

BULLETIN BOARD

Volume 22, Number 11

Published by the BNL Public Relations Office

March 14, 1968

Brookhaven Lecture To Describe Search For Sun-Formed Neutrinos

Dr. Raymond Davis, Jr. of the Chemistry Department will deliver the 73rd Brookhaven Lecture on Wednesday, March 20 at 8 p.m. in the Lecture Hall.

Dr. Davis will describe how Brookhaven has built a detector to observe the neutrino



radiation from the sun. Neutrinos are formed in the interior of the sun by thermonuclear reactions and beta decay processes. Because of its unique ability to pass through many light years of ordinary matter without being absorbed or deflected, neutrinos can readily escape from the sun.

The Brookhaven experiment is a first attempt to observe solar neutrinos using a large detector. The detector weighs over 600 tons, and is placed deep in the earth to screen out background effects from cosmic radiation.

Dr. Davis will describe the present ideas of how the sun produces energy and how recent theoretical ideas led to the construction of four separate large scale neutrino detectors in deep mines. The construction of the Brookhaven experiment 4850 feet below the surface in the Homestake Gold Mine in the Black Hills of South Dakota will be described. This involved building a 100,000 gallon tank in a room 30 x 60 x 32 feet carved out of the rock by the mining company.

Mine Hoist Used

All the parts of the tank had to be brought underground by the mine hoist. After building and testing the tank it was filled with ten railroad tank cars of liquid perchloroethylene, a common dry cleaning solvent, used for the neutrino capturing medium.

The initial results of the first observations made last summer will be given and discussed with relation to the current theoretical models of the sun. The results have led to a reinvestigation of the theories and have started the experimentalist thinking of new techniques.

Dr. Davis, a chemist, was born in Washington, D.C. and received his BS and MS from the University of Maryland. He received his Ph.D. from Yale before serving in the Air Force during World War II. He joined the staff of Brookhaven in 1948.

A buffet supper will be served at the Brookhaven Center before the lecture from 6 to 8 p.m. Refreshments will be available in the exhibit Hall after the lecture.

Sixth AUI Lecture

A View From The Press Box

There is probably no man better qualified to expound on this important subject than Daniel S. Greenberg. This 36-year-old News Editor of Science magazine has been described as "The conscience, the voice, and the scholar of the politics of science."

Greenberg is a vital, humorous man who pulls no punches when he speaks on the subject he knows best. As a "middleman" he functions as the only real bridge of thought between the scientist in his lab or study and the politician in a committee room or on the floor of the Senate.

According to Dr. George Cotzias, Chairman of the committee,

"Daniel S. Greenberg is considered by the lecture committee as an excellent catch. We have already expounded on Greenberg's uniqueness as a scholar of the politics of science and of the science of politics. Also we have explained why he has already become the voice and the conscience of the scientific milieu, at the age of 36. But what about Greenberg the man?"

"Our speaker's most obvious features are a strong personality and a radiant human warmth. The first motivates the crusading editor, the hard working journalist, the meticulous scholar. The second underlies his effervescent wit, his crackling sense of humor and his entertaining satire. The result is an easy communication, a cordial

Scientists and Politicians -

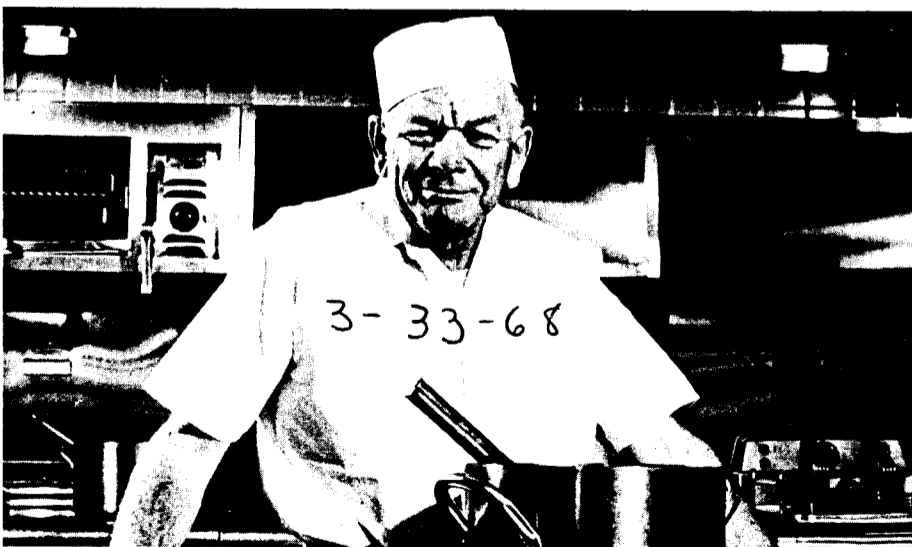
rapport. Since he does not take himself too seriously, his penetrating insight into a most complex field assumes the grace of simplicity: he is always profound, never a bore. He certainly comes across."

Greenberg's knowledge of the intricate maze of Federal support of research and development has led him to conclude that Washington is the administrative and banking center of American science. "The air routes to the capital are now so crowded with scientists that the airline magazine racks may soon include the Physical Review, and Chemical Abstracts along with the usual periodical fare."

