

Cronin And Fitch Win Nobel Prize For Experiment At AGS

James W. Cronin and Val L. Fitch have won the 1980 Nobel Prize in physics for experimental work done at Brookhaven's Alternating Gradient Synchrotron.

Cronin, Professor of Physics at University of Chicago, and Fitch, Professor of Physics at Princeton, led a research group from Princeton in 1963, which discovered a violation of a fundamental symmetry principle in the decay of neutral K-mesons. According to this symmetry principle, called Time Reversal, the laws of physics are the same if time were to flow in the opposite direction. (Actually, they measured a violation of CP invariance, which is equivalent to a violation of time reversal symmetry.)

There are two kinds of neutral K-mesons - the long-lived, K_L^0 , and the short-lived, K_S^0 meson. Previous experiments had shown that the K_S^0 meson decays to two π mesons. Be-

cause of the supposed time-reversal symmetry in nature, physicists reasoned that the K_L^0 meson could not decay to two π mesons.

Cronin and Fitch discovered that the K_L^0 meson did indeed decay into two π mesons. They observed 45 two π events out of 23,000 decays.

At the AGS

The research team also included James H. Christenson, a graduate student of Cronin's, and Rene Turlay, a visiting researcher from Saclay in France. The experiment was actually Christenson's doctoral thesis.

They submitted a proposal to BNL's High Energy Advisory Committee in April 1963 and a month later, the committee approved 200 hours of beam time at the AGS.

Cronin had done a previous experiment at the Cosmotron, and so they used his experimental apparatus. The

experiment was located in what is known as Inner Mongolia, a local term coined by Ken Green denoting the area inside the AGS magnet ring.

Set up time was minimal. But even then, the experiment progressed with remarkable speed, and the group had results before the end of the year.

Fitch commented on the time scale in a speech about the experiment during the AGS 20th anniversary in May this year. "The time interval between the proposal and collecting data... was amazingly short. Of course, that also represents the enthusiasm of the people that we had here to help us handle the work. We're so completely aware of the splendid cooperation from the BNL staff that made this experiment go."

He relayed a story about something that came out of the experiment. "One of my graduate students got his degree and... became an assistant

professor... and received one of the standard forms from the American Men of Science asking, 'When were you born? etc., etc., and finally, what is your special interest?' He wrote down 'CP violation in neutral K decay.' When the proof came back, it was 'carbon-phosphorus violation in neutral potassium decay.'"

Not By Accident

The point of the experiment was to set even more stringent limits on the validity of the symmetry principle. Although they set out to look for 2π meson decay, they did not expect to find it, and their results were a complete surprise.

The experiment was published in the July 27, 1964 issue of *Physical Review Letters*. Since then, a great deal of experimentation and theoretical thinking has been done by other physicists. But there is still no satisfactory theoretical explanation of the origin of CP violation.

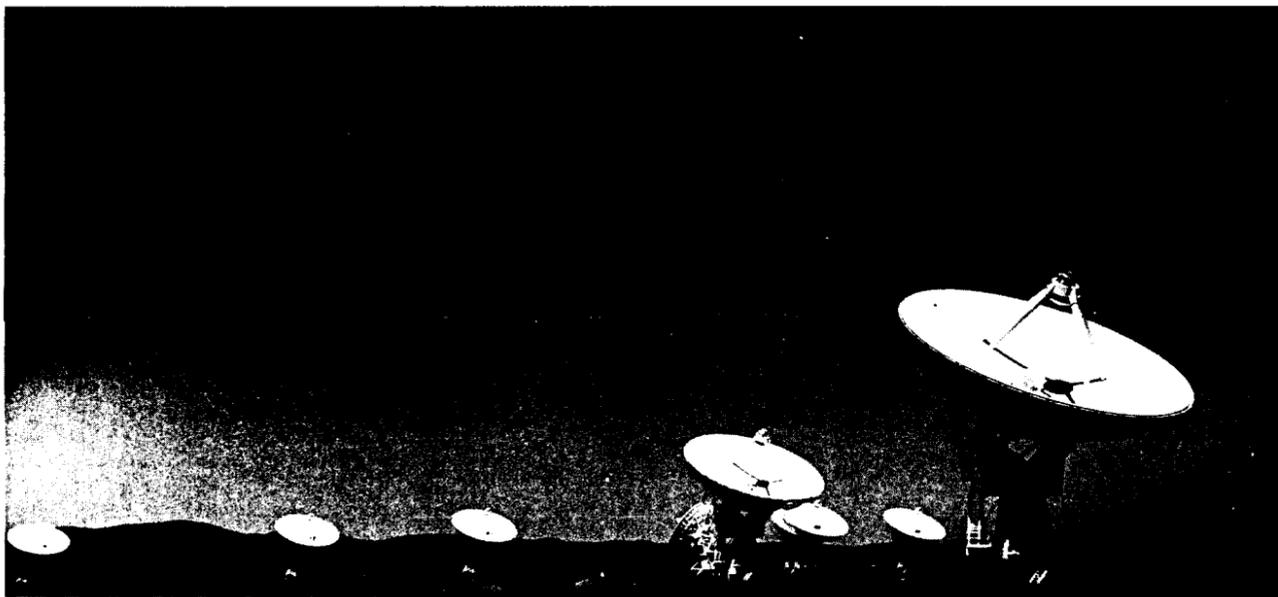
Physicists are always in search of an all-encompassing theory that explains as much of the world as possible. They presuppose simplicity and symmetry.

Cronin and Fitch discovered that in one tiny corner of the subatomic world, there is a flaw - a breakdown of one of the basic symmetry principles of nature.

Other Nobel Prizes

In addition to Cronin and Fitch, three other scientists have won the Nobel Prize in physics for work done while at Brookhaven. T.D. Lee and C.M. Yang, were prize winners in 1957 for doing theoretical work that suggested parity violation in weak interactions. S.C.C. Ting shared the prize in 1976 for his discovery of the J/psi particle with Burton Richter at SLAC.

VLA Tunes In To The Universe - Story on page 2.



'Running on Empty'

At first glance, it looks like a standard 1980 Plymouth Volare parked among all the other government vehicles in the lot behind Staff Services. But this car is unusual. Its odometer shows distances in hundredths of a mile, the accelerator pedal is connected to a vacuum gauge which is affected by pedal movements, an instrument indicates miles per gallon and another shows fuel consumption in thousandths of a gallon.

Two signs, front and back, give a clue. They identify the car as a training vehicle (those specials instruments were installed by the BNL motor pool) for a DOE-sponsored program called Driver Energy Conservation Awareness Training, or DECAT for short.

It's a new program at Brookhaven and at other government and private facilities through which DOE is encouraging energy conservation on our nation's highways. DECAT is based on a Reynolds Electric and Engineering Col, Inc. project conducted at the Nevada Test site in 1976-77 for the Department of Energy. It emphasizes what managers of large fleets as well as individual operators can do to stretch their gasoline dollars through more fuel-efficient practices without impairing or sacrificing transportation resources.

Last April, Nick Pisco, Administrative Services Supervisor in the Staff Services Division, went to Nevada to take a DECAT course for instructors in the program. He spent two and a half days learning how to save energy behind a wheel and developing his own style for teaching energy conserving techniques to drivers back at the Lab.

Initially, Pisco will teach employees who are professional drivers and those who drive frequently in their jobs.

The course packs a lot of information in a three and a half hour session. It includes a thirty minute slide presentation covering trip planning, vehicle purchase, maintenance, instrumentation, and driving skills. Then comes a behind-the-wheel segment in the Plymouth Volare where driving techniques can be practiced. The session ends with a viewing of a film "Running on Empty" and a general wrap-up discussion.

Pisco says the practical portion in the car is a most effective way to teach good driving skills. He has mapped out a 5.7 mile road course that includes driving on site and on the William Floyd Parkway. It's designed to be driven in about nine minutes and every student gets two tries.

The first class was held last week.

