



Earth Day At Lab Draws 120 Students

Earth Day was celebrated at Brookhaven Lab last Saturday by an Environmental Technology Seminar attended by 120 students and teachers from Long Island high schools.

A volunteer staff of speakers and guides from Brookhaven was led by Walt Tucker, DAS, and Virginia Sayre, Directors. In addition, many other tasks were accomplished by members of the Environmental Technology Seminar.

After a 9:30 a.m. registration period in Berkner Hall, the group was welcomed to Brookhaven by Deputy Director George Vineyard and by ETS member Alex Hershaf. The first speaker on the program was former BNL Information Officer, Dennis Puleston, now Chairman of the Board of the Environmental Defense Fund. Another short speech was delivered by Vance Sailor, Physics, Chairman of the Suffolk



Dennis Puleston Walter Tucker

Scientists for Cleaner Power and Safer Environment.

After Dr. Sailor's talk, the audience formed small groups and attended outdoor seminars on various environment-oriented subjects led by members of the BNL staff. Participating in these informal seminars were: Dr. Buford Holt, Biology; Mr. Robert Brown, Meteorology; Mr. John Hennessey, PE&P; Mr. Lawrence Kukacka, DAS; Dr. Jack Cusack, HIRDL; Mr. Leonard Galanter, HIRDL; Dr. James Powell, DAS; and Dr. Leonard Newman, DAS.



Dr. R.C. Anderson delivered the closing talk of the day after the students participated in a "rap" session with BNL scientists.

Before the conclusion of the program, Assistant Director Dr. R.C. Anderson delivered a talk titled "Eco-Economics."

The Environmental Technology Seminar presents a program each year to coincide with Earth Day. Last year's program was held at Grumman. In addition, many smaller programs and activities are held throughout the year at frequent intervals.



An intent audience listens to speakers in Berkner Hall.

Smoke Signals Over Lab



Viewed from the front of the Cafeteria, the smoke cloud hanging over the Lab presented an ominous picture on Friday afternoon.



Ed Hunter, Grounds Maintenance (back to camera) watches as Lab firemen extinguish blaze in old water tower at south-east border of Lab site. A bulldozer has just toppled the tower in order to prevent wind-borne sparks from spreading the fire to other areas on the Lab site.

Site Threatened By Forest Fires

In spite of dry weather and high winds which caused brush and forest fires in many areas adjoining the Laboratory, BNL was spared from any major involvement in last week's ecological disaster.

Constant patrolling and quick response by security forces of firemen and patrolmen prevented the massive burn-out to the south and east from reaching the Laboratory site.

On Tuesday, April 20, a grass fire on the south side of the Long Island Expressway, east of the Lab boundary, caused a brush fire that jumped across the expressway and started a blaze in the vicinity of the old Camp Upton water tower. In a few moments, the flames reached the dry timbers of the water tower and threatened to become a major fire. Chief Newham ordered the tower demolished, and a crew of bulldozers led by Ed Hunter of Grounds Maintenance razed the old structure and enabled firemen to extinguish the blaze.

Firemen from the Lab were joined in fighting Tuesday's fire by volunteers from Center Moriches, Mastic and Brookhaven.

Friday's holocaust apparently started on the south side of the LI Expressway to the east of William Floyd Parkway. The blaze quickly spread through wood- and brushland in an easterly direction until it was finally extinguished in the vicinity of Wading River Road in Manorville, after burning a 20-square mile area.

Before the fire was declared under control at 7:30 p.m., more than 20 volunteer fire departments were involved in fighting the massive blaze. During the afternoon hours, Suffolk County Executive Dennison declared a state of emergency, and volunteer firemen who worked at Brookhaven Lab were released to join in fighting the fire.

Lab firemen with a high pressure pumper and a crew from Grounds Maintenance with Indian tanks were assigned to fight the blaze. At one point in the late afternoon, the old bridge over the LI Railroad at the former South Gate caught fire, but it was soon extinguished.

Firemen at BNL's firehouse monitored calls during the afternoon and evening, and relayed messages to headquarters in Yaphank as well as to individual firemen on site. Many tank trucks from volunteer departments used hydrants near the main entrance gate to replenish their supply of water.

A short rain shower on Saturday night and a general increase in the humidity during the present week has greatly diminished the chance of a large fire starting up again, but it is extremely important that employees are careful to observe all fire precautions.

Open fires, carelessly-discarded cigarettes, and improperly stored trash can all be the cause of a repeat performance of last week's near disaster.

All Bargain Hunters Please Take Note!

BNL's annual "Cleanup Week" is scheduled to begin on May 17. The Supply & Materiel Division will again be coordinator for this campaign with the objective of getting maximum utilization of equipment and supplies on hand.

The costs of procurement, supply, and property management can be reduced through close screening of existing equipment to eliminate purchases that may duplicate or closely match property already on site. The Supply & Materiel Property Management section has complete listings of capital equipment available at Building 211. It will arrange transfers, loans, and act as third party in any horse trading.

Non productive equipment should be declared available in order to repay its cost through useful service. Please notify Supply & Materiel by Calling Ext. 2704 or Ext. 2826 for truck pickups of materials or equipment to be transferred, excessed, or stored.

Hull Lectures At Tougaloo

Lectures on Radiation Safety and Environmental Problems of Power Production were presented on April 22nd by BNL Associate Health Physicist Andrew Hull to the undergraduate Biology Seminar at Tougaloo College.

Located near Jackson, Mississippi, Tougaloo is one of the Southern regional colleges participating in the Brookhaven Semester Program. In addition to making it possible to bring students from this college to Brookhaven, the Semester Program makes it possible for BNL staff to share their expertise "on-campus" in this manner.