Greenberg is well able to speak on politicians and scientists. As a former reporter on The Washington Post and a Congressional Fellow of the American Political Science Association, he has had ample opportunity to observe politics in action. His association with Science magazine, and his Research Fellowship at Johns Hopkins University in the History of Science has qualified him to air his views of scientists.

Free tickets for the lecture may be had by mailing a request to the Pegram Lectureship Committee, 40 Brookhaven Ave. Employees are encouraged to bring off-site friends as well as their families to the lecture which will be held on Tuesday, March 26, at 8:30 p.m. in the Laboratory Theater.

Chef To Retire From Medical Department After 18 Years of Food Preparation



Alfred Klement became a cook quite by accident. While recuperating from a broken neck as a result of an automobile crash, he decided that he would not be able to work as a roofer anymore, and decided to study cooking. His first job as a cook was at the BNL cafeteria in 1947. In 1950 he went to work at the BNL Medical Research Center, and will retire this Friday as a Research Services Assistant after 18 years of service.

Klement, who was 65 years old yesterday, was inducted into the Army at Camp Upton during World War II, and was sent to Fort Belvoir as an instructor of officer candidates in the Corps of Engineers. Today he still corresponds with many of his

old Army buddies, and expects to visit some of them in the years ahead.

"When I leave, I am going to miss everyone at the Hospital," Klement said. "A few years ago I was sick and everyone was so very helpful. Last year when my wife died, everyone came to express their sympathy." Klement lives alone in his house in Mastic where he has been for 40 years. He has a summer place in upstate New York, and will spend some time there fishing.

Norma Gillespie, Head Dietician at the Medical Research Center, said that all of Klement's friends will meet with him on Friday evening at the Brookhaven Center to show their appreciation for his friendship and wish him well.

AUI Trustee Chosen For Lawrence Award

Dr. Val L. Fitch, Professor of Physics at Princeton University, and Trustee of AUI since 1961, was chosen one of the five men to receive the Ernest O. Lawrence Memorial Award for 1968.

Dr. Fitch and four other scientists are being honored for recent meritorious contributions in the field of atomic energy. Each winner will receive a cash award of \$5000 along with a gold medal and a citation. Dr. Fitch's citation reads, "For his brilliant research on mesons which has added to our knowledge of both mesons and nuclear structure and has shown the fundamental asymmetry of nature under the combined transformation of charge conjugation and parity."

The Ernest Orlando Lawrence Memorial Award was established by the AEC in 1959 to perpetuate the memory of the man who invented the cyclotron and was the Director of the Radiation Laboratory at Berkeley and Livermore. The award is made in the spring of the year to men and women not more than 45 years of age who have made recent especially meritorious contributions to atomic energy in all fields including medicine and engineering.

Research at LASL and BNL

Professor Fitch worked as an assistant scientist at Los Alamos before receiving his Bachelor's degree from McGill University in 1948. At Columbia, where he received his doctorate in 1954, he studied the x rays produced when mu-mesons were captured by atoms. Later at Princeton and at Brookhaven, he studied the mean life of the K meson.

In 1964, with Christenson, Cronin and Turlay, he made the historic discovery that the K_2 meson decays into two pions as well as the known decay into three. This observation demonstrated the invalidity of the previous assumption of symmetry under charge conservation parity.

Dr. Fitch has served as a consultant to the AEC and as a Department of Defense Sloan Fellow. He has been a Trustee of AUI since 1961 and is a member of the American Physical Society and the Italian Physical Society. He was elected to the National Academy of Sciences in 1966 and is a member of the American Academy of Arts and Sciences.

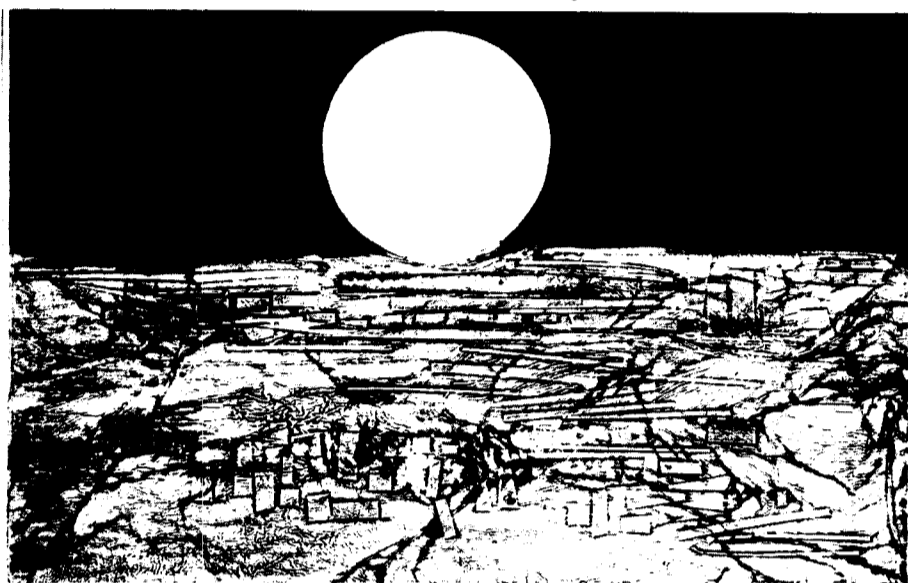
Research Opportunities Through Mini-Instruments

It seems that when the mini came, it came to stay and take over much more than just the world of the couturier. Mr. Lloyd E. Slater, Assistant to the President of AUI, discussed yesterday with members of the Biology, Medical and Instrumentation & Health Physics Departments the evolution of mini-instruments and the uses of such instrumentation in biological and medical research.