During the driving segment, Pisco was first behind the wheel. On his initial run, he did a classical take off on a bad driver - excessive braking, improper acceleration, weaving. His time was 8 minutes 50 seconds, 14.4 mpg. On his second run, he applied the techniques he is teaching, and with good results - 9 minutes 10 seconds, and 17.8 mpg.

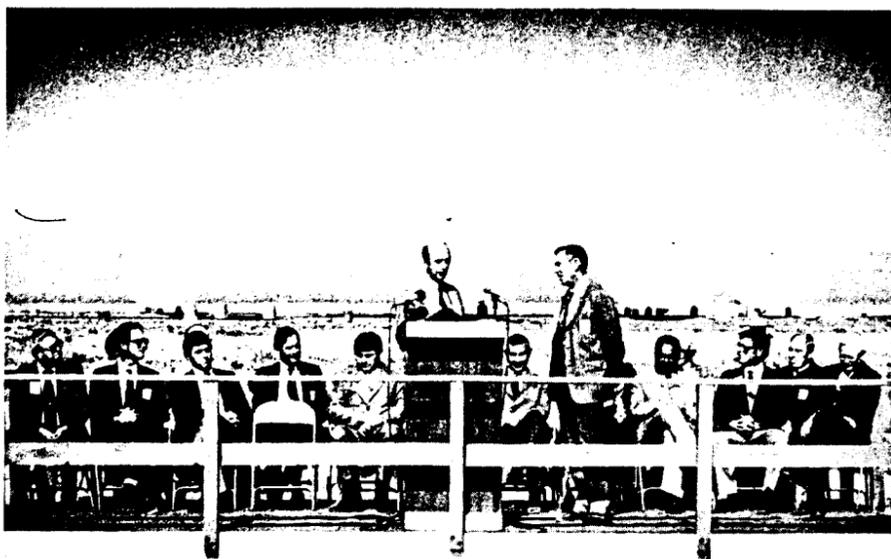
A student was next. First run - 9 minutes 6 seconds, 18 mpg. Second

run - 9 minutes 3 seconds, 20.6 mpg. Every student tried for fuel economy on the first run and did even better the second time. As Pisco says, seeing the fuel click away in thousandths of a gallon makes them very aware of how they are driving.

But even when a driver is being very conscientious, gas consumption can be affected by other factors, he adds. Wind, rain, passenger load and
(Continued on page 2)



In a new program on site, Nick Pisco, Staff Services Division, teaches drivers energy conservation awareness. Seated in a car equipped with special instruments, Pisco explains their functions to some members of his first class, (from left) Al Lorentsen and Nelson Tyler, Supply and Materiel Division, and Richard Auspaker, Safety and Environmental Protection Division.



With radiotelescopes in the background, dedication ceremonies were held last week for NRAO's Very Large Array in New Mexico. Standing are (left) Donald Langenburg, National Science Foundation Deputy Director, and David Heesch, former Director of NRAO, who early on promoted the idea of the VLA. Seated between them is Morton Roberts, Director of NRAO. On the far right is Gerald Tape, recently retired President of AUI.

VLA Dedication

On the Plains of Augustine, a remnant of an ancient lake bed between Magdalena and Datil in west central New Mexico, a powerful new instrument of science – the Very Large Array – was dedicated on October 10, 1980. It demonstrates once again the fruitfulness of the concept of AUI and the institutions, Brookhaven National Laboratory and the National Radio and Astronomical Observatory, created to provide instruments to advance science and thereby the wellbeing and stature of the United States.

The VLA consists of 27 radiotelescopes, each having precisely constructed aluminum parabolic surfaces, 25 meters in diameter, fully steerable, weighing 210 tons each.

The telescopes are arranged along three equally spaced radial arms having a "Y" array, two arms of which will be 21 kilometers (13 miles) long and the third 19 kilometers (11.8 miles) long. The telescopes are moved via a double standard-gauge railroad track to 72 stations to provide different configurations. Radio signals from space are concentrated by the parabolic dishes to receivers held at the apex of the antenna, there being four "horns" tuned to different frequency bands of interest. The signals are amplified and sent to the central control

building by waveguides, there to be sorted and analyzed to give maps of celestial objects. Each antenna (radiotelescope) is electronically linked to every other antenna in the array, forming 351 "interferometer" pairs which utilize a telescope called earth-rotation aperture synthesis to observe a distant radio source as it moves across the sky.

The construction of the VLA started in 1972 under the auspices of the National Science Foundation, preceded by design work at NRAO's facilities in Green Bank, West Virginia, carried out in 1962-63. It cost a bit over 78 million dollars and is by far the most ambitious astronomical observatory ever built.

Early results have been exciting and significant. Observations range from the sun and planets of our solar system to the most distant extra galactic objects. The temperature of the atmosphere and surface of Venus has been determined in detail. One of the most remarkable astronomical objects observed with the VLA is a double quasar associated with the radio source 0957 + 561. Evidence suggests that these images are of the same object, created by the bending of light waves and radio waves by an intervening galaxy. —R.C. Anderson

IBEW Meeting

Local 2230, I.B.E.W. will hold its regular monthly meeting on Monday, October 20, 1980, at 8 p.m. in the Knights of Columbus Hall, Railroad Ave., Patchogue. There will also be an afternoon meeting at 2 p.m. for shift workers in the Union office at 31 Oak Street, Patchogue. On the agenda will be regular business, committee reports and the President's report. **Please note date.**

Driver Training (Continued)

even a cold engine can make a difference. Still, good driving skills alone can mean an average of 10% improvement in miles per gallon.

Pisco drives a 1977 Chevy Malibu. Although he has always thought he was a good driver, when he began applying the techniques he now teaches, he went from 15 mpg to 17 mpg, a 14% improvement.

Pisco says the DECAT program is very effective. Everyone who goes through the course can help this country cut down on energy consumption – and save themselves money – just by using common sense techniques not commonly applied.

Stony Brook Events

Speaker: Earth & Space Sciences Prof. Roger Knacke, "Maya Astronomy," October 17, 7:30 p.m., 001 Earth & Space Sciences Bldg. Telescope viewing to follow, weather permitting. An Open Night in Astronomy.

Theatre: Clifford Odets' "Awake and Sing," October 17 and 18, 8 p.m., Theatre I, Fine Arts Center. Students, sr. citizens, \$2; faculty, staff, alumni, \$3; others, \$4. Information: 246-5678.

Concert: Hermann Baumann, horn, and Tashi (clarinet and strings), October 19, 3 p.m., Main Auditorium, Fine Arts Center. Part of the Fine Arts Center's Music II Series. Students, sr. citizens, \$6; others, \$12, \$10, \$8. Series tickets, \$40, \$34, \$27. Information: 246-5678.

International Folk Dancing: Every Monday, 8-10:30 p.m., Tabler Cafeteria. Students, sr. citizens, \$1; others, \$2.50. Starts October 20. Information: 935-9131.

Film: "Belle de Jour," October 21, 5, 7, 10:30 p.m., Stony Brook Union Auditorium. 25¢ with University ID, others, \$1. Tuesday Flix Series.

Speaker: Political Science Prof. Steve Brown, "What Would Happen If None of the Presidential Candidates Should Receive a Majority?" October 21, 8 p.m., 214 Old Physics.

Concert: Electronic Music featuring the Sonic Union, 8 p.m., October 23, Recital Hall, Fine Arts Center. Students, sr. citizens, \$1; others, \$2.

Concert: Frank Zappa, October 26, 7 & 11 p.m., Gym, \$8.50, \$6.50. Sponsored by Student Activities Board. Information: 246-7085.

Businesswoman Berezin To Speak

Evelyn Berezin, former president of Redactron Corporation, and now consultant to The Burroughs Corporation, will be the next speaker in the Women in Science Lecture Series. Her talk is entitled "Small Technical Businesses." Open to everyone, the lecture is on Tuesday, October 28, at noon in Room B, at Berkner Hall.