Nuclear Physics Prize Awarded To Goldhaber At Spring APS Meeting

Laboratory Director, Dr. Maurice Goldhaber, was honored on Wednesday evening at the Spring meeting of the American Physical Society in Washington, D.C.

Dr. Goldhaber was presented with a \$1000 award and a citation for "... his many ideas and discoveries spanning the field of nuclear physics that have played vital roles in establishing the nature of nuclei, the electromagnetic interactions with nuclei, the weak interactions, and the validity of the conservation laws central to all physics."

Dr. Goldhaber was the recipient of the 1971 Tom W. Bonner Prize in Nuclear Physics, which has been presented each year since 1964 as a memorial to Tom Bonner by his friends, students and associates. The memorial fund was endowed for the purpose of establishing a prize of wide significance in the stimulation of research in nuclear physics.

On Wednesday afternoon, at a general interest session, Dr. Goldhaber presented a talk on "Tacit Assumptions in Fundamental Particle Physics."

The Banquet speaker for Wednesday evening was Dr. Edward E. David, Jr., Science Advisor to the President and Director of the Office of Science and Technology. Dr. David's talk, "Is Physics Obsolete?" was heard by several thousand scientists from the US and overseas who attended the four-day meeting in the Sheraton Park Hotel in Washington.

Unemployment Benefits Start After May Tenth

The Laboratory recently announced that it was subscribing to New York State unemployment insurance as of January 1, 1971, and that a new severance pay policy would take effect when State unemployment benefits became payable.

The law requires that laid off employees have 20 weeks of covered, or insured, employment in order to be eligible for unemployment benefits. It was first announced that individuals employed as of January 1, 1971 would have 20 covered weeks on or about May 24, 1971. The New York State Department of Labor has since advised the Laboratory that individuals employed as of January 1, 1971 will satisfy the 20-week requirement if they work through Monday, May 10, 1971. Therefore, any employee terminating on or before Friday, May 7, 1971, due to reduction in force, will not be eligible for New York State unemployment benefits, but will be covered under the present severance pay policy of the Lab.

As previously noted, scientific staff employees are not eligible for unemployment benefits until they have completed 20 weeks of covered employment starting January 1, 1971.

HOSPITALITY COMMITTEE
TEA AND SHERRY PARTY
Wednesday, May 5, 1971
3 to 6 p.m. — Brookhaven Center
featuring
Handicrafts Exhibit

Science Writers Involved In New Program At BNL

In its almost 25 years of existence, BNL has recorded many firsts, and last Thursday and Friday were no exception. Professor Ken Goldstein of the Columbia University Graduate School of Journalism brought nine of his students here for a program that is believed to be a first of its kind.



The Columbia group consisted of: (Standing, L to R) Tim Hackler, Roger Hamilton, Mary Enterline, Nancy Pappas, Warren Weaver and Bill Parsons. (seated) Rona Cherry, Molly Shryer and Christine Tsuchida.

Instead of the usual program of sitting them down and parading speakers in front of them loaded with slides and other mind-boggling information, they performed their own experiments on Thursday, and then on Friday they were assigned individually to different research teams. The scientists were asked to carry on their normal research routine as much as possible. Each student had to report on their Friday experiences just as though they were a member of the working press, which they will be shortly. In addition, each could write also on their experience of Thursday afternoon.



Roger Hamilton, Nancy Pappas, and Tim Hackler watch Manny Hillman (right) prepare an experiment.

Their two-day visit here wound up on Friday afternoon with a give-and-take session which was attended by a number of BNL'ers as well as the students.

The consensus was aptly expressed by Dr. Manny Hillman of the Hot Lab. He stated that the students "were very alert and very interested. They learned that research is largely routine, and the excitement comes when you put the routine together to get the final results, which is sometimes called a 'breakthrough.'

"They were very understanding of what was going on and the program as set up was far superior to any other method previously tried. The individual contact for a period of hours is much better than a lecture and more productive for both the students and ourselves."

This view was echoed by the students themselves and their Professor, Ken Goldstein.



Molly Shryer and Warren Weaver check equipment for experiment at HIRDL. Christine Tsuchida (right) watches the procedure.

The idea for this type of program originated in a discussion between BNL's head of Public Relations, Norb Dernbach, and Ken Goldstein at the time Professor Goldstein called to discuss the possibility of the students coming here on a field trip. Both were looking for something different than what the students were getting in the way of standard type programs where the students were asked to sit and then were talked to for hours.

The students arrived about ten on Thursday morning, were welcomed by



Nancy Pappas sets up equipment for a simple experiment.

Norb Dernbach, and within ten minutes were viewing the film *Brookhaven Spectrum*. Following this they were taken on a "quickie" one-hour tour of the Lab by Dan Schaeffer, during which they managed to see the inside of the HFBR. Following lunch, they were divided into three groups for their afternoon of involvement in research.

One group, including Rona Cherry, Mary Enterline and Bill Parsons, spent the afternoon with Dr. Gar Harbottle in Chemistry, where they explored the properties of high speed thallium atoms that were accelerated by the recoil emission of an alpha particle. They measured the half-life and showed that fast thallium atoms have deep penetration into matter. The subject is connected generally to ion implantation, which is of great interest to the electronic industry these days.

Another group spent the afternoon with Dr. Manny Hillman in the Hot Lab. Nancy Pappas, Tim Hackler and Roger Hamilton performed a small part of a larger experiment by separating a mixture of two compounds using chromatography on alumina. Each student did it in a different way and observed the different results.

