



Summer Seminars End With Puleston Talk

"Man and the Environment," a description by Dennis Puleston, of the work of the Environmental Defense Fund in bringing nature's case against man into the courtroom, was presented as the last lecture in the Brookhaven Summer Seminar Series.

Puleston, retired head of BNL's Information Division, is now Chairman of the Board of Directors of the Environmental Defense Fund. EDF has been active in the past few years in bringing to the courts cases of insult to the environment ranging from use of DDT to spray Suffolk's mosquitos to the building of a canal through the Everglades.

On the local scene, Puleston described how the population of ospreys on Long Island has dropped since the use of DDT. He told of recent counts of osprey nests on Gardiners Island that showed a drastic drop in number of birds hatched each year since DDT was introduced, even though DDT has never been used on Gardiners Island.

He also mentioned the declining population of frogs, butterflies and reptiles in Suffolk in recent years, all DDT victims.

In other parts of the United States examples of massive insults to the environment listed included the "Four Corners" power plants, which included the strip mining of Black Mesa; the Alaska Pipeline project; and the exploitation of the Maine seacoast by the oil industry.

Puleston reported that the EDF has received a Ford Foundation grant and now lists more than 20,000 members. "It has been an exciting and rewarding thing to work in the courtroom to help the environment," he said, "especially if you have a good science behind you!"

On September 15, Dennis Puleston will deliver the 104th Brookhaven Lecture titled "Defending the Environment - A Case History."

Still Room For Bowlers

The deadline of last week has been extended, in certain instances, to give you additional time to round up your team or to join an existing one.

The season is scheduled to begin the week of September 13.

At this writing we still have room for bowlers in the Mixed, Men's and Ladies' Leagues.

AEC Man Retires



The Brookhaven Area Office of the U.S. Atomic Energy Commission has announced the retirement of Harold L. Bates on August 25, 1971 after completion of over 35 years of service with the Federal Government. Mr. Bates' civilian career with the Government began in 1936 with the War Department, U.S. Engineer Office, in Providence, Rhode Island. Entering the Navy in 1942, Mr. Bates served three years during World War II. In 1946 he joined the staff of the Atomic Energy Commission's Brookhaven Area Office. He has held successively responsible positions in the areas of procurement and contracting and in property and supply. For the past nine years Mr. Bates has served in the position of Contract Specialist. During this period he received an award for sustained superior performance.



Dennis Puleston (right) and Don Metz chat before Puleston's lecture on "Man and the Environment" last Thursday in Berkner Hall.

Dispersion Studies Will Aid Allergists

By Janice Johnson

Hay fever sufferers beware, for the period from mid-August to mid-September marks the ragweed pollen season that reaches its peak at around the beginning of September. Since much of the eastern two-thirds of the United States constitutes a ragweed pollen source region and a single ragweed plant can release more than a million grains per day during the height of the pollination season, the high concentration of airborne ragweed pollen during late summer is not surprising.

While attention has mainly focused on man-made air pollutants, comparatively little is known about natural pollutants, such as pollens, and about the percentage of these particles released that travel appreciable distances. Recent experimental studies have been conducted by BNL's Meteorology Group under the direction of Gilbert Raynor to gather information on ragweed pollen's dispersion patterns.

Such information will prove valuable to allergists and plant breeders, as well as to meteorologists concerned with problems of dispersion and air pollution.

Funded by a three-year federal Public Health Service grant that began Oct. 1, 1970, the project includes several phases. One phase concentrates on medium range transport and dispersion of pollens. Whereas earlier experiments gathered data on the spread of material from sources to relatively short distances of less than half a mile, this study will focus on pollen dispersion in the intermediate range from a few miles up to several tens of miles.

Pollen Influx

The researchers hope to find out if a big influx of pollen comes in from the west or if there is something else associated with westerly winds which causes local plants to pollinate profusely. Using their sampling instruments in light aircraft chartered from Mid Island Air Service, they will make flights from the Lab westward as close to New York City as possible and take samples at different altitudes and various distances.

"If we do indeed have this influx of pollen," Raynor stated, "we expect to see the concentration of pollen gradually increase on the average as we go westward."

Upstate Studies

Similar experiments will be conducted in upstate New York under the supervision of Eugene Ogden, State Botanist. Some work has already been done in the Adirondack Mountain region which is essentially a ragweed-free area. Yet, above the trees the researchers have found appreciable quantities of airborne ragweed pollen, particularly with southwest winds.

Here, too, they will be making flights with the southwest wind and taking samples at different distances and altitudes to note how concentrations vary. "We would expect," said Raynor, "that at lower altitudes where turbulence brings air into con-

tact with the surface of the ground and vegetation, the loss of material from the ground upward would be more rapid. Thus, the concentrations at higher altitudes would be greater than at lower altitudes."

Over the Sound

Another phase includes the rate of loss of pollen across a source-free region. Considering all of Long Island as a source area, the plane will fly from the center of the island north over Long Island Sound to Connecticut, and samples will be collected enroute to see how the concentrations decrease with distance.

They will do the same thing in reverse for northerly winds. Since each flight takes a number of hours and since the pollen concentrations change with time, sources of error are eliminated by flying both directions and then averaging the data.