Ms. Berezin has had twenty-seven years of technical and administrative leadership in communications and data processing equipment. She was primarily responsible for organization of Redactron, and was president from its inception to the spring of 1978. Redactron now has the second largest installed base of word processing typewriters in the world, and is considered an industry leader in the development of sophisticated editing and communications systems. Redactron Corporation is a subsidiary of Burroughs Corporation.

Before forming Redactron, Evelyn Berezin was technical assistant to the president, Digitronics Corporation, and in charge of advance product and market speed commercial digital communications terminal in this country.

Following the lecture, a luncheon will be served at 1:00 p.m. in Room A. Reservations can be made by calling Gail Williams, Ext. 3338. Seating is limited.

Women In Science

The BNL Women In Science will host a wine and cheese social to introduce the recently elected officers of the organization. The social will be held at the Recreation Building on Wednesday, October 22, from 4 to 6 pm. All members and prospective members are invited to attend. For information or transportation call Harriet Fadem, Ext. 4853.

Patent Awarded

David Edwards, Jr. and William Schneider, Accelerator Department, were awarded U.S. Patent No. 4,214,473 for "Gaseous Trace Impurity Analyzer and Method." Their invention provides a simple and relatively inexpensive apparatus for measuring the content of trace impurities in gas. The apparatus does not require a specially trained operator, and it permits rapid analysis of the trace impurities.

Retiree



Marion C. Gaffga recently retired from her position as Principal Secretary in the Physics Department. She first came to the Lab in 1951, left in 1956, and returned in 1969. She and her husband Robert, who retired from the Lab last month, have relocated to Florida, where they plan to "enjoy the sunshine."

Arrivals & Departures

Arrivals

Thomas Bottiglieri.....Adm. Sys/Data Proc.
Robert J. Danowski.....Plant Engrg.
Keelin M. Fendler.....Energy & Env.
Dora B. Krimer.....Biology

Departures

Nesim Abuaf.....Nuclear Energy
George D.J. Green.....Biology
Daniel N. Eriksen.....Nuclear Energy
Juanita H. Mac Evoy.....Energy & Env.
Tsuneo Tanzawa.....Energy & Env.

Heroic Deed



BNL Firefighter, William Leigh-Manuell, has been named "Suffolk County Fireman of the Year" because of his heroic actions on January 26, 1980. Leigh-Manuell is also a volunteer fireman of the West Sayville Fire Department. While enroute to the Lab that day, he discovered a fire at a local boarding house. Without benefit of protective turnout gear or breathing apparatus, he rushed to the aid of a trapped resident and saved her life. He will be honored at the Annual Dinner-Dance of the Suffolk County Volunteer Firemen's Association tomorrow night at the Polish Hall in Riverhead.

NYC Train Trip

The Hospitality Committee is planning a group railroad trip to the city on Wednesday, October 29. Departure will be at 7:55 a.m. from the Patchogue LIRR station. Round-trip fare for adults is \$3.25, 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, October 23. 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.

Selected Reading

Nat. Rev. XXXII (20), October 3, 1980
Poland's smoking gun. L. Labedz. 1200-02 +
Nature 287 (5780), September 25, 1980
Electronic publishing: Keyboard papers. J. Redfearn. 266-67
New Sci. 87 (1220), September 27, 1980
Wind engineers save builders' blows. A. Hunt. 914-16
Sci. News 118 (13), September 27, 1980
Heart attack risk greater on Monday. 199
New Scientist 88 (1221), October 2, 1980
The perils of second-hand smoking. S. Stock. 10-13
Saturday Review 7 (14), October 1980
Can performing arts survive the unions? J. Vitullo-Martin. 36-9
American Scientist 68 (5), September-October 1980
The control of hypertension: A therapeutic breakthrough. N.M. Kaplan. 537-45

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Food Alert

Information has been received by the Department of Energy indicating a problem with the following products: mushrooms produced by United Canning Corp., North Lima, Ohio, and Four H Corp., Imlay City, Michigan, and cooked, frozen flight meals produced by Ariston Airline Catering and Supply, Wrightstown, New Jersey. The United Canning Corp. mushrooms come sliced, in 16 ounce cans coded with a sideways T, top to the left, then J9UG. The Four H Corp. mushrooms come in 16 ounce cans, coded F7-H90/L141. Affected flight meals are beef sirloin steak, Lot 80162, NSN 8970-00-165-6902, and egg omelet with ham, Lot 80165, NSN 8970-00-165-6905.

Cooking Exchange

An Oktober Fest is the theme of the next Cooking Exchange Meeting on Wednesday, October 22 at 12:30 p.m. in the Recreation Building. "The Men" (husbands or friends of members) will prepare such German dishes as Rouladen, Sauerbraten and dumplings.

The meetings are open to people affiliated with the Lab and their family members. There is a charge of \$1 per person and babysitting is provided at 25¢ per child.

For further information call Ruth Fernow, 928-8465. "Guten Appetit!"

Cafeteria Menu

Week Ending October 24, 1980

Monday, October 20

French onion soup	(cup)	.50
	(bowl)	.60
Corned beef & cabbage		1.55
Turkey brazil & rice		1.55
Hot Deli - Pepperoni, egg, onion & pepper hero	(on bread)	1.45
	(on roll)	1.55

Tuesday, October 21

Cream of spinach soup	(cup)	.50
	(bowl)	.60
Roast top round of beef w/1 veg.		1.55
Seafood quiche & 1 veg.		1.55
Hot Deli - Pastrami	(on bread)	1.55
	(on roll)	1.65

Wednesday, October 22

Chicken vegetable soup	(cup)	.50
	(bowl)	.60
Baked lasagna & 1 veg.		1.45
Swedish meatballs w/noodles		1.50
Hot Deli - Roasted fresh ham w/barbecue sauce	(on bread)	1.50
	(on roll)	1.60

Thursday, October 23

Navy bean soup	(cup)	.50
	(bowl)	.60
Roasted chicken & 1 veg.		1.55
Beef hash & 1 veg.		1.45
Hot Deli - Philadelphia style steak sandwich	(on roll)	1.60

Friday, October 24

Seafood chowder	(cup)	.55
	(bowl)	.65
Yankee pot roast & 1 veg.		1.55
Broiled fillet of fish & 1 veg.		1.45
Hot Deli - Roasted turkey breast	(on bread)	1.55
	(on roll)	1.65

Symposium



Mort Rosen

After a successful first symposium in 1977, Brookhaven hosted last week the second International Symposium on the Production and Neutralization of Negative Hydrogen Ions and Beams. Sponsored by the DOE Office of Fusion Energy, it was organized by the neutral beam development group of the Accelerator Department and chaired by Theodoros Sluyters, pictured on the left with H. Stanley Staten, DOE Project Manager. The interest in negative ion beam development has been growing rapidly in the last couple of years with its applications spreading to low and high energy accelerators. The main thrust in negative ion beam development remains the future need for higher energy beams to be injected in next generation fusion reactors.

Basketball

A sign up sheet is now posted in the gym for all new players. The season begins the first week in December. Team captains will contact those who have played before.

Bowling

Pink League

High games were bowled by Renie Rosati 176, Deb Johnson 176/482 series, Marie Grahn 172, Audrey Blake 166, Marge Stoeckel 165, Millie Connelly 163. Congrats to Maryann Larsen, a new bowler, for a game 57 pins over average. Substitutes are still needed for our league. Anyone interested please call Helen Keeley Ext. 4649.

