

No Man's Land



A threatening sign warns curious boat enthusiasts not to land on Great Gull Island. Recently, BNL's Meteorology Group conducted experiments out there with the permission of the American Museum of

Natural History which owns the island. Art Tingle (left) and Cy Fink take meteorological measurements. (Story on Page 2).

Photos by Humphrey

All In The Family

It is becoming quite common to find a married couple working in the same field, often as a team. Jane and Dick Setlow are not a "team" per se but they are both biophysicists and their research is related.

The Setlows came to Brookhaven's Biology Department in mid-September after spending 14 years at Oak Ridge National Laboratory in Tennessee. They came to BNL because they liked the working atmosphere, the people, and thought it would be a nice place to do research. Another motivating factor might have been Jane's love affair with the Long Island Sound.

They met while undergraduates at Swarthmore College. Soon after their graduation they were married and now, 32 years later, they have three sons and a daughter ranging in age from 25 to 30. A third generation of Setlows includes two grandchildren.

Jane's undergraduate work was in psychology and physical science. Once her youngest child was six she went to Yale University for her PhD in biophysics.

Jane really considers herself a molecular biologist but says molecular biology and biophysics are the same thing depending how one defines them. They both attack problems from a molecular level. Her research has focused on the recombination of DNA. By working with viral and bacterial DNA she is interested in seeing how DNA molecules interact with one another when they recombine. She is particularly interested in how they pair with one another.

In her research she has collaborated extensively with a biochemist in Pakistan and a molecular biologist in Bombay, India. They have spent time in each other's laboratories.

Dick Setlow's research also centers around the DNA molecule. He is interested



Jane and Dick Setlow.

in how these molecules, when damaged by chemicals or radiation, repair themselves. He believes that damage to DNA is involved in cancer. Dick, who is a member of the National Academy of Sciences, is one of the pioneers in determining the effects of radiation on DNA.

Although many researchers are investigating DNA repair, Dick's approach is quite unique. He is experimenting with a species of fish that does not have any male members. Eggs are fertilized by males of a related species but no genetic material from these males enters the eggs. Therefore, only females are born and they are all carbon copies of their mother.

When thyroid cells from one fish are exposed to ultraviolet radiation and injected into other fish, thyroid tumors develop in 80 to 90 percent of them. Because all the offspring are identical twins, there is no problem with immunological rejection of the transplanted cells. Also, there is no biological variability.

Dick Setlow has been interested in the effects of ultraviolet radiation for a long time. It is known that over-exposure to sunlight can result in skin cancer but the component of sunlight that is to blame is unknown. Dick strongly believes that it is ultraviolet radiation.

In his research he is collaborating with Ronald Hart of Ohio State University. They transported between 50 and 100 fish

(Continued on page 2)

More On Mail Use

Last week's *Brookhaven Bulletin* carried a notice submitted by the Upton Post Office about the new procedure for handling un-stamped mail. Because there was some confusion about the intent of the new regulations, the following clarifying information is now published.

After November 17, all letters that have no postage or return address, and lack a mailing permit, will be sent to the Dead Letter Office instead of being sent to the addressee. Before the new procedure, the letter would have been sent to the final destination with a postage due stamp.

As the Dead Letter Office is the only one authorized to open mail, there will be some delay until the sender of a letter with no return address can be identified.

In the past, many people have tried to evade paying postage when mailing utility payments by not putting a stamp on letters to the Phone Company or the Lighting Company. The past procedure would have had the letter delivered with the utility paying the postage due. The new procedure will cause the payment to come back to the sender with a risk of cutting off service because of the delay.

Letters that have partial postage, such as an overweight letter will be handled as before, with the postage due being billed to the recipient. There will be no change on business reply envelopes or cards with a mail permit number.

It's The Law

A study of high accident locations in Suffolk County showed 29% of the collisions were of the rear-end type, a major cause of which is following too closely.

Section 1129 of the Vehicle and Traffic Law prohibits "tailgating" and upon conviction, penalties of a \$50.00 fine or a 15-day jail term or both can be imposed.