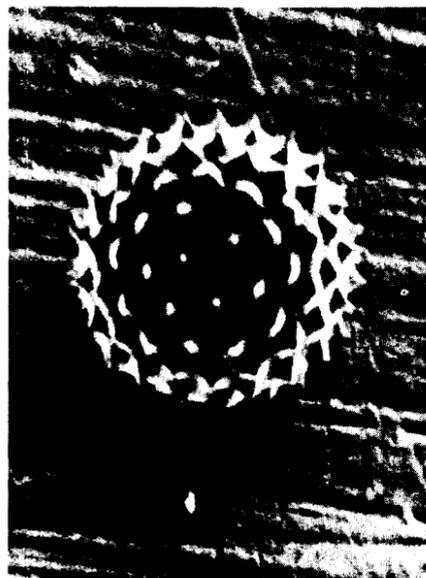
Related Projects

Although this documentation of pollen dispersion patterns is considered the most interesting and significant, three other related projects are being conducted. One involves the penetration of pollens into forested areas, which will fill in gaps in previously obtained data.

Another study centers around the interest in the use of vegetation as a means of reducing air pollution around cities. Raynor's group will look at the effectiveness of a strip of vegetation, such as a hedgerow, in removing particulate matter.

The third project will evaluate the representativeness of pollen concentration measurements with respect to space and time by taking a series of samples at increasing spatial separation and by comparing a series of short period samples to longer period averages.

(Continued on page 2)



About 20 microns in diameter, this single ragweed pollen grain (Ambrosia) is magnified 3750X by the scanning electron microscope. —Micrograph by J. Kelsch

Union Turns Down End-Strike Offer

At a negotiating meeting on Thursday, August 19, called by the Federal Mediation Service, officials of Local 2230 IBEW rejected the Lab's proposal to end the strike and return to work.

Both the Laboratory and the Union were informed by Federal Mediator Bottone that they were requested to terminate the current work stoppage immediately.

The Laboratory proposed to the Union that members return to work on Monday, August 23 under the terms of the contract that was in effect on June 30, and that the parties continue negotiations based on wage settlement guidelines to be announced shortly by the Cost of Living Council.

An alternate proposal made to the Union was to have the employees return to work immediately under a letter of understanding incorporating issues on which agreement had been reached, and provided that negotiations on wages would continue based on the Guidelines.

New wage rates arrived at through negotiations would be effective at the end of the wage freeze. During the freeze, Executive Order No. 11615 prohibits the Lab from paying IBEW members wage rates that are in excess of those that were in effect before the strike began.

As of the last negotiating meeting held before the wage freeze was announced, the Lab and the Union had agreed in several contract areas. A major point of disagreement was in the area of wages.

The Laboratory increased its wage offer to 6½, 7½, and 7½% for a three year contract. The Union countered with a demand for 9% and 10% for a two-year contract, and talks were terminated at this point.

Since the Lab's offer must be cumulative, the three-year wage package proposed would result in a total increase of 23% in base rates by July 1973. The current average hourly base of \$4.30 would rise to \$5.29 by that same date. Average annual base wage would rise from \$8,944 to \$11,000.

Agreement was reached on changes to the retirement and medical plans.

If the Union had accepted the alternate proposal made by the Laboratory, striking employees could have returned to work with the new fringe benefits going into effect January 1, 1972. New wage rates, when agreed on, would take effect as soon as the wage freeze or any extension of this wage freeze was lifted.

Both proposals made to the Union at last Thursday's meeting included the provision that if negotiations were not successful after the employees returned to work, the Union would be free to strike at the end of thirty days following the termination of the freeze.

The Union rejected both of the Laboratory's proposals and also refused to comply with the request of the Federal Mediation and Conciliation Service to return to work. Commissioner Bottone of the Federal Mediation and Conciliation Service has called a meeting of the negotiating teams for Wednesday, August 25 at 2:30 p.m. in Plainview.

Science & Environment Focus Of 13th Annual Youth Conference

Opening in Chicago on November 11 will be the 13th Annual National Youth Conference, which will focus this year on Science and the Environment. As in previous years, R.C. Anderson, Assistant Director, Office of Scientific Personnel, will be the scientific consultant to the conference.

The conference is sponsored each fall by the Investor-owned Electric Companies, the National Science Teacher Association, and the National Association of Secondary School Principals.

More than 50 companies are planning to participate in the conference. Total attendance, including students, teachers, company representatives and observers is expected to be greater than 700.

Physics And Humanity Is Her Game —Trudy Goldhaber Is Her Name



Mrs. Goldhaber feeds experimental data into the computer.

The philosopher Nietzsche was only one among many people who subscribed to the theory that when a woman is inclined to learning, she is not very feminine. This attitude is unbelievably yet undeniably still held by many people.

Dr. Gertrude Scharff-Goldhaber of the Physics Department (a notable entry in *American Men of Science*) is joining the attack on such feelings that for thousands of years have locked women into an inferior position and sentenced them to restricted lives.

"Trudy" Goldhaber has recently joined a committee established by the American Physical Society to make recommendations on how to solve specific problems of women in physics, such as the nepotism rules existing in many universities. Frequently, a husband and wife cannot be hired by the same department or even by the university as a whole. If the institution is in a small town, then very often the intelligent and educated woman is forced to take a job that does not sufficiently draw on her talents.