Red League

This Isa Team won 11-0 over the Freon Loaders. R. Barberich grossed 649, F. Powers 636, J. Sauls 627, R. Marlow (203) 624. The Sandbaggers took 11 from the Phoubars. A. Dick grossed 634, E. Meier (200) 628, R. Jones 600, C. Bohnenplusch a 201 game. The Strangers won 7-4 over the Trouble Shooters with F. Pond grossing 608. The Old Timers split 5-6 with Light Source. J. Roesler had a (202) 625 gross and R. Adams (201) 624 gross. The 76'ers managed 3 against the Pinball Wizards. J. Petro grossed 625, J. Morris 619, R. Larsen

Brush-up Your Math

The Technician Tutorial Mathematics classes are holding sessions now on Wednesday and Fridays. Wednesday morning sessions (10 to 11:30) will be devoted to a review of arithmetic, the metric system and the use of calculators. Wednesday afternoon sessions (2 to 3:30) will cover basic algebra and plane geometry. Friday mornings (10 to 11:30) will be a preparatory class for college or technical mathematics.

If you have attended the classes in the past and still have your copy of Algebra II and Trigonometry by Dressler/Rich and are not using it, please either give or lend it to the class until we can obtain more copies.

There is still time to enroll in any of the three sessions. For information call LeRoy Jefferson on Wednesday or Friday from 8:30 a.m. to 5 p.m. at Ext. 2527.

Runner's Corner

Bob Moritz of Patchogue led 147 runners to the finish line in the Jack Baer 10 km run. His time of 33:02 established a new course record. Mike Bergkamp, Chemistry, who fought Moritz for the lead early in the race, held on for a 3rd place finish earning the top BNL title. In the women's race, Marylynne Caruso recorded a time of 43:56 to win top women's honors in the race. Jackie Howe (45:18) raced to the top BNL women's spot. Both Bergkamp's and Howe's name will be recorded on a plaque honoring Jack Baer.

605. The Designers won 3 in a match with the Blue Jays.

Green League

The Sparks are still in first as they took 8 from the Old Timers II. W. Kristiansen bowled a 206. The Pinball Wizards took 8 from the 76'ers. The Blue Jays took 8 from the Designers with N. Parrinello bowling a 203 and L. Jacobson 230. The Trouble Shooters could only salvage 4 from the Strangers with R. Scheidet having a 243. The Light Source split with the Old Timers. The Phoubars lost 11 to the Sandbaggers.

Purple & White League

Ed Meier rolled a new high series with games of 245/245/168-658. Gloria Brown bowled a 209 and Betty Jellet had games of 181/180 for a 512 series. Other good games were bowled by Ken Riker 210, Bob Glasmann 209, Bob Jones 208, Pat Manzella 202, Marge Belligan 192, Nancy Erickson 191, Elsie Murray 182.

Congrats to Eddie Arnold who has been elected President of the New York State Bowling Proprietors Association.

Faster Service

New, yellow envelopes for mailing medical bills to Personnel Services can now be obtained from all department and division offices. Employees are encouraged to use these envelopes when submitting their medical bills. It will help expedite the processing of medical claims.

Puppeteer At BNL

Jacques Chicoineau, a renowned puppeteer, will appear at Brookhaven on Wednesday, October 22 to present a lecture-demonstration entitled "Marionettes: An Art as Old as the World." The program, sponsored by *Le Cercle Français de BNL* will take place at Berkner Hall at 8 p.m. on October 22. A donation of \$3 (\$1.50 for students) will be requested from those who are not members of the BNL French Group.

Mr. Chicoineau's early career was as a production manager in the French pharmaceutical industry, but at the age of 39 he came to the United States to start a second career as a teacher. His activities as a puppeteer stem from his use of them as a teaching device. He has appeared with his marionettes in many states, in France, and in Switzerland.

After his lecture, which will be in French, Mr. Chicoineau will demonstrate his marionettes in a dramatized version of "The Curé of Cucugnan," adapted from Alphonse Daudet's "Letters from my Mill." Those whose French is not fluent may find it helpful to read the story beforehand.

Mountain Club

Neither rain nor sleet nor mud stayed three hearty Mountain Club members from reaching the summit of Mt. Marcy, the highest peak in New York State, recently. When the weather finally cleared, the spectacular fall foliage provided compensation for the earlier poor weather. Anyone interested in the club should attend the next meeting, tentatively scheduled for Tuesday, October 21 at 7:30 p.m. in the North room of Brookhaven Center. On the agenda are discussion of plans for the rest of the year, election of new officers and a slide show. Reminder: Annual dues should be paid to Anita Swoboda before the end of this month.

International Exchange Of Nuclear Data



The Fifth Meeting of the Nuclear Reaction Data Centers was held at Brookhaven recently. Representatives from the NEA Data Bank, Saclay, the IAEA Nuclear Data Section, Vienna, the Karlsruhe Charged Particle Group (KACHAPAG), Germany and the NBS Photonic Data Center met with members of the National Nuclear Data Center to discuss matters concerning the exchange of nuclear data. Some of the conference attend-

ees were Joseph Schmidt, IAEA, Vienna; Gail Wyant, Meeting Secretary, BNL; Hans Lemmel, IAEA, Vienna; Charles Dunford, Chairman, BNL; Sol Pearlstein, Centerhead, BNL; Tom Burrows, BNL; Everett Fuller, NBS; Nigel Tubbs, NEA, Saclay; Alyce Daly, Assistant Secretary, BNL; Peter Johnston, NEA, Saclay; and Vicki McLane, BNL.

Doug Humphrey

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.

The determination of the best-qualified candidate for available positions will be based upon education, experience and other job-related criteria. Such factors will be evaluated and measured against the demonstrable requirements of the available vacancy, as well as the Laboratory's Affirmative Action objectives.

The Laboratory is committed to a policy of Equal Opportunity in its selection and placement of personnel. Its objective is equality of opportunity in employment, training, and promotion without regard to race, color, religion, national origin, sex, age or handicap.

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.

1481. SECRETARIAL POSITION - Requires AAS in secretarial science or equivalent experience performing diverse administrative duties. Primarily responsible for making foreign and domestic travel arrangements and processing all related forms. Excellent secretarial and communications skills are necessary. Medical Department.

1482. SECRETARIAL POSITION - Requires AAS in secretarial science or equivalent experience performing diverse duties including the typing of technical reports. Ability to transcribe from a dictaphone is highly desirable. Will function as primary secretary for a large research group typing technical reports, correspondence and various administrative forms. Medical Department.

1483. GENERAL COMMUNICATIONS CLERK - Staff Services Division.

1484. CONSTRUCTION INSPECTOR (Mechanical) - Requires minimum of five years experience as a refrigeration and A/C engineer at BNL. Hands-on experience must include testing of piping systems, charging of refrigeration systems and working knowledge of HVAC. Will be responsible for monitoring outside construction contractors work in compliance with contract documents and safety requirements. Excellent communications skills are required. Plant Engineering Division.

Autos & Auto Supplies

69 ECONOLINE - "Open road style" Camper; folding table-bed, potti, gas stove, and heat, ice box, 2 batt, auto 6 cyl, many new parts. \$1,500. 281-0360.

55 STUDEBAKER - must sell, good for parts. 732-3073.

77 DODGE VAN, 6 cyl, 50,000 mi, paneled, insulated, sunroof. \$2,900. 286-2271.

66 T-BIRD - good cond, need tires. Best offer. 698-6437 eves.

73 DUSTER - 6 cyl, auto, runs good, excel cond, must sell. \$1,100. Pat. 588-8492 after 6 pm.

CARB - fits Ford 289, V8, rebuilt. \$35. Dave, Ext. 4173 or 281-6243.

NEW TIRE - F70-15 Polyglass raised letters, sell or trade. Joe Cracco, Ext. 2012 or 2005.

73 TOYOTA - pick up w/cap, auto trans. \$1,600. John, Ext. 4976 or 744-4386.

71 HONDA - 175cc, runs excel, tires, tune-up, sissy bar, 10,000 mi, 73 mpg. \$375. 588-0424.

REAR BUMPER - for 1973 Chevy pickup, step type. \$65. Beitel, Ext. 4223 or 363-2101.