Official & Special Events

Monday, November 11

Queens College Physics Students Tour

Tuesday, November 12

Concert - 8:30 p.m., Berkner Hall
SUNY-Stony Brook Physics Society and Don Bosco College Tour

Wednesday, November 13

Navy Meeting - 7:30 p.m., Brookhaven Center

Thursday, November 14

Suffolk County Health Department Sanitarians

Monday, November 18

Delegation from The Peoples Republic of China in Plant Photosynthesis

Tuesday, November 19

Low Level Radiation Effects Meeting

Thursday, November 21

L.I. Bone Metabolism Study Group
Kings College Chemistry Students Tour

Remember

November 15 is the deadline for all 1975 AUI Scholarship applications.

Andrew Hull Becomes APHA Council Member

The American Public Health Association (APHA) has elected Andrew Hull, HP&S, a member of the Section Council of their Radiological Health Section.

The six-member Council is the executive body of the Radiological Health Section, one of 21 sections within the Association. APHA can rely on this section for any advice concerning radiological effects on public health.

Hull was an APHA Fellow before his appointment which was made official at the APHA Annual Meeting in New Orleans several weeks ago. At BNL he is in charge of environmental monitoring for the Health Physics and Safety Division.

Now You Can Return The Non-Returnable

The DAS Concrete Polymer Group just cannot empty enough bottles to quench their thirst for glass. They are now opening their doors for donations of glass bottles from the BNL community.

The glass is crushed, screened and mixed with a liquid monomer. The resulting mixture is poured into a mold and allowed to set or polymerize. The end product is a pipe that is un-leachable, acid resistant and more than twice as strong as ordinary concrete.

Approximately 100 pounds of glass are needed to make a four-foot pipe. This means someone must consume around 154 bottles of beer or, for the teetotaler, close to 96 bottles of soda (28 oz. size).

Now is your chance to join the fight against pollution by recycling all those no-deposit no-return bottles. Bring your used bottles to building 526 at 12 North Sixth Street. For any further information, call Jack Fontana, Ext. 3040.

Autumn and Safety

With the advent of Fall and the return of children to school, motorists should be aware that the period of highest pedestrian accident occurrence is upon us.

Earlier hours of darkness, fallen leaves, and concentration of children walking to and from school or school bus stops, all combine to contribute to the highest pedestrian accident rate at this time of the year.

Motorists are urged to use extreme caution when passing stopped or parked vehicles, particularly in areas where children are walking or playing.

Craft Apprentice Program Renewed

Laboratory Director George Vineyard has announced that applications will again be accepted for the Laboratory's Craft Apprenticeship Training Program.

Since 1969, when the program started, six employees have graduated, and three are currently receiving specialized training in the machinist and electrician trades.

Up to six additional employees will be selected for training in the machinist, carpenter, electrician, or refrigeration and air-conditioning trades. During the four-year training period, each apprentice will be given on-the-job training and will be required to complete a course of formal study related to the apprenticed trade.

Applications are being sought throughout the Laboratory from all employees regardless of race, sex, or religion. Successful candidates will not suffer any loss of pay because of the program, and in many cases will receive enhanced pay.

Full details of the program are available through the counseling services of the Personnel Office. Interested employees may call Ric Villacara, George Sabine or Virginia Wilson for further information. Applications are available at the Personnel Office at 58 Brookhaven Avenue.

1975 BNL Vehicle Stickers

A supply of BNL vehicle stickers for 1975 has been distributed to all departments throughout the Laboratory. They are valid from now through December 1975.

Employees and official guests will be issued stickers by their department's designated representative upon request. The Personnel Office will continue to issue stickers to new employees. They may also be obtained by any employee at Police Headquarters.

A person who regularly drives a privately-owned vehicle on site is requested to register it. Vehicle registration cards are also avail-

Please note: All previously issued stickers will be invalid as of January 1, 1975.

able from your department representative and are to be completed when you pick up your sticker.

The sticker, which is to be applied from the inside, may be affixed to any of the left side windows, preferably the vent window. Please do not apply to the windshield or rear windows as that practice is illegal.

BNL vehicle stickers are intended to identify vehicles of our employees and associates and to permit speedy entrance and exit from the Laboratory site. Please avoid the possible inconvenience of having to show your I.D. card at the gate.

Great Gull Island Waits For No Man

Seven miles off the coast from Orient Point is a 17-acre island which is the home of one of the largest tern colonies in the western hemisphere.