"Also, the whole atmosphere of society makes it very difficult for women," Mrs. Goldhaber added, "because from an early age they are discouraged from trying to enter a profession. This is true especially for physics, because this is not supposed to be the thing for girls. If they do enter this field, they usually feel they are sort of freaks and are never really taken seriously."

Vicious Cycle

If they marry and have children before receiving their complete education, women are made to believe that they are supposed to take care of the children and very often drop out of their field. This, in turn, makes the men who would be their thesis advisors hesitate to accept them as graduate students. "It is a vicious cycle," she stated. "This committee was created to think of ways to make the existing situation change faster."

Do men realize this problem? "No, I feel that many men have no idea. For instance, one of the Princeton professors whom I told recently that I had been asked to join this committee said, 'But aren't there just four women in physics, and certainly none of you have any difficulties.' How far this is from the truth!" she exclaimed.

Nuclear Physics

With traces of her native German accent, Mrs. Goldhaber speaks with fervor of her main professional interest. Her physics work has included ferromagnetism, spontaneous fission, and neutron physics. Together with her husband, the present Director of the Lab, she proved in 1948 the identity of beta particles with atomic electrons. Joining the BNL staff in 1950, her current research focuses on nuclear level schemes. She occasionally collaborates with her son Alfred, a physicist, too, at the University of Stony Brook.

Gap

Besides her research, Mrs. Goldhaber has devoted her energies to bridging the gap that has developed between science and the rest of society. This gap is due in large part, she feels, to a lack of communication and accounts for the aversion towards science by many of today's youth.

She was instrumental in starting the Brookhaven Lecture Series and the special science courses for high school teachers of Suffolk County. In addition, she would like to see newspapers carry series of articles not just on the latest discovery in science but rather on a broad field, such as describing what X-rays are and how they are used in the various fields.

"Many people have the completely mistaken feeling that science is so difficult. That is not really true," she explained. "What is difficult is to understand the current research."

Attracted to physics for its inherent precise mathematical nature, Mrs. Goldhaber fails to understand why newspapers usually describe very large or very small numbers in terms of millions of trillions of such and such a thing. "Nobody can really visualize this," she asserts. "It is a very clumsy method. Every high school child knows how to handle powers of 10, this method being a much briefer and more precise way to express things."

The gap between scientists and other citizens is evidenced by funding cuts, and currently Mrs. Goldhaber is involved in raising financial support to keep abreast in compiling the abundant data from nuclear experiments. She was appointed by the National Academy of Science to head a panel which has made recommendations to this end in a forthcoming report. Many physicists are worried that these data may get lost or else be so scattered in the literature that one cannot easily find them.

Her mental activity is not merely confined to physics, for Mrs. Goldhaber is intent on obtaining as deep a knowledge of the development of humanity as possible, including a knowledge of history, anthropology, and all the expressions of mankind like art and literature.

Mythology

"I have always been particularly interested in mythology, a thing which for a long time was not sufficiently appreciated. I feel that myths of the various civilizations express the deepest desires and fears of human beings."

Any spare time that she might have is filled by keeping in shape with tennis and mountain climbing, an expression of her feeling that a healthier life is needed. "I have heard that in Chinese factories instead of coffee breaks, they have shadow-boxing. Perhaps we could find some kind of organized activity here at the Lab, like the Canadian Air Force exercises or yoga." At her home in Bayport, Mrs. Goldhaber enjoys cooking such dishes as eggplant Creole.

Tanned and energetic, she does not plan to retire, for, as she says, there is too much to do. Congenial, yet with a strong inner driving force that demands respect, Mrs. Goldhaber makes a lie of the statement that women are the weaker sex.

—Johnson

Safety Glasses

The optician who dispenses safety glasses will not be on site on Monday mornings for the duration of the strike. He will, however, continue to be available on Wednesday afternoons.

Tennis News

The finals in the Ladies' Singles of the '71 BERA Tennis Tournament is scheduled for Tuesday, August 31. Game time is 5:15 p.m. Rain date, same time, Wednesday, September 1. Mary Ann Stevens, a former BERA Ladies' Singles Champion, will meet the winner of the semifinal match between Helen Connell and Mary Jane Stangby.

Reported below are the results of play up to noon, Tuesday August 24.

Men's Singles

First Round: Auskern-Foley, score unavailable.

Still to be played, or defaulted, are one more first round match, two second round matches, and 2 semi-final matches before the finals. Please, let's get these finished before the first hurricane.

Ladies' Singles

Second Round: Connell-Auskern, 6-3, 6-1; Stangby-Seltzer, 6-1, 6-1.

Third Round: Stevens-Kevey, 7-5, 6-3. As noted above, the finals have been scheduled for next week.

Mixed Doubles

Semi-Final Round: Kevey, Kevey-Stangby, Palmedo, 6-2, 6-4.

Although the finalists in the second half of the draw have not been determined, the **Championship Match in the Mixed Doubles** has been scheduled for **Thursday, September 2** at 5:15 p.m.

Service Awards — August

Twenty Years

Celentano, Alfred Medical
Plonski, John E. Mech. Eng'g

Ten Years

Bernholz, Charles H. Central Shops
Davis, Chester R. Applied Science
Goland, Allen N. Physics
Hlavac, Peter J. Applied Science
Johnstone, David S. Plant E&P
Malinowski, Thomas S. Instr. Health
Miller, David E. Accelerator
Morris, David Jr. Applied Science
Protter, Seymour R. Reactor
Rensberg, Louis P., Jr. Chemistry

Pool Open

Through September 3

The Swimming Pool will remain open through next Friday as per the following schedule:

Weekdays

12:00-1:30 Employees Only
1:30-9:30 Employees/Families/
Guests

The Pool will be closed from September 4 through October 16. It will reopen for its Fall schedule on October 17.