79 SUZUKI - GS750E, 2,500 mi, new continental tires, drilled discs, low bars, mint cond. \$2,500. 928-2224.

77 JEEP - CJ5, manual trans, 12,000 mi, H.D. alt battery, cooling system, 6 cyl, eng, front mounted winch. \$2,995. \$1,300 below av retail. Ext. 2525.

72 IMPALA - good tires, excel cond, a/c, p/s, p/b, tinted glass. \$800. Bill, Ext. 7772 or 281-0557.

75 BUICK - Le Sabre, custom landau, am/fm 8 trk, spokes, low mi, showroom cond, must see. LeRoy, Ext. 4581.

73 DUSTER - slant 6, excel cond, low mi, good gas mi, many extras. Ext. 4304.

73 CHEVY - Caprice wgn, V8, a/c, p/s, p/b, auto, radio, good cond. \$800 or best offer. Ext. 4030.

75 CHEVY - Malibu, 4 dr, a/t, a/c, good car, 91,000 mi. \$1,950. 286-8517 after 5:45 pm.

RIMS - set of 4 stock 1977 Camaro 14"x7" w/matching wheel covers. \$40. Larry, Ext. 4445.

73 CHEVY - C20 pickup, rebuilt 350, 4 spd, w/cap, excel running. Tom, Ext. 2959.

77 FORD - Granada Gran Marquis, p/s, auto, 6 cyl, low mi. \$3,000. 289-1117.

72 PLYMOUTH - Fury, tan, 2 dr, am radio, good cond. \$600. Ext. 2914.

69 VALIANT - 4 dr, small 8 cyl, clean inside, excel cond. \$400. Joe, Ext. 7961.

74 CHEVY - Impala, mint, garaged, p/s, p/b, 75,000 orig mi, 4 extra radial tires. \$1,800. Ext. 3284 or 744-9429.

74 TRIUMPH - TR6, new engine. Ext. 2101.

RIMS - (5) 15x8 chrome spoke appliance rims for Ford 150. \$125. Lou Cannizzo, Ext. 4812.

73 CADILLAC - good cond, a/t, p/s, p/b, air. \$900. 744-6668.

68 OLDS - Cutlass, runs well, some body damage. \$150. Ext. 4119 or 751-6342.

71 VW BEETLE - good cond. \$650. Chris, Ext. 2907, weekends 286-9051.

72 PLYMOUTH - Fury, 2 dr., r/h, good cond. \$600. Ext. 2914, 286-3742 eves/wkends.

HOLLEY - 4 bbl 4160 carb. Ext. 2022 or 727-9058.

MG - Midget parts car, engine, trans., accessories. 286-2271.

VAN SEAT - stock front seat from '78 Dodge Van, green, excel cond. \$25. Andy, Ext. 2948 or 722-3168.

1971 28 FT. MOTOR HOME - 5KW Gen, Dodge engine, 413 cu, new tires, 5 beds. \$9,500. 567-6845 Lou.

56 CHRYSLER - Sedan, very nice original, whisper quiet, 15 MPG, mechanically excel, body very good. \$1,000. H. Sauter, Ext. 3783.

WHEELS & TIRES - (4) mounted western spoke wheels w/10x15 Gillette Trailrider tires, fits Bronco or Jeep, like new. \$325. 289-0413.

76 CHEVY - Blazer, 4 spd 350, new tires, shocks, like new, rust proofed. 734-7584 after 6 p.m.

69 FORD - Fairlane, good second car, needs battery. \$150. firm. 929-4173 after 6.

65 T-BIRD - Classic, power everything, 65,000 orig. mi. \$1,600. Les, Ext. 4074.

VW PARTS - doors, glass, hoods, fenders, misc. parts. Augie, Ext. 4220.

75 DODGE VAN - new drivetrain, exhaust, insulated, paneled, alt., linkage, 45,000 mi., \$2,395. Ext. 7698 or 289-8479.

76 AUDI FOX - 29,000 mi, p/s, a/c, am/fm stereo, 30 mpg. \$3,500. Mike, Ext. 4220.

71 CHEVY - Monte Carlo, am/fm, a/c, all extras, good mpg. \$900. or best offer. Ext. 2115.

1978 MIDAS - Mini Motorhome, 21', sleeps 6, 25,000 mi., 10 mpg. 298-4931 after 6. Carmen, Ext. 4776.

77 FORD LTD - 47,000 mi, excel cond, fully powered, a/c, am/fm stereo, fabric seats. \$3,300. Garfield, Ext. 2902 or 736-1673 after 5 pm.

73 PLYMOUTH - Sta. wgn, a/t, a/c, p/s, p/b, body good, runs well. Cumming, Ext. 4343, or Ext. 4347.

MOTORCYCLE BATTERY - Wisco Roughrider RB-9, 6 1/2"Hx5 1/4"Lx3 1/2"W, new still in carton, make offer. D. Vail, Ext. 7167 or 924-4058 after 5 pm.

74 HONDA - CR125, excel cond. \$450. 924-3449.

73 GRAND PRIX - Model J, p/s, p/b, a/c, am/fm stereo, 64,000 mi, excel cond. \$1,295. Jose, Ext. 2050.

70 MONTE CARLO - 350, p/s, p/b, a/t, good engine, excel stereo, headers. Joe, 265-0117.

73 DUSTER - slant 6, mechanically excel., good body, good tires, low mileage, am/fm stereo. \$1,100. Ext. 4304.

75 BUICK - custom landau, am/fm 8 trk, spokes, showroom cond., must see. Leroy, Ext. 4581 or 286-1615.

65 BUICK WILDCAT - 4 dr., good running cond. \$200. Ext. 4087 Lou.

66 FORD - Mustang, 2000 ci, 6 cyl, auto, new brakes, exhaust system, starter, carb., solenoid, voltage regulator. Interior restored, exterior good. \$1,200. 929-8105 or 929-4701.

76 CHEVY NOVA - 4 dr., a/t, p/s, excel cond. 57,000 mi. \$3,000. 281-9020.

72 CHEVY VEGA - Sta. wgn, good cond. \$400. Reed, Ext. 7731 or 924-3679 weekends.

70 FORD - Maverick, 6 cyl, good economical transp. \$400. 724-4607 eves.

DODGE 80 - Omni 024, blk, tan int., sunroof, am/fm stereo, 30+ mpg, 16,000 hwy mi., mint. \$5,750. 799-7160.

WHEELS - for Volare/Aspen. \$8. ea. Don, Ext. 7611.

76 CAPRI 11 - 4 spd, am/fm stereo cassette, a/c, Mich. tires, decor group. \$2,795. 751-2149.

70 COUGAR - a/t, p/s, 14+ mpg, hi-mileage, runs well, good tires, clean int. \$600. Avail. Nov. 7th. Kim, Ext. 4571.

66 T-BIRD - good cond, needs tires. Best for Collectors. Best offer. 698-6437 eves.

75 VEGA - good cond, new tires, battery, exhaust. \$550. 331-9349.

69 AMX - 2 seat Classic, 78,500 mi., rust proofed, mag wheels, 390 Hears shift, 4 spd, 15 mpg. Ext. 2501 or 2502.

70 VW SQUARE BACK - needs engine, body good, \$100. 878-9518 after 5 pm; 1966 VW Square back, good cond. \$300. 878-8253 after 5 pm.

67 OLDS - Cutlass, a/t, p/s, p/b, p/w, new tires, new paint, excel int., good mpg. \$575. Denise, Ext. 2456.

STUDDER SNOW TIRES - H70x15 on GM rims, w/w, bias-belted, best offer. Alyce, Ext. 2902.

75 DODGE - Swinger 6, new trans, a/t, a/c, p/s, p/b, runs well, clean, high mi. \$1,700. Tom, Ext. 3273.

76 DATSUN - B210 Hatchback, 4 new wide radials, track, mint cond, 39 mpg. \$2,925. 744-3509 eves.

69 VW - automatic trans, good cond. \$650. Chris, Ext. 2907 or weekends 286-9051.

71 PONTIAC - GT37 Hurst 3-spd. Has not been run in 2 yrs. Best offer. 744-8894, Ext. 2518.

Boats & Marine Supplies

OUTBOARD MOTOR - 3 hp Evinrude. \$150. 929-6830.