Great Gull Island has not been inhabited since 1949 when the American Museum of Natural History took title to it from the Army. Since then research teams from the Museum have spent time out there studying the island's increasing tern population.

Up until this year the researchers had been the only ones to share the island with the terns. But, towards the end of September, another team of researchers came out to the island for a totally different reason.

Members of BNL's Meteorology Group came to study the diffusion patterns in the atmosphere above the island. The island served to simulate an off-shore nuclear power plant and smoke, produced by smoke generators on the island, simulated routine emissions from such a plant. The Group set up meteorological towers and instrument stations and spent close to ten days studying the diffusion patterns of the smoke when released into the sea breezes.

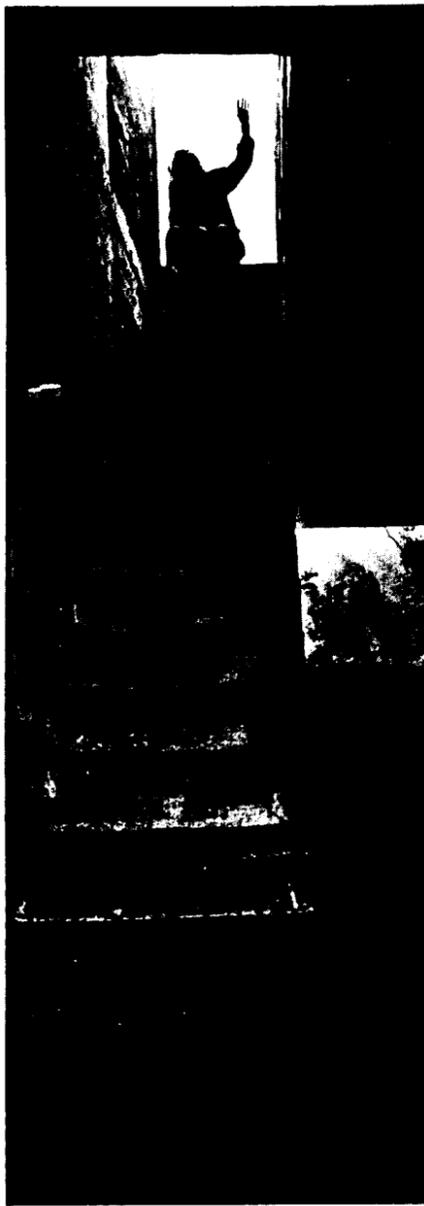
In 1896 the U.S. Government built a fort on the island as part of a vast coastal defense system to protect the country from the Spanish Fleet during the Spanish American War. But the guns, built into the huge battlements, were never fired.

The remnants of the battlements and buildings which made up the fort are still standing. They are used by research groups as overnight shelters and as giant mouse holes for the many house mice that roam the island. There used to be a species of mouse known as the Gull Island mouse but it, like the fort, is now extinct.

Not near extinction on the island, are the two species of Terns. One of the largest common tern colonies on the eastern seaboard nests there along with the largest roseate tern colony in this hemisphere, says Helen Hays, an ornithologist at the American Museum of Natural History.

The island has been a research station for the Museum since 1966. In 1966 they started to intensely monitor the tern population. They have found that the number of terns has increased from 5000 in 1966 to 8000 today. At the time the Meteorology Group was on the island most of the terns had left for the winter.

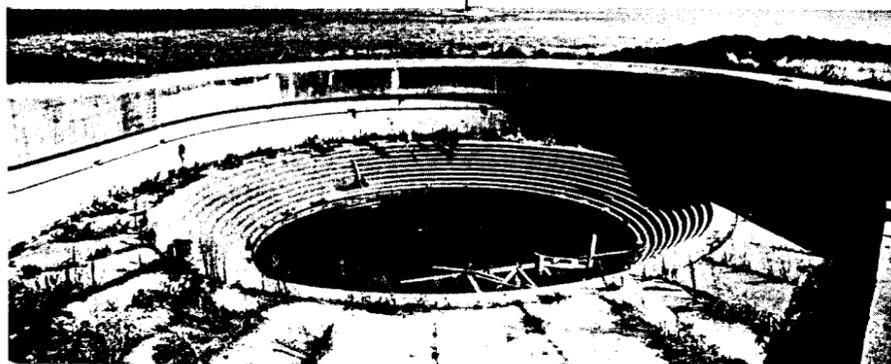
Above the island is a restricted flight area which is used by the Grumman Aerospace Corporation to test their high speed aircraft. In order to get pictures of the smoke plume from the air, the Meteorology Group had to get permission to fly a small plane in the restricted area. This was obtained from the Naval Flight Representative at Grumman.