Recent progress in solid-state device technology and related microelectronics has brought the mini-instrument into being. Mr. Slater said that it is now possible to make measuring devices less than 1 cc in size and 1 gram in weight. These devices can be placed directly within a product, a process, or a living system. The information from the instruments can be telemetered to a remote recorder or computer.

As former Executive Director of the Foundation for Instrumentation Education and Research at the American Institute of Physics in New York, former Executive Secretary of the Bio Instrumentation Advisory Council in Washington, and Associate Director of Research at Case Institute of Technology, Mr. Slater has had wide experience with modern instrumentation and its potential.

BERA Art Show Opens Tuesday



Moonscape - A collograph by Jim Steg

The next BERA art show will explore the lively current scene of American printmakers. Entitled "New Direction in Printmaking," the exhibition, which opens on March 19, will be devoted primarily to new techniques and significant innovations in the graphic arts.

The show will include more than 30 original prints. Because of some confusion on this subject, it should be emphasized that an original print is a work of art that has been created in a medium capable of producing more than one copy, such as etching, engraving or lithography. The artist carries out all the steps in the process himself or supervises them directly. Usually a small number of examples of the final work are produced and, at least in modern times, these are numbered and signed by the artist as proof of authenticity. The history of printmaking, both in the East and the West, is long and distinguished, involving some of the world's greatest artists. In fact, some of history's widest artistic reputations were made on the basis of prints - those of Hokusai and Dürer, for example.

At times in recent years the public has tended to the impression that contemporary artists have, through laziness or lack of skill, neglected the technical aspects of their arts. They complain that the quality in a finished work that shows refined technique and careful execution is sorely lacking in much contemporary painting. (These critics may still recognize that in some areas of modern art a completely controlled execution is inimical to the expressive requirements of the artist.) Others complain of some contemporary paintings that they are too simple - too easily produced.

In any case, a review of recent work in printmaking proves that, for a large segment of American artists, difficult requirements of technique, time, and care are no barriers to artistic creativity. Not only have American printmakers shown a mastery of the classical techniques of etching, lithography, etc., but they have significantly modified and extended these techniques. In some cases, entirely new techniques have been developed to satisfy the expressive requirements of the artist of the 20th century. The intent of the show "New Directions in Printmaking" is to display some of the most significant of the recent innovations and developments.

The prints for the show are being loaned by Associated American Artists, one of the foremost galleries in the world for graphic arts. About 20 artists will be represented, including such prominent "personae" as Albers, Summers, Rivers, Johns, and Rauschenberg.

CERN Council Meets For 37th Session

The thirty-seventh session of the Council of the European Organization for Nuclear Research will meet today in Geneva, Switzerland.

The budget for the existing Laboratory for 1969, 1970 and 1971 will be discussed as well as other important topics affecting the future life of the organization.

After discussing the problems of organization and management of the 300 GeV accelerator, the Council will discuss the procedure for the selection of a site. Comments on the report of the Site Evaluation Committee will be made by some of the Member States.

A detailed reply will be given to the questions on the 300 GeV project posed by the delegation from the Federal Republic of Germany at the last Council session in December. A forward program for the 300 GeV project will also be established.

Congratulations!

In January of 1947, BNL's first scientists began arriving at Upton, and started planning for the construction of the Brookhaven Graphite Research Reactor. In March of 1947 Camp Upton was turned over to AUI by the U.S. War Department. A staff of some 300 employees who had been with Camp Upton were transferred to the BNL payroll. Brookhaven National Laboratory was born, and Camp Upton passed into history.

It was during these early days that ten of the present members of the Security Division joined the Laboratory. Patrolmen L.M. Lento, J.C. McMahon, G. McGann, A. Greener, W. Pollack, S.J. Rosato, C. Gazdick, F. Remiszewski, H.L. Maybee, and W.H. Dawson began their service between March 1947 and January 1948, and have completed 20 creditable years with the Laboratory. The *Bulletin Board* would like to take this opportunity to express its appreciation of their fine record.

All Brookhaven employees, their families and friends are invited to the opening of the exhibition on Tuesday evening, March 19 at 8:00 in the Exhibit Hall. Refreshments will be served, and it is hoped that some of the artists and members of the gallery will be present. The show will then be open daily during the week through Thursday March 28 from 11:00 a.m. to 5:00 p.m., and also at 7:00 p.m. on the evenings of March 20, 26, and 28.

Here and There

Dolores del Castillo

On March 2, George Spatzier (Plant E & P) lectured at the Laborers League of Equality Conference held in Utica, New York, on "Collective Bargaining in Non-Profit Organizations." This topic will be one of the subjects of his forthcoming book "Workers Guide Toward Better Collective Bargaining."

Dr. Donald C. Borg (Medical) gave a biophysics seminar entitled "Chemically Induced Transient Free Radicals of Biological Interest," at Penn State University, March 6. On March 21, he will give a seminar on the subject of biological applications of electron spin resonance at the Mallinkrodt Chemical Works in St. Louis.