8 HP MARINER - outboard, still under warranty, used less than 10 hrs. Long shaft. \$600. Wes, Ext. 4638.

1971 HOUSEBOAT - year round living, oil heat, 220V service. \$11,000. Irene, Ext. 4039 days, 878-2663 eves.

23' KELLS SLOOP - sailaway w/3 sails, 5 1/2 hp seagull, galv. trailer, sleeps 5. \$6,000. Rich, Ext. 2501 or 924-4237.

OUTBOARD MOTOR - something you can carry. Free or cheap for a student in B.O.C.E. Ext. 3284 or 727-3608 Ed Iberger.

16' HALLCRAFT - 327 cu. in. Chevy, V-drive, boat motor & trailer. \$900. negotiable. Ext. 3050 or 734-6761 after 6 pm.

1975 SEAGULL - outboard 6 hp long shaft, excel cond. \$250. 724-2923.

Miscellaneous

LIGHTING FIXTURE - fluorescent, for kitchen, takes 40 and 32 watt circular tubes, needs rewiring. \$10. Les, Ext. 4074.

GRAND PIANO - 5'9", mahogany, refinished and re-conditioned, excel. Ron, Ext. 7667 or 751-7692.

LOUVERED JALOUSIE - glass door w/screen and storm window, 36x80, hinges lock. \$50. 473-5585.

MOVING - apt contents: waterbed, hi-rise couch, chair, lamps, tables, paintings. Art, 289-7292 after 8 pm.

ICE SKATES - size 2, black, size 3 and 5, white, \$1 per pr; size 6, black, like new, \$2. Ext. 3390 or 751-3551.

DISHWASHER - Kitchenaid, good cond, \$45; room humidifier, \$20; bathroom sink w/faucets. \$20. Frank, Ext. 2022.

SOFA - gold crushed velvet sectional type and red velvet chair, and 5 ft knight lamp. \$250. Steve, 884-1945.

TRAILER - used 4'x6' David Bradley utility trailer w/hitch and side panels. \$50. Ext. 2474.

STOVE - Tappan, drop-in elec, avocado, good working cond. \$70. 281-0804 eves.

CAR VALVE SEAT - snow fence, answering service, chicken wire fence, kitchen table, stack chairs, blue 8' couch. Kathy, Ext. 7901.

GOURMET KITCHENWARE - ring molds, steamer, cookie press, pie carrier, elec waffle iron, etc. Marian, Ext. 3552.

DINNERSET - European china service for 8 (26 pieces), almost new. \$20. 345-3177 Friday after 3 pm.

LIVING RM SET - 3 pc; couch, love seat and chair, Herculon, good cond. \$200. 878-4664.

QUARTZ HEATER - brand new, portable, low cost to operate, heats 20'x20' room. \$60. Lois, Ext. 2956 or 751-0023 eves.

HUNTING JACKET - brown canvas, size 42, lined game pouch, shell holder in pockets, excel cond. \$15. Ext. 2953.

FIREPLACE SCREEN - brass trim, black mesh curtain. \$10. Ext. 2461.

TV - 19" b&w Sylvania, plays well, solid state. \$65. Terry Wesley, Ext. 4581.

BEDROOM SET - excel cond, high quality; end table; couch magnificent hi-fi cabinet w/bar. Ext. 3596 or 821-1039.

HEATER - travel iron; roller skate, skateboard; hamburger maker, misc toys. Ext. 3027.

JACKET - leather motorcycle jacket, black, European style, size 48, like new. \$99.99 firm. Sheldon, Ext. 3354.

GAS RANGE - 1974 Caloric, used 3 yrs, storage past 3 yrs, very good cond. \$125. Larry, Ext. 4364.

SOFA - green floral print, 84" long, good cond. 483-6657 after 7:30 pm.

PEANUT MACHINES - 10¢ and 25¢ dispensers w/ heater and stand, like new. \$50. Barry, Ext. 4533.

HEATER - Hunt LP gas heater, 35,000 BTU. \$25. Bob, 727-0139.

ROCK CLIMBERS - Summit Magazine, July 63 - June 72. Dennis, Ext. 4259 or 736-2534 after 6 pm.

FREE - 6 mos old adorable male cat, excel w/children. Dan, Ext. 4605.

SKI BOOTS - men's 8 1/2, brand new LeTrappeur, black, plastic boot. \$45. Ext. 4727.

MAN'S TOPCOAT - all weather, brown, fur collar, fur lined, size 44, never worn. \$25. 878-1471.

STOVE - Better-N-Bens wood burning plus 14" stihl chain saw. Both \$400. 728-0338.

SHOT GUN - 12 ga pump, very good cond. \$85. John, Ext. 4312.

POOL - 18' round, perfect, and access. \$120. Dick, Ext. 7635 or 689-8605.

QUEEN ANNE HIGHBOY - excel mahog repro of 30's. \$500. 286-2271 eves.

SLIDING CLOSET DOORS - and hardware, 4' wide, alum storm-screen door 32" wide. Paul, Ext. 2447.

COFFEE POT - elec, \$5; slide viewer, \$3.50; hair dryer, \$5; Toss-A-Cross Game, \$5. Sue, Ext. 4207.

LADDER - 32' alum, \$40 or will swap for a 24'. Ed, Ext. 2957.

HEATER - quartz elec, used one season. \$55. Bill, Ext. 3355.

KEROSENE HEATERS - Kerosun, all models, clean efficient heat. Do it now. 757-3178 or Bob M., Ext. 2491.

RECLINER CHAIR - \$50; dining rm set, \$35; sofa, \$25. 727-9058.

CARD TABLE - 4 chairs, Leg-O-matic, blond wood, very good, \$35; Christmas tree, 6' scotch pine, easy to assemble, \$10. 234-8229.

OIL TANK - 275 gal fuel, clean, w/gauge, etc. \$50. 286-1062.

TABLETOP - drafting board 24"x36" steel edges, made by Post. \$18. Nick, Ext. 4701.

STEREO - Dynaco 35 watt amplifier, FM-tuner and pre-amp, excel cond. \$150. B. Azzara, Ext. 2050.

RECEIVER - Yamaha CR-1020 80/80W R.M.S. into 8 ohms, 0.005% T.H.D. Reg. \$660 +, asking \$425. Ext. 3170.

WELBILT RANGE - elec, 3 yrs old, gold, like new. \$150 or best offer. Diane, Ext. 2360.

TV - 16" b&w Hitachi, portable, excel cond. \$50. Rick Wilke, Ext. 7102.

REFRIG - new; dishwasher, also gas range, gas dryer; air cond, 4 d/r chairs; Mixmaster. 744-1898.

DISHWASHER - Kitchenaid, built in model. \$25. 286-1097.

ARROWS - 6.5 mm, metric magnum 31", 8 for \$125. Pete, Ext. 4812.

SNOW PLOW - 6 ft, good for Jeep or Bronco. \$175. 281-8044.

TV - b&w 12", \$25; large European made table model radio, incl short waves, antique. Best offer. 286-3742 eves, weekends.

MINI BIKE - runs good, \$75; storm and screens, assorted size, white and plain. Ext. 4547.

DISH WASHER - Carocelle countertop, no elec, no installation. \$25. Ext. 4121.

WASHER - Sears heavy duty, \$150; dryer, \$100; two love seats, \$50 ea; desk, \$50. Peter, Ext. 3695.

BICYCLE - ladies, \$10; exercizer bike, \$7; old bench saw w/blade for firewood cutting. \$20. 727-1617.

FOR ADOPTION - standard poodle, 2 yrs old, great w/children, needs loving home. 727-8139.

KITCHEN SET - brown and white formica. \$25. Toni, Ext. 2926.