Meanwhile, Christine Tsuchida, Molly Shryer and Warren Leary were over in HIRDL with Len Galanter doing food preservation experiments. In the new underwater irradiation facility at HIRDL, using strawberries and potatoes they irradiated half of each product to extend the shelf life with a pasteurization dose. The irradiated products and the controls were then packaged in plastics for the students to take back to Columbia, where they will have to wait for several weeks to see the final results in the strawberries, and up to six months to see results in the potatoes. Bob Mogk and George Woodson helped Len and the students.

On Friday, the students were assigned to research teams as follows.

Mary Enterline was in Medical with Dr. Paul Papavasiliou learning about Parkin-



Ed Sayre (left) and Warren Weaver check data for one of Dr. Sayre's research projects.

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Arrivals & Departures

Arrivals

None

Departures

Louise M. Confessori.....Medical
Thomas A. Piekart.....Accelerator
Thomas P. Sharkey.....Accelerator

Cafeteria Menu

Week Ending May 6, 1971

Friday, April 30

Clam & Celery Bisque
Fried Shrimp w/Tartar Sauce & French Fries .95
Sauted Beef on Rice w/1 Veg. .90
Baked Stuffed Flounder w/1 Veg. .85

Monday, May 3

Onion Soup w/Cheese & Croutons
Corned Beef & Cabbage w/Boiled Potatoes .95
Hero Meatballs w/Hunter Sauce & 1 Veg. .80
Creamed Chicken a la King on Noodles & 1 Veg. .85

Tuesday, May 4

Vegetable Soup
Roast Trukey w/Stuffing, Giblet Gravy, Cranberry Sauce & 1 Veg. .85
Baked Meat Loaf w/Brown Gravy & 1 Veg. .80
Broiled Link Sausages w/Brown Gravy & 1 Veg. .80

Wednesday, May 5

Chicken Gumbo Soup
Steer Liver w/Fried Onions & 1 Veg. .80
Shrimp Chow Mein on Buttered Rice w/Crisp Noodles .85
Ziti w/Italian Meat Sauce & Tossed Green Salad .75

Thursday, May 6

Cream of Mushroom Soup
Spanish Omelet w/French Fries .80
Broiled Chicken Livers w/Bacon & 1 Veg. .85
Braised Meatballs on Noodles w/1 Veg. .80

son's disease and the L-dopa treatment. Also in Medical were Rona Cherry with Dr. L.K. Dahl to learn about salt and high blood pressure, and Bill Parsons with Dr. A. Chanana to learn about Extra-Corporeal Irradiation of the Blood to treat leukemia.

In Biology, Roger Hamilton teamed up with Dr. Charles Hall to learn about Dr. Woodwell's ecology research, and Christine Tsuchida teamed up with Dr. Michael Green.

Tim Hackler spent the day with Dr. Mark Barton in the Accelerator Department; Molly Shryer learned something about hot atom chemistry from Dr. Alfred Wolf; Warren Leary delved into neutron activation analysis with Dr. Edward Sayre in the Chemistry Department; and Nancy Pappas got an insight into physics from Dr. Harvey Wegner at the Tandem Van de Graaff.

One student, Sue Hewitt, was sick on Thursday and could not make the trip. As a result, Meyer Steinberg and polymer concrete had to be skipped this time, but they will probably be called upon next time and thanks go to him and his group for being ready, willing and able.

Special thanks go to everyone at BNL who helped make last Thursday and Friday the rousing success it was, including Dr. R.C. Anderson and Ginny Sayre and her group.

Everyone involved agrees that as these writers embark upon their careers, whether it be writing for science or some other field, they will long remember their two days at Brookhaven National Laboratory as the place where they did a little research, learned a lot more about science and scientists, and where they were not "talked at," but became "involved in."

Weekly Calendar

Tuesday, May 4

Biomedical Engineering Seminar 1:00 p.m., Chem. Sem. Rm., 33 Lewis Rd.
Correlations of Physical Properties of Pulmonary and Artificial Surfactants
M.H. Skolnick, SUNY at Stony Brook

Medical Department Seminar 3:00 p.m., Seminar Rm., 30 Bell Ave.
Chemical Consequences of Tritium Substitution at the Tracer Level
Ralph E. Weston, Chemistry Department, Brookhaven National Laboratory

Wednesday, May 5

Accelerator Department Seminar 11:00 a.m., Snyder Sem. Rm., 35 Lawrence Dr.
Workshop on Particle Physics at Intermediate Energies at California Institute of Technology
Dr. D. Berley, Accelerator Department, Brookhaven National Laboratory

Theory Seminar 11:00 a.m., Sm. Seminar Rm., 20 Penn. St.
Photon Splitting in a Strong Magnetic Field
S.M. Adler, University of Massachusetts

Thursday, May 6

Biology Seminar* 11:00 a.m., Biology Library, 50 Bell Ave.
Neurochemistry: Studies on the Metabolic Determinant of D-Galactose-Induced Neurotoxicity in the Chick
W.W. Wells, Michigan State University

Particle Physics Seminar** 11:00 a.m., Seminar Room, 20 Penn. St.
Duality and Deep Inelastic Electron Scattering
F. Gilman, SLAC/Rockefeller University

*Note date change

**Particle Physics Seminar by R.K. Adair has been rescheduled for May 27

Tuesday, May 11

Biology Seminar 11:00 a.m., Biology Library, 50 Bell Ave.
Cytochrome c: The Structure and History of a Protein
Richard E. Dickerson, California Institute of Technology

Medical Department Seminar 3:00 p.m., Seminar Room, 30 Bell Ave.
Radioactive Chelates and Their Applications in Nuclear Medicine
Fazle Hosain, D. Phil. (Oxford); Assistant Professor, The Johns Hopkins Medical Institutions

