 14 for the June 18 issue only.

We are very sorry for any inconvenience that this loss may have caused anyone, and we have taken steps to ensure that it should not happen again.

BEDROOM - rock maple, 2 dressers, 2 nightstands, headboard, footboard, mirror, \$400 neg. 929-4182.

COUCH - Colonial, w/slipcover; 2 pine end tables; 19" Zenith TV, good cond., \$100/all. 765-3789.

DESK - Scandinavian, 3 drawers, \$20; brown leather hassock, \$10; window shades, 3, woven brown & blue, \$30. 929-5742.

FOLDING BED - w/mattress, twin size, excel. cond., \$25. Cai, Ext. 3507.

FREEZER - Kenmore, upright, 12 cu. ft., like new, \$100. 924-3476 after 5 p.m.

FREEZER - Gibson, large, reasonable. 363-7032.

FUTON - queen, w/frame, folds to couch, twin trundle bed set, papasan couch, chairs, stool. Louise, 821-4399.

HIGH RISER - like new, headboard, \$80. 878-2421.

HIGH RISER - new mattresses, 2 dressers, 30" wide, 4 drawers; recliner, mauve, corduroy; glider, green/white. Sharon, Ext. 3995.

HUTCH - country pine, new cond., orig. \$3,000, sell for \$350. S. Saxon, 744-3842.

MICROWAVE OVEN - Sharp Carousel II, \$50. AI, 821-1720.

MOVING SALE - desk, \$30; chest, \$20; 6 chairs, \$30; lamps, \$5; living room, sofa, loveseat, chair, end tables, coffee table, \$600. 345-5882.

REFRIGERATOR - freezer, Kenmore; self-cleaning electric range, almond, 4 yrs. old, Dunkirk boiler, 4 yrs. old, prices neg. 929-5521.

SOFA - 5-piece, sectional, blue, good cond., \$200. 751-1884.

TABLE - dining room, 42" x 62", walnut, Formica top, 2 leaves, excel., w/6 chairs, seat cushions, need recovering, \$125. Betty, Ext. 3164.

TABLE - 6 chairs; queen-size bed; TV; bedroom set; couch; more. Udi, Ext. 7585.

TRASH COMPACTOR - KitchenAid, KCS-200, white, fits under cabinet, v.g. cond., \$30. Ext. 3103 or 728-0992.

WASHER - 4 mos. old, under warranty, \$170. Ext. 4522.

WASHER & DRYER - Hotpoint washer, heavy-duty, large-capacity, like new; Kenmore dryer, runs, \$75/ea. or \$150/both. Mark, Ext. 4125.

WATER BED - king-size, 4-poster, mattress liner, heater, solid pine, \$180. Mike, 246-5070.

Tools, House & Garden

CHAIN SAW - 15", electric splitting maul, wedge, 100' ext. cord, used once, \$90/all. Mike, 246-5070.

DOOR - external, 32" x 80", solid wood core, w/glass pane, 20" x 35", \$25. Denise, Ext. 5873.

DOOR - folding, 7 sections, 44" wide, new, still in box, \$45. Ext. 7699 or 821-1435.

LAWN MOWER - Sunbeam, electric, double insulated, w/bag, \$100. 281-7849 eves.

MAPLE TREES - Japanese red, \$10-\$45+; Sears riding tractor, 12-h.p., 4' deck, snow blower, battery start, tow trailer. Mauro, 265-6542.

MINT - fresh, organically grown, still in ground. Linda, 924-7476.

PLOW - 8', electric, hydraulic, power, w/lights, fits full size pickup, \$600. Guy, 758-6892.

POLE LAMPS - complete; 7-gallon fish tank, w/stand. Bill, Ext. 4075.

POOL EQUIPMENT - SS ladder, vacuum head, pole, 36' hose; 4'x18' pool pillow. Ext. 4924 or 286-6858.

POOL FILTER - Hayward turbo flow, Marathan 200DE, 3/4-h.p., used 1 season, like new. Fred, 744-1958.

TOOLBOX - for pickup bed, large. Teri, 924-4227.

WINDOW - Andersen, slide, w/screen, 36"x36", vinyl complete, like new, \$125; stainless exhaust fan, 30", Nutone, \$35. Ext. 2474 or 475-7454.

Sports, Hobbies, & Pets

BASEBALL CARDS - 1993 Topps HC 825-card sets; Series II wax boxes, vendor 500-card bricks. Leo, Ext. 2952.

CHOW CHOW PUPS - 2 white, 2 red, AKC, 7 1/2 wks., \$300/ea. 399-3381 after 6 p.m.

DACHSHUND - stud, papers, 3 yrs. old, champion lines, nice temperament, brown. 821-2854, leave message.

DRUMS - twin toms, excel. cond., asking \$125. 363-7032.

EXERCISE MACHINE - Alpine tracker, like new, \$200. Teri, 924-4227.

GOLF CLUBS - women's beginner, MacGregor irons 3-9, woods 1,2,3, new grips, putter, bag, \$100. Donna, Ext. 4599.

LIZARDS - 2, Anoles, 10-gallon tank, hot rock, \$20. Mike, 246-5070.