A few moments are taken for relaxation.



Cy Fink fires up the smoke generator.



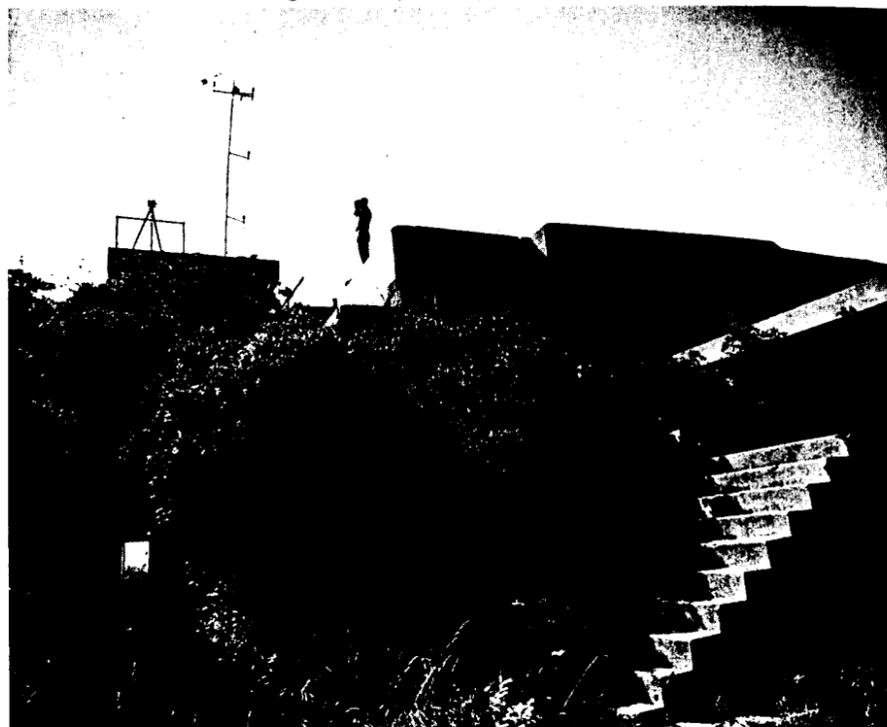
Unused gun emplacement at abandoned Fort Michie.



Sethu Raman checks meteorological data in a makeshift shelter.



Silhouetted against the sky, Gil Raynor sees Great Gull Island.



A temporary meteorological tower is a good contrast to the permanence of these old buildings.

I Didn't Know That

Official calls to all five Boroughs of New York City, lower Westchester County and Nassau County may be made using the 125 access code at rates of one to five message units, a significant saving over charges incurred using dial 9.

For example, a Rockville Centre call over 9 is six message units, over 125 the charge is only two message units.

Personal calls should be made from one of the many pay phones about the site. When using a pay phone is not reasonable and BNL operators are on duty, personal calls can be made by dialing the Laboratory operator - she will place the call and may charge it to the caller through Laboratory billing service, incurring a \$.60 minimum service charge or a charge of \$.20 per call whichever is higher. Or the caller may ask to make the call collect, third party charge or on a credit card. These latter methods avoid the Laboratory billing procedure and the related service charge. Any method results in an "operator assisted" call which generally costs \$.20 more than a directly dialed call for intra state calls; and as much as \$.50 more a call to the West Coast.

Selected Reading

- Natural History 83, October 1974
Short-circuiting the cheap power fantasy. G.M. Woodwell. 16+
- New Sci. 63, September 19, 1974
Sun on the roof. P. Branchi. 712-14
The problems of a powerful industry. M. Kenward. 716-17
Soviet's first Nobel. N.N. Semyonov talks to B. Belitzky. 732-4
- Science 186, October 25, 1974
University research and the new federalism. D. C. Spriestersbach, M.E. Hoppin and J. McCrone. 324-7

BNL Mountain Club

A peaceful canoe trip down a local river is planned for Saturday, November 16th. Call Ray Tessmer at extension 2002 with your reservation.