Dispersion Studies

(Continued)

Generally when materials are continuously ejected into the atmosphere at an equal rate and have travelled for some time over a long distance, the turbulence in the air has pretty well mixed them, resulting in concentrations that do not vary a great deal with space or time.

Time and Space

This is not necessarily true for pollen, however. Although airborne pollen is subject to the same principles that govern the dispersion of other small particles, its emission is confined to a specific portion of the year and a limited range of weather conditions during a specific time of day.

The question is, then: does the pollen get well-mixed or are there discrete clouds of pollen. Experiments will be set up, one at Saratoga Springs for an urban setting and one here at the Lab. A line of eight samplers will be established with two very close together and the spacing gradually increased for the others.

"If the pollen is not well mixed," Raynor explained, "we will find better agreement between those samples close together than those farther apart. This will indicate that one spot sample is not necessarily a good representation of an entire region."

For the time consideration, 12 roto-slide units will sample for brief periods sequentially. A thirteenth slide unit will sample continuously. This experiment will enable them to look at the short-term peaks as compared to longer term average concentrations.

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Arrivals & Departures

Arrivals

Cidaliza M. Rodriguez P.E.P.

Departures

Robert A. Bonazzi Biology
Carl S. Dombrowski Medical
Robert G. Graves Physics
Martha K. McCartin Biology
Tang-Fong Wong Physics

Reports Available

The following reports are now available to the Laboratory staff and to affiliates of the AEC, AUI, and BNL. Others may purchase them from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, Virginia 22151. Staff members should call Ext. 2256.

BNL 50283 \$3.00
Brookhaven Lecture Series No. 90. The Nucleus as a Spinning Top. Victor W. Cohen

BNL 50287 \$3.00
Remembering as Humans Do: The Impact of Associative Computer Memories. Arnold M. Peskin

BNL 50293 \$3.00
Experimental Work in the Brookhaven Chemonuclear In-Pile Research Loop. M. Beller, W. Tucker, and M. Steinberg

Selected Reading

Technol. Rev. 73, July/August 1971
High energy at low cost. R.C. Cowen. 6-7
Shaking up the system. V. Cohn. 8-9
Technology and the democratic process. E.Q. Daddario. 18-23

Science 173, August 13, 1971
Intellectual freedom and the university. D.R. Goddard and L.C. Koons. 607-10
Chinese science: What the China watchers watch. D. Shapley. 615-17

Science 173, August 6, 1971
Relevance of particle accelerators to national goals. L. Rosen. 490-7

Nature 232, August 13, 1971
Research environments and productivity. S.P. Gupta and K.D. Sharma. 450-2

Search 2, April 1971
The environmental crisis: A survey. R.M. May. 122-31

Cafeteria Menu

Week Ending September 2, 1971

Friday, August 27
New England Clam Chowder
Fried Scallops w/Tartar Sauce & French Fries95
Broiled Perch w/Lemon Butter & 1 Veg.95
Roast Beef & 1 Veg.85

Monday, August 30
Puree of Mongol Soup
Spanish Omelet & 1 Veg.85
Baked Macaroni Au Gratin w/Bacon Strips & 1 Veg.85
Boiled Beef w/Beetrelish & 1 Veg.85

Tuesday, August 31
Vegetable Soup
Manicotti w/Meat Sauce & Tossed Salad85
French Fried Chicken Salad Sandwich & Cole Slaw85
Pork Chow Mein on Rice w/Crisp Noodles85

Wednesday, September 1
Turkey Noodle Soup
Corned Beef & Cabbage w/Boiled Potato95
Spaghetti w/Italian Sausage & Peppers90
Grilled Chopped Beefsteak & 1 Veg.80

Thursday, September 2
Onion Soup w/CROUTONS
Veal Parmigiana & 1 Veg.90
Braised Chicken Leg & 1 Veg.85
Baked Stuffed Green Peppers & 1 Veg.85

26 Enrolled In Youth On Campus Training Program

Every summer since 1965, young people of high school and college age have participated in the Laboratory's annual Youth on Campus Program.

This summer, twenty-six students began an eight week program aimed at providing basic skills training, vocational guidance and exposure to the multi-faceted work of Brookhaven. The Youth on Campus Program began on July 7 under the general direction of Personnel Division staff members Janet Whitehead, Ric Villacara, and LeGrand Newman.

As part of the Program, Jean Petterson of Personnel, conducted typing classes for students twice a week. The classes included speed and accuracy drills, as well as training in telephone procedures, letter composition, and general office know-how.

In many cases, students were recruited with the help of local high school guidance counselors and Laboratory employees who knew of youngsters who might benefit from the Program. A number of the participants transferred directly from the Laboratory's High School Cooperative Education Program, which offers similar vocational experiences on a part-time basis during the fall and winter months.

Prior to the beginning of the Program, BNL departments were asked to review areas where students might be assigned work under the direction of a supervisor who would be responsible for providing on-the-job training, basic rules of work, and as much personal attention as his schedule would permit.