PIANO - electric, Yamaha Clarinova CLP-560, 88 keys, 1418 x 467 x 804mm, 56kg, mint cond., w/bench, \$2,000 neg. Shige, Ext. 3889.

SCOOTER - Rascal, electric, new battery charger, \$700; pedal exerciser, \$5. 281-7844 eves.

SKIER/ROWER - Lifestyle X-C, \$130. AI, 821-1720.

SNEAKERS - woman's, Nike Air Pegasus, 2 pairs, worn twice, size 6, orig. \$65/ea., sell for \$30/ea. Elaine, Ext. 3876 or 286-8720.

TELESCOPE - w/tripod, 2.4" refractor, 60mm, F12, needs eyepiece. Sharon, Ext. 3995.

TELESCOPE - Celestron C8, televue plossl eye lenses, motorized polar mount, tripod, Barlow lens, filters, case, extras, \$800. Tp, 434-9345.

TENNIS RACKET - \$10; patio umbrella, \$25; twin bed, \$20; exercise bike, \$30; lobster trap, \$18; Workbench chairs, \$20. Kathy, 744-2203.

Audio, Video & Computer

COMPUTER - AT compatible, high resolution color display, expanded memory coprocessor, wide carriage printer, \$900. Ext. 3922.

COMPUTER - XT compatible, turbo, 30MB, hard drive, 2 floppy drives, monochrome display, Epson printer, \$150. 345-5882.

COMPUTER - Apple, monitor, keyboard, mouse, hard disk. Ext. 7585 or 654-1862.

COMPUTER - Apple II GS, w/Chinook CT-40 HD, 3 1/2" & 5 1/4" floppies, Appleworks, lots of kid's software, \$750. Peter, Ext. 2824 or 727-3218.

COMPUTER - Apex Plus, GW Basic software, IBM color graphics, dual 3 1/2" disk drives, games, no keyboard, make offer. 821-2854.

PRINTERS - TRS80 DWP210 w/landscape carriage, DMP410 wide carriage, Star SG10, best offers. Bill, Ext. 2807.

TURNTABLE - AR 77XB, excel., \$25; Harmon Kardon, 3-head cassette deck, \$20. 722-3905.

TV - Sharp, 25", color, no remote, excel. cond., \$135. Mike, 246-5070.

TV - Sharp, 21", color, '89. Victor, Ext. 3823.

TV CONTROL CENTERS - 2, watch 2 TVs while recording diff. channels, \$25/both. Ext. 5079.

VIDEO DIGITIZER - for Mac, w/high resolution b&w camera, software incl., \$500; Mac Plus 4MB RAM, 20MB HD, \$500. Ext. 7699 or 821-1635.

Miscellaneous

CRIB - oak, matching dresser, nursery monitor, infant swing, twin stroller, changing table, horse, sassy seat, yard toys. Barbara, 744-9802.

MAPLE SYRUP - from Vermont. Peter, Ext. 7687 or 744-1112.

MICHELIN RED GUIDE - to Italy, '93, \$12. Raka, Ext. 4929 or 286-6858.

Car Pools

PLAINVIEW - Exit 43 LIE, 4th driver needed. Elliott, Ext. 2495 or Barbara, Ext. 5175.

STONY BROOK - or near Rt. 347 or Nichols Rd. Ext. 5080 or Ext. 4192.

Wanted

BIRD FEEDER POLE MOVED - will pay \$20. Ext. 2733 or 878-8491.

BOAT - Duranautic, aluminum, 13-14'. Joe, Ext. 2898.

BRIDGE PLAYERS - to start a BERA Bridge Club. Willem, Ext. 7778 or 924-6129.

CAMARO - Nova or Firebird, 67-81, any cond. for parts. Roy, 727-6714.

GARAGE - near BNL to store two sea kayaks, willing to rent. Jim, Ext. 5160.

HOUSE TO SIT - free, experienced, caring, any period after June 8. J.Allentuck, Ext. 2412.

HOUSE/APT. TO RENT - 2-3 bdrm., prefer plentiful storage, w/d. Morris, Ext. 4192.

HOUSE TO RENT - 3 bdrm., visiting scientist, 7/27-8/16, possibly near Lab, North Shore. Ext. 7699 or 821-1435.

MARINE FISH - looking for healthy, inexpensive tropical saltwater fish. Jim, Ext. 4617.

MINERALS - mineral collections, old mineral books, any language. Plotkin, 798-2887.

NORDIC TRACK - cross-country ski machine. Bob, Ext. 2104 or 928-3863.

PARTNER - for 30' sailboat in Mt. Sinai Harbor. Ext. 7699 or 821-1435.

PEOPLE TO STUDY INDIA - for classes in Indian culture, history, Hindi, Urdu, reading, writing, call 821-1963 or 744-5895.

PC MONITOR - color, 1024x768 resol., VGA or SVGA, 14-15" screen, multisynch. Eric, Ext. 7290.

RECORDS - 45 rpm or 33 1/3 lp, polkas, any year, rock & roll, '55-'65. Frank, Ext. 3120 or 727-5096.

ROD STEWART - need two tickets! 9/22 or 9/23 at Jones Beach Theatre. Sue, Ext. 4931.