CHILD'S - bed safety bars, \$8; tent 9'x9' base x6 1/2' high, \$25; auto wheels, 15" dia for two, \$8. Ext. 7772.

GOLF CLUBS - Spaulding Topflite professional, 8 irons, 4 woods and bag, excel cond. \$175. 289-0413.

FIREPLACE SCREEN - large, excel cond, \$15; Cub Scout Uniform, size 12, good cond, \$12. Jim, Ext. 3372.

CAR VALVE SEAT - snow fence; answering service; chickenwire fence, kitchen table, stack chairs, blue 8' couch. Kathy, Ext. 7901.

STEARNS & FOSTER - hi/rise bed, makes up into 2 separate single beds, mattresses incl. \$45. Ann, 475-8440.

OIL HOT WATER HEATER - Bock, one 30 and one 50 gal. Went to gas. Ed, Ext. 4188, 363-5170.

WOOD BURNING STOVE - airtight, Scandia design, logs to 26" w/circulating fan, new cond. \$100. Walt, Ext. 3256 or 286-0336.

KEROSUN HEATERS - new units. Lowest prices available. Call eves 757-3178 or Bob M., Ext. 2514.

CLARINET - Bundy Selmer w/case, excel cond. \$85 firm. Charlie, Ext. 3354 or 234-8530.

PATIO SET - like new, 48" dia table, 4 white chairs, blue umbrella w/stand. \$100. Nick, Ext. 4701.

HEAT SCREEN - antique brass glass door w/mesh curtain, fits 29-31 h x 38-42 w opening, \$50; heavy duty coal/wood grate, \$15. Bob, Ext. 4551.

FREEZER - 24 cu ft United, excel cond. \$150. Don, Ext. 3394 or 588-1367.

SOFA - traditional 90" wine velvet, 1 yr old, very good cond. \$250. Ted, Ext. 4030.

BETTER-N-B

S U P P L E M E N T

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Miscellaneous

PLAQUES - 2 sets, oriental beige, \$35 and \$30/set; king size bedspread w/2 pr matching drapes (48x64) gold/green/orange. \$35/lot. 281-8557.

ELECTRIC DESK TOP - adding machine. Add, subtract, multiply w/sub total and print out feature. \$35. Bob, Ext. 4551.

LADY'S LEATHER JACKET - dark brown, never worn, size 8. \$85. Chris, Ext. 2907.

FREE - church organization, wooden folding chairs. You pick up. Call Ext. 2340 or 475-5150 after 6 pm.

TABLE - workbench butcher block, 30x60 with trestle base. \$200. 744-5161 eves.

BABY CARRIAGE - convertible, excel cond, \$25; elec motorcycle ages 3-8, \$20; bedroom set, all wood, \$75; beautiful Grundig Majestic 5' cabinet, not working. Best offer over \$40. Carl, 281-7627 after 6 pm.

LEATHER - motorcycle jacket, black, European style, size 48, like new. \$99.99 firm. Sheldon, Ext. 3354.

TV - 16" b&w Hitachi portable, excel cond. \$50. Rick Wilke, Ext. 7102.

SNOW PLOW - 6 ft, good for Jeep or Bronco. \$175. 281-8044.

CALICO CAT - docile personality, beautiful, altered, year old, house broken. 286-1592, Sat-Tues, daytime; or after 6 pm.

PLATFORM BED - "Loftcraft" king size, walnut w/ headboard and firm foam mattress, disassembles, excel cond. \$350; table workbench maple butcher block 36x60 w/trestle base. \$200. 744-5161 eves.

BOY'S CLOTHING - soccer shoes, size 5, two slacks, size 14, two blazers. \$25 will buy the lot. Ext. 2914 weekends and eves 286-3742.

COUCH - conv queen size bed, matching chair. \$350. 698-6437 eves.

SLIDE RULE - Pickett 10", like new, never used. \$15. Dave, Ext. 4173 or 281-6248.

FIREPLACE SCREEN - cast grate, 3 piece tool set. \$30 buys all. John, Ext. 4976 or 744-4386.

DOG CAGE - knock down/assemble easily, 42"x23"x 27", near new cond. \$40 Webster, Ext. 2525.

SPINNING WHEEL - excel cond w/all working parts. \$175. 473-5585.

BABY CARRIER - Gerry Cuddler (newborn to 5 mos). \$3.50. Dennis, Ext. 4259 or 736-2534 after 6 pm.

1974 AVENGER TRAILER - 18' completely self contained, very good cond. \$2,500. 475-3632.

ARCOLOGY TEXT - large format full of futuristic urban ideas, by Paolo Soleri, \$10; Sierra Club Bulletins, 1971-1976. Andy, Ext. 2948 or 722-3168.

SINGLE MATTRESS - w/box spring, \$35; Majestic veg/fruit juicer, never used, \$80; liv rm 3 tables, 3 chairs, 1 sofa. Sold separately or as a unit, all mint cond. Ext. 2065.

BIKE LOCK - 25 lb sidewalk salt; broiler oven; drink mixer; misc curtain rods. John, Ext. 7995.

THREE PIECE - avocado sectional w/marble topped coffee table, end tables and lamps. \$200. 924-4262.

LANE HOPE CHEST - dark pine finish, cedar liner, tapestry top. \$180. 472-0739.

ELECTRONIC - console organ, Estay, very good cond, 22 keys; 40 chords, plays 7 voices, pedal volume control. An instrument - not a toy, electric toy train set (Marx) made in 1950's, complete in orig box, no track, excel cond. \$20. H. Sauter, Ext. 3783.

SONNENTO AUTO BLANKET - double bed, single control, brand new in orig box. Ext. 4959.

MOVERS MATE - 2 quilted, reversible red/blue, make great furniture, throw rug, spread, wall hanging. New \$25 ea. 473-2473.

BLACK FIREPLACE SCREENS - w/matching andirons 38"wx29" high, like new, 2 sets available. 567-8752.

HOLLY HOBBIE - twin size sheets, 2 flat, 2 fitted w/2 standard size cases. \$20/all. 744-1917.

DISHWASHER - Kitchen Aid, 13 yrs old, excel cond, under counter model. \$45. Roy, Ext. 4664 or 744-8779.

FOR SALE - (2) cemetery plots at Pinelawn. Reasonable price. 751-8223.

REFRIG - GE deluxe, no frost, 19 cu in., 2 yrs old, good cond, avocado. Price negotiable. Ext. 4959.

CAMERA - Colorburst 100 w/flash attachment, perfect cond. \$30. Ext. 2460 or 744-9822.

RAW HONEY - organic unheated, 1 qt \$4.65 and 35¢ deposit on jar; 2 qt \$9 no deposit. Hugh, Ext. 4660 or 924-3293.

BICYCLE - girl's 3 spd yellow Schwinn, 19" frame, excel cond. \$75 or best offer. Ext. 3060 or 744-4787.

AIR COND - Fedders ¾ hp, 117 v, 26.5" wide, \$40; elec range 40" GE, white, 4 burner, double oven, meat probe, \$150 you move. Ext. 4782.

ONIONS - 50 lb, \$5.50; 25 lb, \$3. Call Izzy, Ext. 3696 noon time.

BICYCLE - woman's Raleigh ten spd, \$60. Bob, Ext. 4824/4688 or 744-5098 after 6 pm.

WATER PUMP - Starite deep well, very good cond. \$55. Dave, Ext. 4173 or 281-6248.

MINI BIKES - (2). Call for info and price. Earl, 744-1429.

CAR SEAT - GM Love Toddler. \$10. Steve, Ext. 3822 or 929-6527.

TV's - b&w 19", \$50; 15", \$25; pocket instamatic camera, \$40. Ext. 2914 or 286-3742 eves/wkends.

GUITAR - acoustic 6 string w/case. Premier SD180, \$200 or best offer. Julie, Ext. 2593 or 929-6460.

SLIDE VIEWER - \$3.50; hair dryer, \$5; Toss-A-Cross game, \$5. Sue, Ext. 4267.