Dennis Puleston (Info Div) was the guest speaker in the Huntington Historical Society Conklin House series, February 26. He gave an illustrated talk on "Long Island Wildlife."

R.C. Anderson (OSP) lectured at the Far Rockaway High School on February 20. The subject of his lecture was "Viewpoint: Science and Society."

Frederick P. Cowan (I & HP) attended a meeting of the AEC Health Physicists Fellowship Board held at Oak Ridge, March 6-8.

Norman Sutin (Chemistry) has accepted a position as Visiting Professor (part time) in the Chemistry Department of the State University of New York at Stony Brook.

Richard Dodson (Chemistry) has been reappointed to the Transplutonium Program Committee of the AEC for a second three-year term.

Gerhart Friedlander (Chemistry) has been appointed to the Advisory Committee for the U.S. Army Nuclear Defense Laboratory at Edgewood Arsenal, Maryland.

Victor W. Cohen (Physics) served as a visiting lecturer at Middlebury College, Middlebury, Vermont, on March 13 and 14. He visited under the auspices of the American Association of Physics Teachers and the American Institute of Physics as part of a broad, nationwide program to stimulate interest in physics.

Gene E. Likens (Biology) recently presented a paper on "The ecosystem concept in natural resource management" at the University of New Mexico Symposium, Albuquerque, N.M.

Rick Villacara (Pers.) recently represented BNL at a panel program conducted by the Guidance Department of the Center Moriches High School. The program was sponsored by the Center Moriches, East Moriches and Eastport Public Schools in cooperation with the Bureau of Guidance, New York State Education Department, and its purpose was to inform 11th and 12th graders about the world of work and related employment practices.

Joseph S. Washburne (Pers.) has been appointed a charter member of the L.I. Assn. of Commerce & Industry's Government-Business Training and Placement Council. The purpose of the council is to train and find jobs for the Nassau-Suffolk hard-core unemployed. Funding for the pre-job training will come from the Federal government, and the companies of both counties will handle the on-the-job training.

Movie Tonight

La Strada

Starring Giulietta Masina, Anthony Quinn and Richard Basehart

Short: Muscle Beach

BULLETIN BOARD

Published Weekly for the Employees of Brookhaven National Laboratory

CARL R. THIEN, *Editor*
DOLORES DEL CASTILLO, *Editorial Assistant*
JUDY KALTSCHMIDT, *Copy Preparation*
40 Brookhaven Ave. Upton, N.Y. 11973
Telephone 516 924-6262 Ext. 7238

NORBERT J. DERNBACH
Public Relations Officer

Letters To The Editor

As a matter of general interest, the *Bulletin Board* reproduces the following letter received by the Information Division.

Dear friends Nigeria
I respectfully beg you to send me some of your books. I learnt that your books are interesting. I want you to send me big books. I have my own library. The library is too poor. I have no books in the library. I have been looking for this address now, I have got it. I am poor and needy. Please friends have mercy upon me. If the books received earlier I will be praying for you alway. I am expecting the books Latest April 1968. May God be with you for ever and ever. Amen
Your loving friend Godwin O. Asuelimen

Dear Sir:
In response to a recent letter to the editor and other similar suggestions, there will be an alphabetical listing of the principal buildings on site in the new BNL Telephone Directory to facilitate determination of building numbers. Additional suggestions relative to improvement of the telephone book should be addressed to A. Laurine, Telephone Service Supervisor, Staff Services Division, Building 179.
W.S. Webster

Arrivals & Departures

Arrivals

Vincent S. Lo Grasso.....Accelerator
George J. Reichenbacher.....Accelerator
Richard A. Rodemer.....Plant Engr. & Plan.
George Tucker.....Plant Engr. & Plan.

Departures

Genevieve D. Burke.....Physics
Carolyn P. McKinlay.....Medical
Robert J. Spinrad.....Instr. & H.P.
Edward H. Zellner.....Central Shops

USNR Research Co. 3-9
Brookhaven National Laboratory
Upton, New York YA 4-6262, Ext. 2910

Drill Schedule

For Quarter Ending 30 June 1968

20 March

Radiological Off-Site Emergencies

Paul B. Klevin, AEC

3 April

Late Radiation Effects in Marshall Islands

Adm. R.A. Conard

Inspection and Uniform Drill

17 April

Superconducting Magnets

A.G. Prodell, BNL

8 May

Toxic Substances in Ecological Cycles

George Woodwell, BNL

15 May

Nuclear Power Plant - Antarctica

C. J. Raseman, BNL

12 June

Hazards from Lasers

Capt. V.P. Bond, BNL

CDR L.A. Baker, Jr., BNL

19 June

Neutron Activation Analysis

D.C. Borg, BNL

Early Music Quartet – Last Concert This Season

The Studio der freuhen Musik from Munich/Early Music Quartet devotes itself to the music, vocal and instrumental, of the Middle Ages and the Renaissance. Founded in 1960 by musicologist Thomas Binkley, it consists of specially trained artists, who have devoted years of study to recreating the works they perform in the authentic spirit of the age. Their instruments are either exact copies of the old ones or reconstructions, based on iconographic material, literary sources and still extant related instruments. They have revived the timelessness of the musical essence and now may see it accepted on its actual merits: on an equal footing with the far better known compositions of the Baroque, Classical, Romantic and Modern periods.