Wednesday, May 12

Chemistry Seminar 3:30 p.m., Chem. Seminar Rm., 33 Lewis Rd.
Mechanisms of Synergic Solvent Extraction
Harmor. L. Finston, Brooklyn College

Thursday, May 13

Particle Physics Seminar 11:00 a.m., Sm. Seminar Rm., 20 Penn. St.
Cosmic Ray Results on Proton Interactions above 100 GeV
L.W. Jones, University of Michigan

Friday, May 14

Nuclear Physics Seminar 2:00 p.m., Sm. Seminar Rm., 20 Penn. St.
Heavy Ion Transfer Reactions
B.G. Harvey, Lawrence Radiation Laboratory, University of California

BNL French Group

At its next meeting, the French Group will show the film "Boudu Sauve des Eaux" (Boudu Saved from Drowning) written and directed by Jean Renoir (1932) and featuring Michel Simon and Charles Grandval.

Much of the action of this film takes place along the Left Bank of the Seine. Boudu is a tramp who tries to drown himself but is rescued by a nearby bookseller. Boudu accepts his salvation as his due and proceeds to turn his benefactor's household into chaos.

All movie lovers are cordially welcome. Admission \$1.50. Refreshments will be served.

Date: Wednesday, May 12

Time: 8:15 p.m.

Place: Berkner Hall

Softball Notes

Most everyone is now aware that the BNL Softball Leagues will swing into red-hot action on May 17th.

There are a few points of interest concerning the Leagues. First - fields #2 and #3 are now available for practice sessions and reservations for use of these fields can be made at the Recreation Office. Fields #1 and #4 are not yet ready for use. Secondly - volunteers from the Men's Softball League are needed to act as umpires for the Mixed League. If you have an abiding passion to be one of those "men in blue" please contact Georgia Irving, Ext. 2186, or Carmen Falkenback, Ext. 664, and volunteer your services.

Energy Seminar to Hear Report On the Sternglass Analysis

At 8 p.m. tonight, April 29, in the North Room of BNL Center, Dr. F. J. Shore will discuss the controversial analyses of Dr. Ernest Sternglass which purport to demonstrate that radiation from nuclear power plants is causing excess infant mortality. Dr. Shore, professor of physics at Queens College, in collaboration with Drs. John Bateman, James Robertson, and Andrew Hull, has devoted intensive study to the Sternglass data during the past year.

Environment Awareness Day



The relationship between man and nature in energy requirements is explained by Buford Holt, Biology, to a group of students and teachers.



Bob Brown, Meteorology, explains Brookhaven's program in air pollution research as accomplished at the Meteorology Department.

Stony Brooks Events

Films, theater productions, and lectures, sports, colloquia and carnival activities are among the events open to the public at the State University of New York at Stony Brook.

Friday, April 30

"The Madman and the Nun," a short play by Stanislaw Witkiewica, will be performed by the Theater Department at 8 p.m. on Friday and Saturday in the new University Theater, Building B on the South Campus, admission \$1.00.

Alan Watts, author of "The Book" and "The Joyous Cosmology," will speak at 8:30 p.m. in the Gym.

Saturday, May 1

As part of a Children's Film Festival five movies - "Woof, Woof," "A Day with Timmy Page," "Rich Cat, Poor Cat," "Poems of Lewis Carroll" and "Sunday Lark" - will be shown at 10 a.m. and 2 p.m. in the Stony Brook Union Theater, admission 50¢.

Sunday, May 2

The University Band under the direction of Simon Karasick will play a pop concert featuring "Roman Carnival Overture" by Berlioz, "Miniature Set" by Donald White, "Medley from 'The Sound of Music'" by Richard Rogers, "Canzona" by Peter Mennin, "Symphonic Songs" by Robert Russell Bennett and highlights from "West Side Story" by Leonard Bernstein at 8:30 p.m. in the Women's Gym.

"Splendor in the Grass," a film starring Natalie Wood and Warren Beatty, will be shown at 9 p.m. in the Dreiser College Lounge.

Tuesday, May 4

An exhibit and sale of original etchings, woodcuts, lithographs and manuscript pages from the Roten Galleries of Baltimore will run from noon to 10 p.m. on Tuesday and Wednesday in the Stony Brook Union Art Gallery.

A "music potpourri" featuring Stony Brook undergraduate musicians will be presented at 8:30 p.m. in Room 105 of the Lecture Center.

Wednesday, May 5

Paul Gray, a Stony Brook graduate student, will give a flute recital featuring works by Bach, Schubert and Darius Milhaud at 8:30 p.m. in Room 105 of the Lecture Center.

William Gaf, a Stony Brook graduate student, will conduct the Bel Cantorum, a St. James choral group, in a concert featuring works by Bach, Mozart, Brahms, Schubert, Purcell and Gregg Smith at 8:30 p.m. in Room 105 of the Lecture Center.

"Before the Revolution," Bernardo Bertolucci's film based on Stendhal's "The Charterhouse of Parma," will be shown at 8:30 p.m. in Room 100 of the Lecture Center.

Basketball Championship Teams



The Nationals, of the Universities League, included in their championship team, (L to R, front) Walter Hulak, Frank Folde, Richard Sutter, Captain Ruben Goldstein. The rear row consists of: Roland Green, Pat Rapp, Alan Luther, Ken Ellis, and Martin Blume. Not present for the picture was Leroy Lamb.



The Knacks, Associated League Champions, were represented by: (L to R, front) Jim Hooper, Jack Brennan, Ed Gill, Greg Ogeka, and Bob Kowalski. (Rear Row) Dean Easler, Bob Jansson, Bob Casey (Captain), Andy Fogarty, Gil DeGregory, and Jack Detweiler.