While departmental requests for students were numerous, and job assignments were generally very imaginative, budgetary considerations limited the Program to twenty-six positions.

Supervisory evaluations of student progress generally indicate that the Program continues to be an effective way of helping the vocational growth of its participants.



Jean Petterson of Personnel conducts a speed and accuracy drill as part of her Offices Practices Course. The typewriters used in the course are on loan from the Middle Island School District.



Naomi Hollis shelves books in the library of Applied Math.



George Washington learns the use of a process camera in Photography.



Frederick Gray, Chemistry, sorts supplies in the Chemistry stock room.



Anne Flood, Physics, helps Rose Rutuelo sharpen up on telephone procedures.



George Speidell, Accelerator, instructs Rippie Bowman in the art of wiring circuits.

Photos by Humphrey

Diamond News

by Dean Easler

Laboratory League action last week found the Converts forced to forfeit their game to the Bio-Meds. Two weeks ago the Bio-Meds edged the Survivors 13-12 as Dennis Burholt was 3 for 4 including a home run. The Bio-Meds, who tied with the Phoubars for first half honors with identical 5-1 records, may well do the same in the second half as the record for the second half list below indicates.

Standings (second half)

	Won	Lost
Bio-Meds	5	1
Phoubars	4	1
Survivors	3	2
Converts	1	4
Charlie Browns	0	5

National League standings were not reported but the Pop-Ups seem to be conclusive winners of the second half as they defeated the Bubble Boys 14-6 last week to remain undefeated in the second round.

Home runs were slammed out by A. Dick, S. Eiseman and D. Benos for the Pop-Ups. It appears that the Pop-Ups will have the best overall record for the season in the National League this year as they tied for first place in the first half and have only lost one game all season.

Brookhaven League results last week found the Dirty Sox forfeiting to AMD and Metallurgy with only eight men defeating the Old Timers to tighten things just a little in the League. The Old Timers defense failed them and the Metallurgy boys hit well to win the game 11-9 even though they were short handed - it seems to happen every time! The Old Timers (winners of the first half) are in front for the second round.

Standings: (second half)

	Won	Lost
Old Timers	4	1
Metallurgy	3	2
Blue Jays	2	2
AMD	3	3
Dirty Sox	0	5

Soccer

John McCafferty
BNL 5 Smithtown Bulls 2

The Smithtown Bulls (a team that gave an excellent account of itself in the Brookhaven Town League this year) were guests of the Laboratory Soccer team on Saturday August 21st. The game started fast with Smithtown testing the Lab's defense for the first ten minutes. BNL settled down when Meyers picked up a loose ball at midfield, passed it to Preece who wasted no time in beating the defending back and burying one of his pile driving shots in the back of the Smithtown net. The play for the remainder of the first half was even with both teams narrowly missing shots.

The second half found BNL's forwards on target bolstered by Bill Gelletly who recently returned from England and who played so well for BNL last year. Three fast goals were scored by Meyers, Gelletly and Rubinstein. With the score at 4-0 Smithtown never gave up and their efforts paid off when Regan dented the BNL net. Stung by this, the Lab struck back when Preece scored his second goal of the day. However, the Bulls never gave up and 10 minutes before the final whistle D. McCafferty, playing at inside left for Smithtown, lofted a ball over the BNL goalkeeper's head for the Bull's second goal.

A very clean, fast game with the play fairly even. The accuracy of the BNL forwards made the difference.

Best for BNL - J. Preece, E. Levine, P. Meyers.

Best for Smithtown - J. Regar, B. Mazura, D. McCafferty.

Mixed Softball

by Georgia Irving

As of August 17th with only 4 more games to go before the playoffs, it looks as if first place is up for grabs by either Chemistry or the Saints. The Gotcha's are holding on to 3rd place and the Mixed-Ups are in last.

	W	L
Chemistry	4	2
Saints	4	2
Gotcha's	3	3
Mixed-Ups	1	5

Although the Mixed Ups are in last place, they have shown magnificent ability in many instances. For example, their catcher, Hildi Bergoffen (a newcomer to our game) caught a pop foul to make the 3rd out in the 3rd inning and keep Chemistry scoreless. Lorraine Osterer, their pitcher, intentionally walked a good hitter with bases loaded to make the 3rd out on the next batter. Very fancy footwork!!

The August 17th games were interesting. The Gotcha's beat Chemistry 7-5. Chemistry has since protested the game due to their feeling that there was still time to start another inning before the 6:25 deadline.

The Mixed-Ups forfeited the second game to the Saints due to a roster of only 5 people. After substitutions were made the game was played for fun and the Saints won 15-1.

Recreation Facilities Schedules

Swimming Pool

(Open Monday through Friday)

12:00 noon - 1:30 p.m. Employees Only
1:30 p.m. - 1:30 p.m. Employee/Family/Visitors Gymnasium

(Open Monday through Friday)

Mondays
5:00 p.m. - 8:30 p.m. Basketball
8:30 p.m. - 9:30 p.m. General Activities

Tuesdays
5:00 p.m. - 7:00 p.m. Judo Club
5:00 p.m. - 9:30 p.m. General Activities

Wednesdays
5:00 p.m. - 9:30 p.m. General Activities

Thursdays
5:00 p.m. - 7:00 p.m. Judo Club
5:00 p.m. - 9:30 p.m. General Activities

Fridays
5:00 p.m. - 9:30 p.m. General Activities

Recreation Building

(Tuesdays through Thursdays)

5:00 p.m. - 10:00 p.m.