Since 1961 the artists have been touring, performing all over Europe, including the festivals, the Far and Near East, South America. In Montevideo, they received a prize for the most unusual foreign chamber music program of the season.

The Early Music Quartet includes two vocalists – mezzo soprano and tenor – and two instrumentalists who play bowed and plucked instruments and winds. Since its establishment in 1960, they have performed all over the world. Their introductory North American tour (October 1966 through January 1967) found them everywhere from the Atlantic to the Pacific; the programs comprise profane and sacred compositions from the Romance and Germanic countries (France, Burgundy, Spain, Italy; England, Holland, Germany) ranging from the 11th to the 16 centuries.

The program to be performed at Brookhaven includes early works of the major European countries.

The concert will take place at the Brookhaven Center on Thursday, March 21 at 8:30 p.m.

Admission: Adults, \$3.00; Children, \$1.50; Non-Employee Guests, \$3.50.

Refreshments will be served at the Center following the Concert.



Have a picnic and play ball with the Slow-Ball league.

Softball Sign Up – Now

Entry forms and league information for the 1968 Men's Slo-Ball season are now available at the Recreation Office. The plans are to begin play on May 6th. The deadline for registration for last year's teams is April 11. If you have a new team, your deadline is April 16. However, don't wait. It would be helpful if all teams submitted their entries early. The registration fee of \$35 per team must accompany your application. Checks should be made payable to the BNL Softball League.

BERA defrays the entire cost of the umpires, pays for the balls, bats and other incidental equipment and awards trophies to the winners in each league.

The Softball Committee, composed of players from our leagues, uses the entry fees for membership in the Amateur Softball Association and special awards and events . . . like the highly successful Softball Day last year. Mike Zguris, League Chairman, has appointed several committees which are now at work finalizing this season's specials. Specific announcements of their nature will be made shortly.

We have fashioned our softball program for you. Our committee reviews all the applications and attempts to balance the leagues to provide equal competition for all levels of skills. Our system has proven so successful, rumors have it the National Football League is considering its adoption. So if you, like the rest of us, have passed the Mickey Mantle stage, come out for the exercise and fun. Our fields are equipped with picnic tables, grills, and playground equipment for the youngsters.

If you wish to play and your group is not planning a team, call the Recreation Office, Ext. 391, and submit your name to the Players Pool.

Radio Club

The Amateur Radio Club meeting will be held tonight, March 14, at 2000 hours in the Recreation Building. Refreshments will be served.

Dance Class

Registration is still being accepted for the Arthur Murray Dance Classes which are being held each Wednesday at 8:30 p.m. in the Recreation Building.

Fox Trot, waltzes, Latin American and other interesting dances are being taught. Come alone or with an escort or friend – you are all welcome. Singles will be paired with dancing partners.

To sign up – come to next Wednesday's class.

Mountain, Winter Scenes At the Camera Club

The next regular meeting of the BNL Camera Club will be on Monday, March 18 at 8 p.m. in the Lounge of the Recreation Building.

Winter scenes featuring breathtaking views of the Alps, Canadian Rockies, etc., will be the subject of a slide program presented by club members.

A 25-minute Kodak presentation, "Print Finishing Techniques" will also be shown. Everyone is welcome to attend.

Acting Class to Perform

At Theatre Group Meeting

The next general meeting of the Theatre Group will be held on Monday, March 18, at 8:30 p.m. at the theatre. The program will feature a performance by students from the Drama Department of SUNY, Stony Brook, under the direction of Professor John Heir. Everyone is welcome, so please do join us.

... "a rolypoly clown who blows the greatest trumpet in the history of man." –Las Vegas Sun



and we've got him . . .

BERA Special Event Sunday, April 28th

8 p.m. at the Theater
 Tickets at the Rec Office
 \$5 employee and immediate family
 \$6 for guests

No. Harry will not be here, but Pee Wee and the Young Set will with "Melody just oozing from the instruments to caress the ears."



Who's That Guy Up There With Al Hirt?

Classified Advertisements

Autos & Auto Supplies

60 DODGE - 4 dr, r/h, ps, new tires, recent tuneup, rides beautiful. Ext. 7474, GR5-5810.

61 VW - \$350. A. Olsen, Ext. 2585.

65 PONTIAC CATALINA - 4 dr hdtop, ps/pb, auto, ventura trim, decor & lamp groups, radio, w/w tires, reg gas V8. \$1300. Ext. 2710.

65 IMPALA - V8, ps, auto trans, w/w tires, radio, 2 dr sport coupe, silver blue, like new, must see. \$1400. D. Miller, Ext. 2412, 281-8579.

57 FORD STATION WAGON - 4 dr, 6 cyl. \$50. AT9-0371.

59 CHEVROLET IMPALA - 2 dr hdtop, 6 cyl, ps, good cond. \$250. AT9-0371.

60 OLDSMOBILE - 2 dr hdtop, auto trans, uses reg gas. Best offer over \$175. Ext. 2209.

60 MERCURY COMET - Std trans, good motor. A. Carlucci, Ext. 2255.

49 JEEP - Rebuilt 53 motor 1 yr old, 4 w/d, new carb, lock out hubs, good tires, heater, must sell. Best offer over \$300. Jerry, 475-5196 days.