Basketball Champs

Last Thursday the Basketball League was host to an end of season party at the Recreation Building for all those who participated in the activity throughout the year. The cost-free evening included basketball films, free beer and a spaghetti and meatball dinner.

Trophies and merchandise point certificates were presented to the League championship teams by Bob Fuchs, Chairman of the BERA Awards Committee.

Basketball Chairman Jim Hooper, who hosted the party, was given a round of applause by his players for the evening's success and his leadership throughout the year.

Rifle Club Shoot

The Large Bore Rifle Shoot will begin on Saturday, May 8th at 9:00 a.m., at the Brookhaven Town Medford Range.

In case of rain the meet will be postponed to the following week.

Sighting in time will be allowed. Family members may participate. For further information call Frank Rumph, Ext. 7581.

Camera Club to Select Color Slides

The next meeting of the BNL Camera Club will be held on Tuesday May 4th at 8 p.m. at the Recreation Building of the Apartment Area. All members and BNL amateur photographers are invited to bring color slides which they would like to exhibit during the week of May 17th.

Any Black and White prints which have not yet been mounted should also be brought to the meeting for help in mounting them. —E. Hageberg—J. Kopp

Bowling News

Grace Fales

Red League

The Old Timers are the Champions for this League having taken both halves. Congratulations Old Boys. Second place still has to be decided between the Alphas and the Bubble Boys, who won the second half. Ralph Nelson takes high average for the season with his 186. The fellows tuning up for the Sweeps next week were E. Malcolm 220, G. Waldbauer 210, N. Parrinello 209, J. Sucher 203, and E. Reams 201.

Green League

No report this week.

Pink League

The Hopefuls are undisputed Champs for the Pink League. After the Pinsplitters took the first game, the Hopefuls went on to a grand and glorious victory led by Audrey Bangel's 226 (earning a patch for 100 pins over average), and assisted by "Mike" Mayhew's 171. Great bowling gals - Congratulations. We look forward to more of this in the BNL Championship Roll-off - GOOD LUCK. Other highs for the night were Renie Rosati 172, and Grace Fales 182.

Black and Blue League

The AR's will represent this League in the Laboratory Championship. They could have done nothing without the bowling of "Cannonball" Marge Belligan who actually won the series for them. They presented her with a paper scroll in honor of her ability.

Attention All Rooters: The BNL Championships will be held at Port Jeff Bowl on Saturday, May 8th, at 2 P.M. Come on down and root for the team of your choice. The roll-offs will be on Lanes 21 thru 24. **GOOD LUCK TO ALL.**

Classified Advertisements

Positions Available

The Brookhaven Bulletin each week will list job openings which have come to our attention and may be of interest to Lab employees. Each listing will be repeated (if still available) only once.

ELECTRONIC ENGINEER - Mini-computers, interfacing. Zygo Corporation, Middletown, Connecticut.

MEDICAL TRANSCRIBER - To work from a dictaphone machine. Bayview Community Hospital, Mastic Beach, New York.

SUPERINTENDENT OF BUILDINGS AND GROUNDS - Central High School District No. 3, Merrick, New York.

ELECTRO-OPTICAL TECHNICIAN - Background in lasers and electronics. General Telephone & Electronics Laboratories, Bayside, New York.

ADDRESSOGRAPH OPERATOR - Full or part-time. Anthony Addressing Service, Patchogue, New York.

SALESMEN AND SALES MANAGERS - Connecticut General Life Insurance Company, Melville, New York.

PROGRAMMERS - To work on PDP-8 computers; industrial systems applications in areas of gas and petroleum, pipe lining, water treatment and water and air pollut on. Should have 1-2 years' experience in real-time language. Data-Master Corporation, Glen Cove, New York.

SALESMEN (10 NEEDED) - Part or full-time for Cutco Division of Alcoa. All areas of Long Island. Absolutely no canvassing involved. Apply care of BNL Personnel Office.

PLANT SYSTEMS OPERATOR - Temporary position for six months. Job includes de-bugging of electrical and mechanical equipment. Vermont Yankee Nuclear Power Corporation, Rutland, Vermont. Call Robert Powell, extension 663, for further information.

STORE MANAGERS - Some basic bookkeeping helpful; ability to handle people. Mallory Restaurants, Suffolk and Nassau Counties.

ELECTRICAL ENGINEER - To work in facilities engineering department, power distribution, high voltage, etc. Minimum eight years' experience. Gruman Aerospace Corp., Bethpage, New York.

SALESMEN - Full training program. Mutual of New York, Westbury, New York.

DIGITAL ENGINEER - E.E. degree and three years' experience. Gruman Aerospace Corporation, Bethpage, New York.

SIMULATION ENGINEER - E.E. degree and two years' experience. Gruman Aerospace Corporation, Bethpage, New York.

CIRCUIT DESIGN ENGINEER - E.E. degree and two years' experience. Gruman Aerospace Corporation, Bethpage, New York.

MAINTENANCE MAN - Henry Perkins Hotel, Riverhead, New York.

SALESMAN - Prudential Insurance Company, Smithtown, New York.

SENIOR SYSTEMS AND PROGRAMMING MANAGER - To head up all application systems and programming; converting from IBM system to new RCA-3 equipment. Hofstra University, Hempstead, New York.

CHIEF OF BUILDINGS ENGINEER - Maintenance, etc. Veteran's Administration Hospital, Northport, New York.

ENGINEER - Electrical systems, pipe fitting, etc. Veteran's Administration Hospital, Northport, New York.

DIETICIAN - Licensed; some experience. Bayview Community Hospital, Mastic Beach, New York.