Tuesdays 8:00 p.m. - 10:00 p.m.

During July & August Summer Student Choir

Wednesdays 8:00 p.m. - 10:00 p.m.

During July & August Folk Dancing



Frank German and Dennis Gaynor work with tradescantia in the Biology Department's irradiation facility.

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.

SCIENCE EDITOR - Requires Ph.D., Physics. Salary \$11,000 plus excellent benefits. American Institute of Physics, BNL.

CLINICAL CHEMISTRY SUPERVISOR - Bachelor's degree or equivalent plus training and supervisory experience in clinical pathology laboratory work, especially clinical chemistry. Medical Department, BNL.

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

Autos & Auto Supplies

71 PONTIAC VENTURA II - 6 cyl, auto trans. \$2750. Tom, Ext. 7508.

WHEELS - 13" Falcon, Comet, Corvair, \$2 ea; gen, 12v GM type Chevy, Pont, \$6 ea. Bob, Ext. 2450, 289-0357.

65 PLYMOUTH - Good cond, new tires. \$400 firm. 924-3291.

2-7.35x14 POLYESTER W/W TIRES - 1-6.00x13 w/w tire, \$4 ea. Earl, 286-3829.

65 PONTIAC TEMPEST - Std trans, new batt, brakes, mufflers. \$550. R.P. Comes, Ext. 7362/7813.

CAR RADIO - AM. \$8. Von Lindern, Ext. 2781.

69 CAMARO Z28 - 302 cu in, 290 hp, 4 spd Hurst, 410 posi rear, mags, tach, blue, 33,000 mi. \$1800. A. Nauman, Ext. 338.

67 FORD LTD - Full pwr, immaculate, 4 dr hdt, vinyl top, auto trans, V8. \$1180. Frank, 744-1518.

70 DODGE POWER WAGON - 4 w/d, 318, 4 spd, 7' hyd plow, stereo tape deck. \$3450. Phil, 475-9651.

63 ECONOLINE TRUCK - 6 cyl, motor excel, good brakes, good tires, D. Clareus, Ext. 2749.

63 CHEVY II - 4 dr sedan, 6 cyl, auto, good running cond, body good, use for parts or souping up. \$50. Richie, Ext. 722E.

TUNE UP YOUR CAR ELECTRONICALLY - For better gas mileage. Richie, Ext. 7228, 665-7651 after 6.

64 OLDS VISTA CRUISER - 38,000 mi on eng & trans, good cond. \$750. Bob, 289-8236 after 6.

62 RAMBLER CLASSIC - 4 dr, 6 cyl, manual trans, new tires, runs well, needs paint. Ext. 7353, 587-9372.

69 BUICK ELECTRA CUSTOM - 4 dr hdt, 6-way elec seat, windows, air, 31,000 mi, new cond. \$3300. 475-5978 after 6.

65 BUICK LE SABRE - 4 dr hdt, V8, ps, excel low mi car. Asking \$695. 286-9260 eves.

65 MUSTANG PARTS - Doors, hood, radio, heater, seat, windshield, rims, etc. Ext. 2814.

2-4.00x16 TIRES - Ext. 2931.

65 PONTIAC GTO - Ps/pb, auto, clean, new mufflers. Asking \$800. Maitern, Ext. 2309, 744-8981.

67 SAAB SEDAN - 3 cyl, clean & solid, 1 owner. \$650. LT9-2884.

56 MERCEDES BENZ 220S - Sunroof, west coast car, magnificent machine. \$975. LT9-2884.

SHOCK ABSORBERS - Sears heavy duty, to fit Ford station wagon 1965-70. Richie, Ext. 7228, 667-9218 after 6.

67 FORD FALCON - 6 cyl, 2 dr, auto trans, excel cond. 475-2863.

69 GM 3 SPD SYNCHRO TRANS - W/Hurst shifter. \$50. Ann, Ext. 2745.

4 TIRES - F60-15 ovals, used 1 mo. \$30 ea. 475-0002.

65 MUSTANG CONV - 6 cyl, 3 spd, good cond. \$600. 981-1826.

66 CORVAIR - Good cond, 2 dr, 2 new Dunlop 13"s, new clutch. \$250. 475-7227 after 5.

70 CHIBI MINI-CYCLE - 69 cc, good cond, off road use only. \$130. Mac, 281-9559.

65 MUSTANG FASTBACK - 4 bbl, 289 hi perf, wide ovals, new rear susp, new front tires, excel. \$1100. 589-4284.

63 CHEVROLET STATION WAGON - Snows. \$200. Ext. 7802.

63 RAMBLER 770 CLASSIC - Auto, runs. \$150. Mac, 281-9559.

66 BUICK LE SABRE - Air cond, auto trans, r/h, ps/pb, radial tires. \$900. 751-1126.

69 DART GT - 2 dr hdt, bckts, auto trans & console. \$1800. 751-1126.

60 VW GHIA - W/rebuilt '62-'63 motor, eng very good, some other work needed. \$250. Marty, Ext. 7415.

69 FIAT SPORT COUPE - 850, 4 spd, 33 mpg, am/fm, blue, 40,000 mi, sm dents. Asking \$800. G. London, Ext. 7683.

51 MGTD - Running daily, new tires, brakes, batt, renewed top & seats, last chance - going to Va. \$1600. Marty, Ext. 366.