64 T-BIRD - Ps/pb, auto trans, tilt-away wheel, good cond. \$1625. Bob, Ext. 2167, 585-4973.

60 PONTIAC - 2 dr hdtop, auto trans, ps/pb, excel mech cond. \$199. Rich, YA4-3298.

57 BORGWARD "ISABELLA" - 2 dr sedan, r/h, 4 spd synchro trans, extra rims w/snows, mechanics manual. \$80. Rich, YA4-3298.

62 MERCURY MONTEREY - Custom 4 dr, 8 cyl, r/h, excel cond inside & out. A-1 running cond. \$595. 281-6732.

66 SIMCA - 1000 series, 4 dr, over 30 mpg. 722-3915.

60 TRIUMPH TR-3 - Eng recently overhauled, TR-4 trans. D. Michael, Ext. 7615, 751-8776.

62 OLDSMOBILE STARFIRE - Conv, white w/beige top, full power, good rubber, excel cond. \$750. C. Koehler, Ext. 610.

FREE - Rochester carb for 6 cyl Chevrolet eng, nearly new, needs some repair. M. Greene, Ext. 7779.

Boats & Marine Supplies

BEETLE CAT SAILBOAT - Good cond, needs a little work, cotton sails, w/trailer. \$350. AT6-3693 after 4 p.m.

18' COMMODORE SEA SKIFF - W/75 hp Evinrude, navy top, side curtains, mooring cover, extras. \$800. Bill, Ext. 2580.

30' CHRIS CRAFT 1955 - Twin 150 interceptor, fb, df, ss, sleeps 4. \$3500. LT9-5649 after 6 p.m.

18' FIBERGLASSED OUTBOARD - 75 hp Johnson, cabin, good cond, fully equipped. \$850. Dick, Ext. 7228.

FIBERGLASS RHODES 19 SLOOP - 2 mains, 2 jibs, 2 spinnakers, race gear, cg equip. \$2000. Don, Ext. 2531.

14' WOODEN SHARPIE - Fiberglassed. \$85. H. Lotko, Ext. 2908.

SCUBA REGULATOR - US divers mistral, single stage regulator, like new. Asking price \$25. F. Stapel, Ext. 2934.

WINDMILL 15' SAILBOAT - Fiberglassed, hand rubbed epoxy finish, trailer, compl w/all fittings. \$700. Bigeleisen, Ext. 678, 472-0215.

1959 EVINRUDE 50 HP - Ext. 2489.

25' BELLCRAFT HDTOP 1961 - 125 hp Chrysler Crown, fresh water cooled, lapstrake, like new, 270 hrs total use. \$2350. 878-1583 after 5:30 p.m.

16' GRADY LAPSTRAKE - 40 hp Johnson, elec, both 3 yrs old, navy top, canv cov, extras, excel cond. \$950. John, Ext. 458.

62 PACEMAKER - 30' Exp. crus, 225 hp, 12/110v re-frig, gas range, exh fan in gal, head & bilge, bow rail, instant water in head & gal. \$5900. R. De Matteo, 878-1975.

Miscellaneous

GUITAR - Kay steel string, excel cond, case incl. \$35. Marge, Ext. 359.

MAUSER - NRA excel, shoots M.O.A. w/good handloads, \$75; 12 ga single action Lefever shotgun. \$35. Ext. 2888.

DRYER - Westinghouse elec, like new, front loader. Cash & carry, \$50, deliveries \$55. Augie, Ext. 566, 732-4101.

2 ACRES - Middle Island, pond site, near golf course, 200' frontage. \$8000. 732-3754 nights, 732-9090 days.

23" TV - Zenith console, good cond. \$60. Ext. 2805, 732-5445.

CAMP STOVE - Coleman, 2 burner & 2 mantle lamp, both burn white gas, excel cond. \$8/ea. D. Kazmark, Ext. 2459.

CAMERA & ACCESSORIES - Nikon F photomic w/50 mm f 1.4 lens, Soligor 35mm wide angle, Sun 85-210 mm zoom, bellows, ext tube, etc. \$750 value, will sacrifice for \$500. D. Cheng, Ext. 7304.

KITCHEN TABLE - Red formica, w/4 chairs (need re-covering); \$12; living rm arm chair, \$5. HR2-1097.

LAWNMOWERS - Sears 22" Rotary, self-propelled, \$30; Toro power handle w/whirlwind rotary mower attachment, needs repair, \$40. HR2-1097.

TRAILER HITCH - For 66 Buick, Le Sabre. \$5. Bob, Ext. 653.

PLAYPEN - Wood, attractive, \$2; girls 20" bike, \$2; baby stroller, seats 2, \$2. 277-9334.

CABINETS - 2 kitchen, metal, 24"x36"; 1 kitchen metal cabinet, 24"x64"; 2 vacuum cleaners; stepstool & assorted chairs. Earl, Ext. 7356.

HOUSE FURNISHINGS - Assorted, & garden equip, should come to house & look around, all in excel cond. Earl, Ext. 7356.