INDUSTRIAL ENGINEER - B.S. in industrial engineering; 2-3 years' experience in manufacturing, including cost reduction, work simplification and methods. General Instrument Corporation, Hicksville, New York.

ACCOUNTING CLERK - Clerical typist with training in bookkeeping. General Telephone & Electronics Laboratories, Bayside, New York.

CHEMIST - Ph.D. in physical chemistry, chemical engineering or electrochemistry. General Telephone & Electronics Laboratories, Bayside, New York.

METALLURGIST - B.A. or M.A. in metallurgy or material science. General Telephone & Electronics Laboratories, Bayside, New York.

TECHNICAL TYPIST - Knowledge of scientific terminology. General Telephone & Electronics Laboratories, Bayside, New York.

MECHANICAL ENGINEERS - With background in isotope shielding analysis and job estimation. Radiation International, Parsippany, New Jersey.

COOK - With some experience. Woodhaven Adult Home, Port Jefferson Station, New York.

SURVEY BOAT OPERATOR - New York District, Department of the Army, New York, New York.

TYPIST/CLERK - Department of the Army, New York, New York.

CLERK/STENOGRAPHER - Department of the Army, New York, New York.

CIVIL ENGINEERING TECHNICIAN - Department of the Army, New York, New York.

CIVIL ENGINEER - Secaucus Area, Department of the Army, New York, New York.

TYPISTS (2) - Experience on selectric or executive. Brookhaven Memorial Hospital, Patchogue, New York.

REGISTERED NURSES - Rotating shifts. Medical Department, BNL.

For further information, please contact Employment Supervisor Ext. 2109 or 2513.

Autos & Auto Supplies

TIRES - (5) 8.55x14, \$25 for all. F.J. Keute, Ext. 2580, GR5-2287 after 6.

69 TOYOTA CORONA - 2 dr htdp, auto trans, r/h, new w/w tires, reverb, clean, \$1175. 234-6306 after 6.

66 SCOTT TRAILER - 7x15, good cond. 732-4857 after 6:30.

66 FORD FAIRLANE 500 - Ps, auto trans, 40,000 mi, new brakes, new batt, new snows, excel cond. \$975. Artie, Ext. 565.

61 CHEVY BEL AIR - 6 cyl, std trans, r/h, good cond. \$150. H. Geist, Ext. 2382 or 475-7422.

TOYOTA REPAIR AND TUNE-UP GUIDE - Publ by Chilton. Compl specifications, troubleshooting, tune-up and repairs. Neal, Ext. 7488.

63 FALCON STATION WAGON - Lt blue, auto trans, 6 cyl, good cond. \$125 firm. Barrett, 698-1358.

69 VOLVO 142S - 40,000 orig mi, std trans, pwr assist brakes, blue, good rubber, shop manual, 2 extra wheels. J. McKoy, 732-5271.

4-15" RIMS - 2 w/7.35x15 tires, will fit Rambler or Studebaker Lark. \$10 all four. Richie, Ext. 7228.

64 JEEP WAGONEER - Ps/pb, auto trans, 4 wheel dr, warn-omatic hubs, wide tires, clean. Tony, AT6-2430.

WHEELS 14" PONTIAC - \$5 pr; 13", 5 lug, \$5 pr; 6.95x14 tire, \$4. Bob, Ext. 2450.

69 RENAULT - R16, clean, econ. low mileage, needs drive shaft, driveable. 281-5262.

64 CHEVELLE - SS, 2 dr, auto trans, r/h, console, bucket seats, very good running car. \$450. Jake, Ext. 2580.

67 DODGE - 1/2 ton pick-up. 6 cyl, 8 ft bed, r/h. \$900. Nancy, 666-4027.

DUNE BUGGY OR DRAGSTER - Steel bodied, altered, VW powered, running, must be seen to be appr. \$200. 286-0436.

68 CADILLAC ELDORADO - Full pwr, tilt wheel, low mileage, loaded w/extras. Mint cond. \$3700 firm. Rosalie, Ext. 2588.

HOT ROD - 1923, T-bucket, 392 hemi Chrysler hydro trans. 475-4459 after 6.

68 CAMARO - SS-396-325 hp, 4 speed Hurst, position rear, tach, full gauges, pb, 27,000 mi. Excel cond. \$1800. Louis Ruppert, Ext. 382.

68 FORD LTD STATION WAGON - 302 cu in, auto trans, ps/pb, 10 psgr, excel cond. \$1950. Ext. 7617.

IGNITION TESTER - Looking for new owner, only \$5. Ext. 2829.

67 SUNBEAM MINX - 4 dr sedan, auto trans, r/h, good cond, 25 mpg. \$850. Jake, Ext. 2580.

61 AUSTIN HEALY - "3000". Mech. excel. Needs body & int. work. Gayle, HR3-7486.

2 TIRES - Whitewalls, 8.45x15, 2 for \$17.00, plenty of rubber. Call Whitey, Ext. 2179.

Boats & Marine Supplies

14' LUGGER - Jerry, 281-5289 after 4.

8' PRAM - Plywood w/2 coats of Dynel cloth w/ plastic resin. 281-8622 eves.

15' PENNYAN LAPSTRAKE - 35 hp o/b, trailer, accessories. \$650. 475-2966.

13' RUNABOUT - 40 hp Johnson, very good cond, new windshield, extras. \$425. Must sell. Freddy, Ext. 565.

3 HP EVINRUDE - 1969, excel cond. Less than 5 hrs. \$100. Charlie, Ext. 7558.

15' RUNABOUT - Little Dude trailer, 25 hp Evinrude, all extras, excel cond, must sell. Charlie, Ext. 2340.