Arrivals & Departures

Arrivals

Edward J. Brosnan	..... Applied Math.
Daniel C. Brune	..... Applied Science
Laurence D. Fogel	..... Applied Science
Mary E. Gress	..... Chemistry
Mark O. Israel	..... A.U.I.
John R. Johnson	..... Applied Science
Peter G. Kroeger	..... Applied Science
Shui Pong Van	..... Applied Science

Departures

Michael J. Elliott	..... Accelerator
Donald H. Jackson	..... Health Phys. & Safety

Setlow

(Continued)

tanks, containing 25 fish each, from Oak Ridge to Ohio in a U-Haul van. The ordeal is about to begin once again when they move the tanks to BNL. They will eventually be set up in the Biology Department's greenhouse. Here the fish can enjoy warm temperature and lots of sunlight which they need to reproduce.

Dick did his graduate work in physics at Yale University where he taught both physics and biophysics from 1942 until 1961.

The Setlows live in Shoreham where the Long Island Sound is their back yard.



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A Veteran Snatches Glimpses From Time

July 13, 1919 was a pleasant Sunday and Edward Motjenbacker, an Army M.P., had his bride-to-be, Edith, out for a visit at Camp Upton.

He had trained there in 1917 and was back for his discharge after spending some time in France fighting with the Allies.

Motjenbacker is now 81 and lives in Queens but he remembers his World War I days at Camp Upton well. He is the great uncle, through marriage, of Vin LoDestro who works in Linac.

Motjenbacker was in Company B of the 302nd Trains & Military Police. The Company commander was Captain Wells Fargo, a descendant of the founder of the original armoured car.

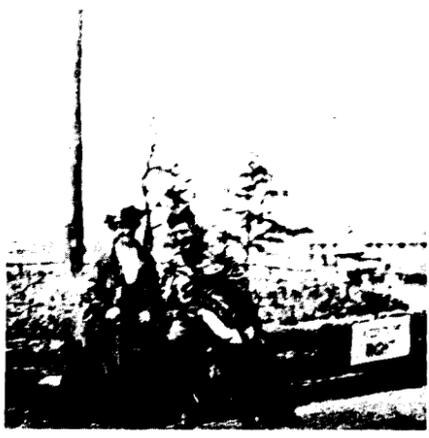
He spent the winter of 1917 training at Camp Upton. "I will never forget that winter, it was the coldest one of my life," reminisces Motjenbacker. At that time, the barracks had no insulation and the frigid winds entered the buildings through holes in the clapboard slats.

Soon he was sent to the front lines in Europe. While there, he had his picture taken in full uniform (top left). He explained that Frenchmen would travel to the various camps on the front, with a box camera and painted screen and take pictures of anyone, for a slight fee.

But on that particular Sunday in 1919, the war was far behind him. He was about to be discharged and get married. Eight months earlier, on November 11, Armistice had been signed and at exactly 11 a.m. on that day the battlefields had resounded with bugles telling everyone to cease firing.

Before leaving Camp Upton, Motjenbacker managed to snap a few pictures. Standing on the hill where the graphite reactor is today, he shot a view of the camp in the area of the railroad tracks. He took a picture of his fiancé clad in the style of the era and had someone take a picture of the two of them.

Motjenbacker visited Camp Upton once during World War II but he has not been back since. His great nephew, Vin LoDestro, has been planning to have him out, maybe some Sunday, so he can see how it has changed since becoming Brookhaven National Laboratory.



BERA Concert Series

The next concert, to be presented Tuesday, November 12, at 8:30 p.m. in Berkner Hall, will feature the London Virtuosi.

The group performing at BNL will include John Georgiadis (violin), concert master of the London Symphony Orchestra; Brian Hawkins (viola), principal viola with the London Sinfonietta; Douglas Cummings (cello), principal cellist of the London Symphony; Edward Becket (flute); Anthony Camden (oboe), co-principal oboe of the London Symphony; and David Lumsden (harpsichord), professor of music at Oxford University.

The BNL program will include music by J.C. Bach, Mozart, Telemann, Handel, Loeillet and Beethoven.