FRENCH POODLE - AKC, 9 wks old, black, male. \$75. Pat, Ext. 358, 281-6737.

ADOPTION - Beagle & ? pups, 6 wks old, 2 females, 1 male. 928-1398.

2 TICKETS - To "Scuba Duba", Sat. March 30 at 7:00 p.m. \$5.50/ea. Dahl, Ext. 2861.

GIRL'S BIKE - 26", balloon tires, \$8; new baby seat for bike, \$8. Gordon, Ext. 2913, GR5-1510.

PUPPIES - English Pointer females, 6 wks old, tan & white, black & white. \$5/ea. F. Horn, Ext. 2383, 589-2759.

ACCORDION - Italian made w/case, excel cond. \$50. Edna, 281-8087 after 6 p.m.

MATTRESS - For 2 full size sofa bed, hardly used. \$15. I. Lewis, Ext. 2936.

9'6" SURFBOARD - Excel cond, Bungler Semi-former. \$120. HR2-1243 after 6 p.m.

ZENITH TV - Table model, in working cond, new tubes last fall. Asking \$40. K. Paul, Ext. 7731.

HI FI MONO - AR-2 speaker, Garrard RC-98 changer, Heath WA-P2 preamp, W-5M amp, FM-3A tuner (will sell separately). G. Nugent, Ext. 7686.

APACHE EAGLE TENT TRAILER - Used 3 wks. New models list at \$800, my price \$502. \$2 off w/this ad. M. Brooks, Ext. 2867.

3 WINDOWS - Double-hung wood, compl w/screens, casings & trim, 27"x4'6", 2'2"x3'2", 1'6"x4'2". \$5 ea. T. Morris, Ext. 7739, 744-5096.

BATHTUB - 5' white enameled steel, left-hand drain. \$15. T. Morris, 744-5096, Ext. 7739.

SKI PARKA - Woman's lg, yellow nylon w/dacron fill, never worn, "Ski-tique" brand. List \$22.95, sell for \$15. T. Morris, 744-5096.

SAFETY RELEASE SKI BINDERS - 1 pr, excel cond. \$7. J. Weiss, Ext. 2472.

2 ELEC BED WARMERS - Thermostatic control. \$4 ea. J. Weiss, Ext. 2472.

1 FOLK GUITAR - Good cond. \$10. J. Weiss, Ext. 2472.

BATHROOM TILES - Ceramic, pink w/blue trim, enough for a sm bathrm. \$5. Ext. 7618.

REFRIGERATOR - Hotpoint, 12 cu ft, w/top freezer, about 10 yrs old. \$50. Ext. 7618, AT6-1358 after 6 p.m.

1 1/4 HP PORTER CABLE ROUTER - Model #150-A, w/3 bits. Orig cost \$80, asking \$65. Watson, Ext. 2381, 929-4413.

GUILD GUITAR - W/carrying case, steel strings, excel cond & tune. \$125. 286-1218.

GOLF CLUBS - Women's Wilson, Patty Berg, Signature clubs, 5 irons, 3 woods 1 putter, all good cond. \$35. K. Paul, Ext. 7731.

30" GAS KITCHEN STOVE - Wide oven, used 1 yr, immaculate. \$65. Ray, Ext. 2962, 286-8269.

UNIVERSAL MOVIE PROJECTOR - 8 mm, old but works well. \$20. Ken, Ext. 7668.

WALL DECORATION - 2 shadow boxes, ideal for den or playrm. \$10 ea. Sadofsky, Ext. 2709.

HIKING BOOTS - Men's 8, Austrian make, worn a few times. Only \$10. G. Tisljar, Ext. 7211.

LAND - Pine St, East Moriches, 200' frontage, 3/4 acre. \$3600. 878-1583 after 5:30 p.m.

NUTONE WALL FAN - 11" in diameter, good cond. \$8. Ext. 2580, GR5-2287.

BABY EQUIP - Car bed, playpen, sterilizer w/bottles, nip-nap infant seat, walker, tub, booster chair, car harness. Steve, Ext. 2801.

BEGINNER'S GUITAR - Good cond, steel strings. \$9. F. Meisenzahl, 924-3565.

REMINGTON PORTABLE TYPEWRITER - \$20. Ext. 7119.

HI-FI EQUIPMENT - 30 watt stereo amplifier, very good cond, FM-AM tuner & lg speaker system. Ext. 7300, AT6-3662.

NEW SKIS W/POLES - Plus rack, "Sport is too dangerous for me." Offer over \$35. Ext. 686.

ANTIQUA TABLES - Victorian couch, cut glass. R. Abbott, Ext. 7196, HR2-0509 after 5 p.m.

DRESS MATERIALS - Silks, woolens & cottons. R. Abbott, Ext. 7196, HR2-0509 after 5 p.m.

Houses

BROOKHAVEN VILLAGE - 4 bedrm ranch, liv rm, din rm, porch, 1 1/2 baths, dble garage, 1 1/2 acres, fully landscaped, 150' frontage. \$31,000. AT6-1358.

OAKDALE - Idle Hour, 4 bedrm split colonial, cathedral liv rm, fam rm, foyer, 1 1/2 baths, garage, patio, on treed-landscaped plot, extras. \$19,500. R. Strand, LT9-1889.