16' GLASPAR RUNABOUT 1967 - 40 hp elec start Johnson, compl Navy top, life jackets, elec horn, Lil Dude tilt trailer, excel cond. \$1000. 289-1848 after 7.

REGULATION - Power squadron port & starboard bow, insignias chrome on copper. \$5. New. Tom Honnett, Ext. 7444.

16' RUNABOUT - 35 hp, elec start Johnson, 2 tanks, top, extras, as is, \$300. R. Reilly, Ext. 2381.

18' STARCRAFT - 1970 fisherman's model full custom adj. weblon top, windshield, like new, \$900. Steele, AT6-3786.

40 HP JOHNSON MOTOR - New w/controls. 878-2818 after 6 or 878-2510 days.

12' SEARS GAME FISHER - 7 1/2 hp Evinrude, trailer, \$275. Charlie, Ext. 7828, 588-6879.

SUNFISH - Plywood, reg. size. Epoxied and epoxy paint fin. Yellow and white. Sails and hand trailer. Good cond. Ann, Ext. 7248.

20' FIBERGLASS CRUISING SLOOP - Signet 20, sleeps 4, fully equipped, 4 bags of sail, many extras, good buy. Ext. 2993, 744-9436.

7 1/2 HP EVINRUDE - Plus stand, best offer over \$75. Bob, Ext. 2450.

PROPELLER - Michigan (bronze), 10 1/2"x11", for 25-40 hp Johnson or Evinrude eng. Cost \$22, price \$10. F.J. Keute, Ext. 2580, 475-2287.

Miscellaneous

BRIGGS & STRATTON - 8 hp, Mod 23A, horiz shaft, like new, heavy cast iron block. \$50. Ext. 597, 286-0436.

BOLENS RIDING TRACTOR - 7 hp Kohler, eng new, w/snow blower & 36" reel mower attachments. Asking \$200. Ext. 597, 286-0436.

VACUUM CLEANER - Hoover canister model w/all attachments, 1 yr old, excel cond. \$25. L. Jacobson, Ext. 477.

CHILD'S TABLE & CHAIR SET - Sm hardwood table w/2 matching chairs. \$6. R.L. Monaghan, Ext. 2852.

YELLOW LABRADOR PUPPIES - For adoption to loving homes w/fenced yards, 2 males whelped 4/12/71, no papers, wonderful offer for Labrador lovers. WA9-4173 eves.

BABY CRIB - Birch, can be converted into youth bed (extra side rails), \$12; high chair, \$5; wood playpen & pad, \$6. 727-1617.

PLAYPEN - Folding wooden, std 40"x40". \$8. R. Monaghan, Ext. 2852.

AIR CONDITIONER - Sears 18,500 BTU, 3 spd, thermostat, wood-grain front panel, 220 v. \$175. D. Fay, Ext. 613.

SCUBA TWIN HOSE REGULATOR - Used about 10 times (in pool only), amf Voit "Polaris 50." Les, Ext. 7762.

KITCHEN SET - Wood grain formica, 4 beige chairs, \$30; old brass bed, needs restoring, \$30; wood playpen, \$5; high chair, \$5. 727-1617.

TRIKES - Lg size (16"), \$7; sm size (12"), \$3; beginner's size (16") bike, w/training wheels, for boy or girl, \$10. 732-5945.

IBM SELECTRIC TYPEWRITER - W/2 cylinder balls, 1 script & 1 pica type, as good as new. Orig cost \$575, sell \$325. Ext. 664.

ALUM POOL LADDER - For 4' above ground pool. \$10. Jake, Ext. 2580.

GE AIR CONDITIONER - 16,000 BTU, 110V, fits window opening min 32" w x 18" h. \$100. Ext. 7536.

THINK MINK - Natural pastel full length coat, size 16, 4 mos old, owner moving to Florida. \$600. Ext. 7536.

COMMERCIAL RUG SHAMPOOER - George, Ext. 2231.

SMALL GARDENS ROTOTILLED - John, 924-3528 after 5:30.

WASHING MACHINE - Norge model, has seen little use, excel buy for right person. 924-8213 after 6.

21" TV - B&w, lg console. \$40. Ext. 2931.

TOOLS - Set of 8 deep wall sockets, 3/8" drive, w/case & set of 7 sockets, 3/8" drive w/case. Ext. 2931.

CHAIN LINK FENCE - 180'x4', incl 20 posts & 4 corner posts, you dig. \$35. 924-6972.

DANISH MODERN SOFA - W/new red & orange check covers; 1 slat-type coffee table & 2 matching end tables. 473-8011.

5 HP ROTOTILLER - \$140. 286-8062.

OLD BOOKS - Foreign coins, National Geographic magazines, old phonograph records. O. Booker, Ext. 2411.

SET OF 4 SWIVEL CHAIRS - Vinyl covered. \$15. Bob, Ext. 433, 289-2159 eves.

BICYCLE - Sting-Ray style, 3 spd twist grip control, 24" for extra speed, good cond. Asking \$45. 286-0295 after 6.

3 ELEC MOTORS - 1 oil burner gun, 1 elec hedge cutter, \$25 takes all. MO7-9218 after 6.

LEATHERETTE FURNITURE - Chrome-framed, suitable for den or fam rm, 1 couch & 4 arm chairs. \$30. JUB-7989 after 6.

1 LG POKER TABLE - \$40; 1/2 hp Gould water pump, \$30. Bob, Ext. 2450.

ILLUSTRATED ENCYCLOPEDIA OF GARDENING - 14 vols, some color. \$10. E.D. Rea, 281-8087 after 6.

VINTAGE RADIO-PHONO CABINET - Scott, lg, solid mahog, fair cond, you haul, what am I offered? M. Dienes, Ext. 2235.