Regular admission is \$3.50; \$1.75 for those over 65 and students with I.D.; and \$1.00 for those under 18.

BNL Camping Club

Camping club members and guests enjoyed many weekends together during the summer, several of which were spent here at the Lab campground. Last weekend the group camped in Rhinebeck, New York for the long Veteran's Day weekend, to see an air show of World War I planes.

The next regular meeting of the club is scheduled for November 21 at 8:00 p.m. at the Rec Hall. An interesting program is planned which will include a movie on the history of railroading. All are welcome. Any questions concerning the club or its activities, please call Peter Fennelly, Ext. 3254.

High School Equivalency Program

There is a possibility that classes leading to a high school equivalency diploma may be offered to Laboratory employees at a nearby school. The program will be offered only if a sufficient number of employees are interested.

It is anticipated that classes would be held two nights a week immediately following the regular Laboratory work days. There will be no charge for these classes.

Interested employees are asked to notify Blanche Laskee, Personnel, Building 185.

I am interested in participating in a high school equivalency program.

Name

BNL Address

Extension

(PLEASE PRINT)

BERA Ticket Services

On sale at the BERA Sales & Services Office in the Cafeteria are the following tickets for the months of November and December.

New York Jets	
Dec. 21	San Diego Chargers
Islanders	
Nov. 19	Pittsburgh
Nov. 22	Toronto
Nov. 23	Vancouver
Dec. 5	Toronto
Dec. 7	Kansas City
Dec. 10	St. Louis
Dec. 14	Los Angeles
Dec. 21	Chicago
Metropolitan Opera	
Nov. 14	Romeo and Juliet
Nov. 25	Death in Venice
Dec. 9	Tosca
Dec. 11	Bluebeard
Dec. 25	Don Pasquale

The office is open between the hours of 7:30 a.m. and 2:30 p.m. The telephone extension is 3347.

Bowling News

Grace Fales

Red League

Our first 600 scratch series Awards went to J. Scesny 212/201/212/625, R. Larsen 205/254/618, and A. Adams 213/620. In addition, a gross Award goes to K. Asselta with his 692 gross series. Congratulations to all! Other highs: J. Petro 203, W. Reams 219, K. Asselta 202, B. Buzzeo 209, C. Gardner 201, E. Fales 200, and P. Borzi 223.

Green League

200's for the night: J. Berech 224, W. Kollmer 202/202/574, G. Speidell 200, E. Sperry 200, and J. Ferrero 220.

Pink League

Congratulations to N. Netusil who earned a patch for bowling three identical games in a series. High games for the night: R. Rosati 183, M. Stoeckel 179, H. Keeley 176, and K. Weber 172, with a 664 gross series. With only two more weeks in the first third, the Spares hold first place, followed by the Swingers, Weber's Wienies, and the Pinsplitters. The Swingers still have a makeup game so these standings could change at any time.

Black and Blue League

With two weeks left in the first third, the "Good Guys" have a good hold on first place. Lest they get too confident, there are four teams still in contention with the 5th place team only 7 points down. High games for 10/30: Lew Jacobson 229, Gene Fales 224, Joe Mayeski 213, Bill Lebitski 201, Moke Piccione 201, Rosalie Picione 182, Kit D'Ambrosio 179, Nancy Mayeski 171, Mary Austin 166/169. The pots were won by Gene Fales 251 and Kit D'Ambrosio 230.

Winners of the Savings Bond Shoot: R. Piccione, high gross game, R. Rosati, high gross series, for the ladies; K. Asselta, high gross series and R. Larsen, high gross game for the men.

Note: November 19th and 20th will be our annual turkey shoot for the respective Leagues, so sharpen up your bowling technique and bring home the "bird."

Cafeteria Menu

Week Ending November 15, 1974

Monday, November 11	
Cream of Celery Soup	
Franks & Baked Beans	1.00
Barbequed Fresh Ham & 1 Veg.	1.15
Tuesday, November 12	
Cream of Chicken Soup	
Chopped Steak & 1 Veg.	1.05
Chinese Pepper Steak on Rice	1.20
Wednesday, November 13	
Vegetable Beef Soup	
Stuffed Flounder & 1 Veg.	1.10
Swiss Steak & 1 Veg.	1.20
Special: Build Your Own Hero	1.25
Thursday, November 14	
Puree of Mongol	
Spanish Omelet & French Fries	1.00
Short Ribs of Beef & 1 Veg.	1.20
Friday, November 15	
Seafood Chowder	
Fish Cakes & Spaghetti	1.00
Pot Roast & 1 Veg.	1.20

Lights, Buzzers, Bells And Other Doodads

- A "Do you really need a light on this line?"
 B "How much is it?"
 A "Forty-four cents plus \$2.53 for the relay."
 B "I'll take it."
 A "That's \$2.97 per month."
 B "Big deal, I'll take it."