SAYVILLE - 7 rm, 3 bedrm ranch, rec rm w/fireplace, s/s, full basement, attached garage, .3 acre, treed corner lot. \$18,500. LT9-6752.

BROOKHAVEN VILLAGE - 8 rm colonial on bulk-headed canal, private dock in back, Bellport Bay at front, lg dble garage. \$30,000. 286-0322.

CENTEREACH - 3 bedrm split, 3 yrs young, oversize master bedrm, center foyer, s/s, floating den, cathedral ceiling, extras. 732-9088.

BROOKHAVEN VILLAGE - 3 bedrm, liv rm, din rm, fam rm, w/fireplace, garage, 1 1/2 baths, landscaped 1/2 acre. 286-1218.

SELDEN - Split colonial, 1 1/2 yrs old, 4 bedrm, basement, 1 1/2 baths, garage, storms, washer, etc, fenced patio, fully landscaped. \$18,800. 732-7649.

RIDGE - 3 bedrm ranch, eat-in kitchen, din rm, s/s, full basement. 924-6860.

MILLER PLACE - Historic restored 200 yr old cape, 5 bedrms, 2 baths, 3 fireplaces, 2 car garage, terraced, fenced 3/4 acre. Asking \$45,000. Joan, Ext. 574, HR3-6958 after 6 p.m.

FOR SALE OR RENT - 4 bedrm hi-ranch, 3 baths, liv rm, din rm, rumpus rm, fireplace, garage w/w carpet, extras. Sell \$26,700, rent \$200/mo. Ext. 7460.

For Rent

TO SUBLET - 2 bedrm apt, 98 Maple Ave, Patchogue, convenient to shopping, all new kitchen appliances, avail April 1, heated garage. \$160/mo. Ext. 2797, 475-0269.

MASTIC BEACH - 3 bedrm ranch house, w/w carpet, fenced back yard. R. Lehmann, Ext. 2511, 724-4298 after 5 p.m.

SUMMER - July & Aug, 8 1/2 rm house, completely furnished, E. Patchogue, 1 mi from bay. \$400/mo. J. Olson, Ext. 441.

3 RM APT - W/bath, elec not incl, Main St, Yaphank. \$90/mo. YA4-3800, YA4-3471.

STUDIO APT - Priv entrance, priv bath, kitchenette, all util, furnished, 5 min from Lab, close to shopping. DeGiuseppe, 281-5413.

Wanted

UNFURNISHED HOUSE TO RENT - 4 bedrm, Pt Jeff area, start July or Aug for 1 yr min, cond unimportant. Metzner, Ext. 2341, 924-8577 after 7 p.m.

BABYSITTER - Capable teenager in Patchogue area, for 2 1/2 yr old son. 289-8253.

USED LICENSE PLATES OF ALL STATES - To buy, trade or exchange for US commemorative stamps, blocks or number blocks. Ewald, Ext. 573, CA1-1974 eves.

60-63 CHEVY CARRYALL - 2 or 3 seats. A. Olson, Ext. 2585.

TYPING - Term papers, etc, to do at home. Claire, Ext. 2131, 281-9034 after 5:30 p.m.

HOME FOR SPAYED FEMALE DOG - House broken, gentle w/children, we have too many dogs. J. Jacobs, Ext. 2955, HR3-1465.

PLAYPEN & BABY CARRIAGE - Phelan, 475-4661.

GOOD HOME FOR MALE PUPPY - 90% golden color, 5 mos old. Robin, Ext. 7637 after 4:30.

FURNITURE - Playpen & toys for church nursery. M. Degen, AT9-2340.

BOAT OWNERS - 16 yr old son of Lab employee avail weekends to assist in fitting out, sanding, painting, varnishing, etc. Ext. 2294.

OLD MAGAZINES - All kinds for use in file of types of art, layouts, etc. Whitey, Ext. 2179.

USED TENNIS TABLE - Gunnar, Ext. 670.

Carpools

1 RIDER/DRIVER - Or paying rider looking for a carpool, Rider Ave, Patchogue. B. MacLeod, Ext. 7382, GR5-7694 after 5:30 p.m.

Classified Ad Policy

Deadline is 12 noon Friday for publication the following Thursday.

- The Bulletin Board's classified section may be used only by active and retired Laboratory employees.
- All items for sale or rent must be the advertiser's property.
- Persons listing houses, apartments, or rooms for sale or rent, do so with the understanding that these must be available without regard to race, creed, color, or national origin.
- Ads for material acquired for resale in association with a full or part-time business cannot be accepted.
- Ads should be restricted to 20 words or less and typed

or printed on the form provided, and must bear the employee's signature.

6. Ads not carried because of space restrictions will be held for publication in the next issue.

7. Ads are run only once and must be resubmitted if they are to be repeated.

8. Firearms offered for sale or trade may not be brought on site.

- For Sale: Auto & Auto Supplies
 For Sale: Boats & Marine Supplies
 For Sale: Miscellaneous

- For Sale: Houses
 For Rent
 Wanted

Carpools

Check the heading applying to your ad.
 Print or type your ad in 20 words or less.

(Name & Phone No. To Call)

If this ad concerns housing for sale or rent, such housing is available without regard to race, creed, color, or national origin.

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

Send to: BULLETIN BOARD, 40 Brookhaven Avenue