KAPUT RADIO-PHONO - For teenager to experiment with or for workshop demonstration, free if you haul it away. M. Dienes, Ext. 2235.

WIGS - All styles, \$13-\$17. C. McKoy, 732-5271.

SIAMESE KITTENS - Male & female. \$15. Linda, Ext. 6262.

HARDWICK STOVE - New cost \$170, asking \$100. 878-2510, 878-2818 after 6.

BICYCLE - 20" girls, red, good cond, \$10; spreader, for fertilizer or grass seed, \$5. F. Toldo, Ext. 2473.

BANJO - 4 string, 2 mos old, w/case. \$50. George, Ext. 2248.

BABY TENDA - Good cond. \$10. George, Ext. 2248.

ELEC LAWN EDGER - \$5. Ann, 286-2280.

WOOL RUG - 12x15, reasonable; fiber rug, 9x12; wool runners 10' & 7'. Ann, 286-2280.

PROPANE FUEL CAMPING LAMP - Single mantle, used 1 season. \$10. D. Miller, 281-8579.

LAWN EDGER & TRIMMER - Elec, Black & Decker, \$15; Yard-man silent hand reel mower, nearly new, \$20. Ext. 7652.

ANTIQUÉ DRESSER - Very good cond, make offer. 281-5827.

CAMERA PAN HEAD TRIPOD - \$6. Ext. 597, 286-0436.

7 CU FT FREEZER - Good working cond. \$25. D. Miller, Ext. 2411, 281-8579.

OLD HAND LAWN MOWER - Recently sharpened, w/grass catcher, you pick up, what am I offered? M. Dienes, Ext. 2235.

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

CENTER MORICHES - 4 bedrm ranch, 2 baths, breezeway, garage, on 1 acre in Center Moriches. Call Ext. 2123, 878-1002.

For Rent

BUNGALOW - On LI Sound at Jamesport, avail June & July, will rent for 2 wk intervals. \$150/wk. Dick, Ext. 601, 929-4551.

3 RM APT - No util, Cornell campus, avail 6/15-9/1. \$150/mo. Alice, Ext. 351, 473-0178 eves.

ROOM & BOARD - For college or business girl. Priv house in Pt. Jefferson. 473-1523 after 5.

Wanted

RASPBERRY BUSHES - & strawberry plants for community organic garden. M. Hall, Ext. 7629, 878-0817.

'65-'66 STATION WAGON - Chevy or Tempest. Bob, Ext. 2450.

OUTBOARD - Lt weight, 25 hp. Al, Ext. 2361.

CHAIN SAW WORK - Tree cutting, lt hauling, trimming, clean-ups, done reasonably. 728-4481.

GARDEN TRACTOR - W/plow, disc, etc. George, Ext. 2231.

PIANO STUDENTS - Experienced teacher, good w/ beginners as well as advanced students. 929-6729.

POSITION - Sitter/mother's helper, have experience, own trans, reference, avail daily/weekly 6/25-7/31. A. Schiro, 286-8234 after 4.

HOME FOR MALE DOG - Part collie, 1 1/2 yrs old good w/children, likes to be outdoors. Ext. 2931.

TELESCOPE - 4" or 6" reflector or refractor, for young beginner, prefer one in operating cond but will consider others. Ext. 2337.

PERSONS INTERESTED - In forming BNL group or charter flights. R. Horwitz, Ext. 2725, 212-275-0937 after 6.

USED CLOTHES PATTERNS - Little girls size 6 through 8, will pay nominal fee. Barbara, 744-2183.

HOMES - For 2 adorable kittens. 281-5289.

QUEEN SIZE BOX SPRING - Bike w/training wheels. Kinsey, 286-0407.

SNARE DRUM - For aspiring young musician, reasonable. Warren, Ext. 7677.

12V ELEC TROLLING MOTOR - 585-8322.

BABY STROLLER - Must have 10" or larger wheels. Bob, Ext. 629, 325-0626.

TYPING - Term papers, letters, corresp, will type at home. Fran, Ext. 7609 (M,W,F), 722-3105 after 5:30.

TWIN STROLLER - In good cond. LeRoy, Ext. 567.

WOMEN'S GOLF CLUBS - Bag & cart. Alice, Ext. 7270.

HELP - To build a ferro-cement sailboat, you might begin by buying my 17 fiberglass sloop or tent camper, both dirt cheap. Don, 286-1205.

GOOD HOMES - For 2 kittens, half siamese. One Grey with white markings. Call Whitey, Ext. 2179.

Carpools

DRIVER WANTED - To compl existing carpool from Exit 52 (or further west) on LI Expwy. Elliot, Ext. 2103.

INTERESTED - In forming carpool or joining existing one in Wading River area. Bob, 929-6729 after 6.

DRIVER WANTED - To compl existing carpool from Patchogue. Bob, Ext. 2265.

Lost & Found

FOUND - Wrist watch in 200 MeV linac bldg. E. Meier, Ext. 7821.

Classified Ad Policy

Deadline is 12 noon Friday for publication the following week.

- The Brookhaven Bulletin'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.
- Ads for material acquired for resale in association with a full or part-time business cannot be accepted.
- Firearms offered for sale or trade may not be brought on site.

- Ads not carried because of space restrictions will be held for publication in the next issue.
- Ads are run only once and must be resubmitted if they are to be repeated.
- Ads should be restricted to 20 words or less and typed or printed on the form provided, and must bear the employees signature.

<input type="checkbox"/> For Sale: Auto & Auto Supplies	<input type="checkbox"/> Wanted	Check <input checked="" type="checkbox"/> the heading applying to your ad. Print or type your ad in 20 words or less.
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