69 MUSTANG - V8, 4 spd floor shift, disc brakes, 17,000 mi. Ext. 2410.

Boats & Marine Supplies

26' OWENS CABIN CRUISER - Excel cond, must sell. Bob, 289-1568 after 6.

7 HP SEARS OUTBOARD - 1970 model, runs well. \$90. J. Coggins, Ext. 386.

BOSTON WHALER 1969 - 7 1/2 & 65 hp Mercury, tach, depth finder, trailer, extras, Sakonnet, excel cond. Barbara, 286-8633.

19' LIGHTNING #6616 - \$995. K.C. Entler, Ext. 7537.

AQUA CAT - Racing sail, good cond, w/trailer. \$600. R. Felton, Ext. 7784.

Miscellaneous

SIZE 9 EVENING DRESS - Never worn, blk chiffon top w/intricate white lace skirt, \$10; blonde fall, 100% human hair, styled in Grecian curls. Marlene, Ext. 7711.

GARAGE SALE - Sat 8/28, moving after 15 yrs, extras must go! Clothing excel cond, toys, household items, etc; 335 Beaverdam Rd, Brkhnv. 286-0339.

INFANT SEAT - B&w TV; 2 faucets for kitchen sink; bar solder 40/60 & 60/40. Ext. 2931.

MATTRESS - Firm foam dble, excel cond, 6 mos old. \$40. Dave, Ext. 7805, 744-0463.

TENT TRAILER - 1968 Travel Mate hdt, sleeps 8, sink, stove, icebox, new spare & wheel, heater, leveling jacks plus extras. \$675. Paul, Ext. 354.

SHOTGUN - Marlin bolt action 12 ga, barrell cut to 22", 3 shot, good cond. \$40. Paul, Ext. 354.

VARMINT RIFLE - Sako L461, .223 cal, 3-9x Bushnell scope, Sako mounts, like new cond. \$200. Paul, Ext. 354.

TV - GE 24" console, excel cond. \$50 firm. Ext. 2503.

CUSTOM TAILORING & ALTERATIONS - Men's & women's clothing. 286-3454 after 7.

BRAND NEW LADY'S WATCH - Bucherer, waterproof, antimagnetic, 1 yr guarantee, for price we paid in Switzerland. \$24.50. Arbeit, Ext. 2448, 567-1613.

HI-RISER BEDS - Like new. \$50. 281-8557.

TAPE DECK - Ampex 750 w/mic, stereo, echo chamber, good cond. \$75. David, Ext. 7805, 744-0463.

GUITAR - Steel string, w/case. \$45. A.C. Nunes, Ext. 367.

7 HP RIDING TRACTOR MOWER - 32" cut, 2 yrs old, very good cond. \$250. 732-6853.

SOFA - \$10. 744-8755.

ITALIAN CRIB & MATTRESS - \$35; child's bench, \$6; youth mattress, \$45; lots of toys, free. David, Ext. 7805, 744-0463.

DINETTE SET - Table 47"x30" w/leaf, blonde oak formica, 4 chairs, wrought iron, very sturdy. \$15. Fred, Ext. 424.

ELEC GUITAR - Hollow body, 2 pickups, w/case & electronic fuzz box, good cond. \$50. 744-8449.

MICROSCOPE - Kyowa KHS2, 4 objectives, 3 eyepieces, mech. stage, Koolite lamp, case, slides, extras. \$200. Saxon, Ext. 2366.

TOM'S TV REPAIR - Expert TV service in the evening at minimum costs. 878-0567 after 5:30.

DRUM SET - Compl set, 3 tom-toms, bass, snare, hi-hat, cym. Orig \$200, sacrifice \$125. 475-7227 after 5.

POODLE PUPS - Fran, 281-5062.

KITCHEN SET - Good cond, \$20; Royal portable typewriter, good cond, \$15. Bob, Ext. 2450, 289-0357.

POLAROID LAND CAMERA - Automatic 103 w/flash. Orig price \$130, sacrifice \$35. EM3-6409.

AUTOMATIC STEAM-DRY IRON - \$4; stroller, \$6. Von Lindern, Ext. 2781.

AKC GREAT DANE PUPS - Brindles & fawns, 4 wks old, show stock. Males \$125, females \$100. 281-8344 after 3.

67 COX TRAILER - Sleeps 6, \$650; tent heater, 2400 BTU, \$8; 16'x9' tent, \$50; 8 mm movie camera, \$5. Ext. 2814.

TYPEWRITER - Excel cond, German made. \$110 new, sell \$40. David, Ext. 7805, 744-0463.

MOVING SALE - GE washer, Sears lawn mower, crib, high chair, twin bed, rm air cond, typewriters, fireplace screen, andiron; Harvard Rd, Shoreham. 744-8950.

BABY CARRIAGE - W/mattress, excel cond. \$7. Ext. 511.

KODAK "35" CAMERA - 35 mm, old, but works fine & takes excel pictures. \$10. M. Greene, Ext. 7779.

FIREWOOD - Split oak. \$35. Earl, 286-3829.

WASHER & DRYER - GE, 6 mos old. Cost \$350 new, now \$280. David, Ext. 7805, 744-0463.