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

WADING RIVER - assume 8½% mortg, 10 rm Mother/Daughter, priv beach, low taxes. \$46,000. 929-8673.

MASTIC BEACH - 3 bdrm ranch, corner lot, roofed pati, pleasant location near water. Low 30's. 281-7531.

SHOREHAM - large 4 bdrms, 2½ bath colonial, wooded ½ acre lot on quiet street, 2 car garage, eik, fam rm w/fp, excel school district, low taxes, no of 25A. \$62,900. 744-4787.

BROOKHAVEN HAMLET - charming older home, So. Country Rd, 3 bdrms, window seats, 29' l/r, d/r, eik, 2 fp, screened porch, fin bsmt w/bar, new hot water system, 2 car garage, 0.6 acres, very low taxes. 8.5% mtg. 286-1056.

BELLPORT VILLAGE - 3 bdrm high ranch, l/r, f/r, den, large eik, att gar, deck, 1½ baths, short walk to Kreamer St schools. \$42,000. 286-8166.

DRUM SET - royal blue sparkle, 3 pieces. Asking \$175. 475-4270.

SEIKO WATCH - men's thin line quartz. Lists for \$215, will sell for \$100. Hammond organ, C-3 with Leslie, showroom perfect. \$3,000. 473-2059.

SNOW TIRES - (2) D or E 78/14 for '72 Plymouth. Donna, 744-8063 days, 345-2926 eves.

For Rent

BAITING HOLLOW - larg contemp, 2 bdrm house on 2 acres overlooking Sound, secluded area, priv beach. Available Dec 80 to June 81. 727-8631.

YAPHANK - 5 rm modern duplex apt 3 mi from BNL. l/r, d/r, kit, 2 bdrms, full bsmt and patio. \$400/mo, 1 mo security includes heat & water. 581-2909.

PT JEFF VILLAGE - 3 bdrm ranch, l/r, d/r, fam rm, eik, fin bsmt, furnished beautifully. \$675/mo, 2 yr lease desired. Ext. 4074 or 928-0829 after 6 pm.

MIDDLE ISLAND - house to share/room to rent, on quiet river. Fish, swim, boating, golf across road, non-smoker. 924-3755.

MIDDLE ISLAND - furnished, spacious, clean, l/r, eik, 2 bdrm house, bsmt, garage, 6 mi to BNL. \$425/mo. 924-5192 eves.

MIDDLE ISLAND - spacious furnished room in quiet home and neighborhood, some priv, 15 min from Lab. 698-4622.

MASTIC BEACH - small 2 bdrm house, quiet area. \$275/mo + util, 1 mo security in advance. 878-1915 eves.

MIDDLE ISLAND - condominium to sublet for 2 mo 10/31 to 12/28/80. Tuli, Ext. 2901 or 924-7025.

E SETAUKET - efficiency apt in priv home, ent, carpeted, fp, unfurn. \$275/mo. 751-7491 eves.

POCONO'S - chalet in priv community, tennis, riding, golf, ski all nearby. Rent by week or weekend. 289-2159 after 6.

HAMPTON BAYS - cozy year round 1 bdrm house, fp, w/w, redecorated, reinsulated, no pets. Ext. 2802 or 728-2104 after 6 pm.

ROOM - share facilities, utilities paid, no pets. \$40 per wk. 727-9058.

Wanted

PROPORTIONAL DIVIDER - 473-5585.

CONCERTINA - for beginner. Reasonable. L. Richter, Ext. 2905 or 473-0836 eves.

CHASSIS MANUAL - for 1970 Cadillac. Don Schuette, Ext. 3084 or 929-4818 after 6 pm.

TENNIS RACKET - for child beginner. Reasonable. Katsuo, Ext. 2432.

WESTERN MAG WHEEL - 13" 30 slot for 185/70 tire. Ext. 4068.

WEAVING LOOM - large enough to weave place-mats and rugs. 929-4787.

COMPRESSOR - for GE ac unit Model No. AGKE-906LXL1 "Fashionette." Yani, 265-0536.

HOME - for orphaned 7 wk old kitten, black w/ white paws and nose. Nancy, 924-5533, Ext. 209.

OLD MINERAL BOOKS - mineral specimens or collections. Plotkin, Ext. 4717.

HOUSEMATE - house in Coram, 4 bdrm, 3 bathrm. \$155/mo + ½ util. Avail Nov 1. Ext. 2521 or 928-8379 eves.

LONG SHAFT - 9 to 15 hp outboard motor. R. Boie, Ext. 4232.

INTERESTED PERSONS - for shopping spree to Reading, PA via bus on Nov 8. Bea, Ext. 3571.

HOMES - for 2 male kittens 16 wks old, adorable, dark grey-white. Tony, Ext. 7502 or 427-2544.

HOME - w/tender, loving care for kittens, 6 wks old, males and females, pan trained. Ext. 2959 or 941-4131.

CUB SCOUT UNIFORM - size 12-14. Bill Sanchez, Ext. 3848 or 698-3145.

LUGGAGE CARRIER - molded plastic for auto roof. Reasonable. Dennis, Ext. 4259 or 736-2534 eves.

Car Pools

PATCHOGUE - via Bellport, opening for paying rider in on-time car pool. Alyce, Ext. 2902.

CORAM - driver wanted to join established car pool from LaBonne Vie Apts. Dennis, Ext. 4259 or 736-2534 after 6 pm.

E SETAUKET/PT JEFF - 5th member for existing car pool. Ext. 3327.

VANPOOL - from Miller Pl, Sound Beach, Rocky Pt, to BNL. Don, Ext. 3284.

BRENTWOOD - (East) want to start or join existing car pool. Carl, Ext. 4293.

ISLIP/E ISLIP - 4th member wanted for existing car pool. Tom, Ext. 2043.

Lost & Found

FOUND - outside Building 130 - old photo of elderly lady and little girl in early 1900's dress. Ext. 2345.

Services

COAT LININGS - hems, alterations, pillows. Sharon, 878-2591 days or eves.

CARPETS INSTALLED - repaired, dependable quick service. Free estimates. Jim, 821-0187 after 5 pm.

BABYSITTER AVAILABLE - experienced teenager, anytime. Gina, 929-4753 or Lois, Ext. 2921.

HOUSECLEANING - babysitting or homemaker for motherless home. Mon thru Sun, 5 min from Lab. 924-3755.

AUTO BODY - old car will look like new, remove rust, re-metal and paint. 698-6706.

CUSTOM CAR INTERIORS - call Bob, 744-8779.

TREE SERVICE - pruning, removal; yard garages, cellars cleaned; evergreens, fir & spruce, u-dig 20" to 48". 2 for \$7. 727-1617.

FIREWOOD - split, seasoned oak 4'x16'x18'. \$110 delivered. 924-4284 or 924-3919.

FLUTE - clarinet, saxophone, professional instruction and repair. Your home or my studio. 399-3381 eves.

FIRESIDE - chimney sweeps, fireplaces, wood coal and oil flues. Fully insured. Lab employee discount. Bill, 584-6425.

HATE TO WRITE - Christmas or Hanukkah cards? I'll do it for you. Call Maggie at 878-9541 eves and wkends.

CLARINET LESSONS - high school student w/8 yrs playing experience. Michael Elzinga. 929-8944 eves.

BABYSITTING - mature mother will sit for infant/playpen age. Anytime, my home, Sound Beach. 744-3069.

TIRES - new, used, service, all weather, radial, snow, reg. Fred Usack, Ext. 4798, lunchtime.

ASPHALT - paving and sealing. Bob, 475-4382.

POOL SERVICE - cleaning, maintenance, repairs, summerizing/winterizing. 727-4186.

MUSIC LESSONS - flute, clarinet, saxophone. Professional lessons and repair; your home or my studio. 399-3381 eves.

SOLAR CO-OP - make your own collectors in two weekends. Save ½ of the cost. 931-3200.

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