GE DBLE OVEN RANGE - 220 v, 4 elements, oven timers. \$30. 286-0881.

QUARTERS - 13, various dates 1877-1964, poor to uncirculated cond. Lot \$20. 924-4063, 281-3299.

INDIAN HEAD PENNIES (63) - 1861-1909, not inclusive, good to uncirculated, lot only. Asking \$70. 924-4063, 281-3299.

NICKELS - Liberty head, lot of 6, various dates 1883-1912, good to extra fine. Lot \$8. 924-4063, 281-3299.

RUGS - 2 pink nylon, 6x9 & 9x12, \$50; orange mushroom shaped lamp, \$9; old clock, \$9; baby stroller, \$3. David, Ext. 7805, 744-0463.

PORTABLE DOG RUN - 24'x6'x6' high chain link w/gate, like new. 271-0223.

WOODEN PLAYPEN - Like new, \$12; stereo record player, \$20; toaster, used 6 mos, \$12. M. Comes, Ext. 7813.

BANJO - 5-string, old & mellow, \$45; books - philosophy, literature & trash, many to choose from. David, Ext. 7805, 744-0463.

Carpools

DRIVERS WANTED - Existing carpool, vicinity exit 32 So. State Pkwy and points west. Plotkin, Ext. 7103.

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

JOIN OR FORM CARPOOL - Stony Brook/Strathmore vicinity. M. Strongson, Ext. 2727.

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

SHOREHAM - 4 bedrm colonial, 2 story house, liv rm, fam rm & din rm, 2 1/2 baths, 2-car garage, part air cond. \$35,500. 744-6657.

MEDFORD - Custom colonial, lg liv rm w/fireplace, formal din rm, 32' country kitchen, 4 bedrms, paneled den, 1 1/2 baths, rec rm, att 2-car garage, 1 1/4 treed acres w/lg playhouse. 289-1614.

For Rent

ROCKY PT - 2 bedrms, din, kitchen, liv rm, beach nearby, avail 9/15/71. \$125/mo. Ext. 7733, 744-1548.

BELLPORT - Furn house, 5 bedrms, 2 baths, din rm, den, laundry, 2 blocks to bay or stores, avail 9/7 for 9 mos. 286-0932 after 6.

BELLPORT - Furn, 6 bedrms, 4 baths, lg lot, fireplace, near stores, schools, tennis, golf, bay, 1 yr lease, Sept. Ext. 2910, 286-8807.

Wanted

ANY KIND OF HANDYMAN JOBS - House-cleaning, yard, attic, cellar, regularly or one-shot, light hauling, reasonable. Jay & Kay, Ext. 7439.

FREEZER - Upright, prefer one not working at minimum cost. G. Hrabak, Ext. 2406.

CABIN TRUNK - In good cond. 286-0161.

10-25 HP ENG - Needed for sm runabout, good cond, reasonable. 286-8517 after 4:30.

TREE REMOVAL & CHAIN SAW WORK - Also light hauling. Ken, 924-4539 eves.

TO RENT - Moderately priced 2 or 3 bedrm house until 7/31/72, couple w/1 yr old boy, Westhampton Beach area preferred but not essential. 325-0626.

RIDE TO FLORIDA OR THEREABOUTS - Around 8/30, very willing to share expenses & driving. K. Hayes, Ext. 2876.

165S15 or 6.85x15 SNOW TIRES - M. Strongson, Ext. 2727.

SOMEONE KIND - To adopt a homely (but handsome to those who care) male standard part-poodle, needs room to run & lots of love, excel watchdog, moved & must give him up. 924-8489 eves.

SKIS - 5'6" to 5'9", Head, Hart, Fischer or good wooden, w/wo bindings, reasonable. 744-3225 after 6:30.

GOOD HOME W/SPACE - Great Dane female, 1 yr old, brindle, very gentle. 281-8557.

2-50 LB DUMBELLS - 924-3783 after 1.

CEMENT MIXER - Ext. 423.

BABYSITTER - For 1 yr old & 4 yr old, full-time, days, Shoreham. 744-5079.

SOUTH SHORE BABYSITTING POOL - Welcomes new members, E. Patchogue to Shirley. Janice, 286-8521.

MINI-BIKE - For young boy, to be used in the hills of Penna, the cheaper the better. M. McAllister, 732-9168.

HOME - For half-Labrador female dog, spayed, 8 mos old, med sized, instinctive retriever, great w/kids, needs room. Dave, Ext. 7805, 744-0463.

HOMES - For 3 fat, playful kittens, 10 wks old, 2 male, 1 female. Richard, Ext. 7733, 744-1548.

LADIES' BIKE - Must be used & in good cond. Marlene, Ext. 7711.

IRONING - Will do in my home. Joan, 281-8216.

CAMERA - 35 mm, single lens reflex, good cond, reasonable. Ext. 2959, 286-0295.

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.

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

- Wanted
 Carpools
 Lost & Found

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

Ads concerning property for sale or rent cannot be accepted on this form. Special Real Estate Ad forms are available at the Office of the Brookhaven Bulletin, Room 112, 40 Brookhaven Avenue.

(Name & Phone No. To Call)

Employee's Signature Life No. Ext.

Send to: Brookhaven Bulletin, 40 Brookhaven Avenue