It is a big deal, \$6,924.64 per month for all the lights, buzzers, pickups and other doodads at BNL. Many are necessary, many more pay their own way improving efficiency. How many are had because they only cost pennies per day? Those pennies currently total \$335. per working day, \$6,924. per month, \$83,096 per year.

How Much Do You Smell?



Many insects and some mammals use smell as a primary means of communication. The entire economy of an ant's nest is organized by smell and some moths use smell for population control - an ability man is beginning to understand and exploit in pest control.

But what is known about man's sense of smell? Is it possible that humans communicate through odiferous messages? These questions will be examined in the next NOVA program, "How Much Do You Smell," to be broadcast on November 10. The program, produced by the British Broadcasting Corporation, can be seen over Public Broadcasting Stations.

Stony Brook Events

A one-act play from the Theatre Department, provocative movies and a multitude of musical performances highlight the week's events at the State University of New York at Stony Brook. Unless noted otherwise, the events are free of charge.

Friday, November 8

An exhibit of paintings by Lewis Lusardi entitled "Miscellany" is on display in the First Floor Gallery of the Administration Building from 8 a.m. to 6 p.m. until November 22nd. The collection spans a thirty year period from 1942 to 1972. Mr. Lusardi is the director of the Center for Contemporary Arts and Letters at the University.

The "Synergistic Mandala" exhibit by Roberta Cortese and others continues in the Stony Brook Union Gallery until November 22nd. Gallery hours are from noon to 5 p.m., Monday, Wednesday and Friday.

Sunday, November 10

The University Orchestra, conducted by David Lawton, will present a program which includes Mozart's "Eine Nacht Kleine Musik" and works by Gunod, Sibelius and Strauss be-

(Continued on page 4)

gining at 8:30 p.m. in the 2nd floor lobby of the Administration Building.

A film series exploring different views of the World War II Jewish Holocaust begins this week with "Shop on Main Street" which was made in Czechoslovakia. The film begins at 7:30 p.m. in the Stony Brook Union Auditorium.

A class in Kundalini Yoga is given at 7 p.m. in room 248 of the Stony Brook Union.

Monday, November 11

A one-act play, "Hello Out There," will be presented by the Theatre Arts Department at lunchtime on Nov. 11, 12, 13, 18 and 19. Written by William Saroyan and directed by Theatre Arts Prof. Louis Peterson, the forty minute play is about an itinerant gambler arrested and jailed in a small Texas town on a rape charge. Tickets are free and play begins at noon in the Stony Brook Union Auditorium, and continues thru: Wed. Nov. 13.

The Oberlin Trio (flute, piano and cello) will perform works by Haydn, Beethoven and Weber at 8:30 p.m. in Lecture Center 105.

A Hatha Yoga Class for beginners meets from 6:30 to 8:30 p.m. in room 248 of the Stony Brook Union. Afterwards, a beginners class in meditation meets in the same room until 10:30 p.m.

Tuesday, November 12

A solo flute recital by Jeff Cohan, a Stony Brook graduate student, will be held at 8:30 p.m. in Lecture Center 105.

Lunchtime Science and Cinema presents three films in the Old Engineering Lecture Hall, room 143, from 12:15 to 1 p.m. Sandwiches are sold or bring your own lunch. Also shown on Wed., Nov. 13.

Tuesday Flicks shows "Seven Samuri," the famous Japanese epic, at 8 p.m. in the Stony Brook Union Auditorium.

Rainy Day Crafts will be making rock jewelry this week in the Main Lounge of the Stony Brook Union from noon to 3:30 p.m. Materials, space and company provided.

The Women Writer's Workshop meets to discuss each other's writing beginning at 7 p.m. in room 237 of the Stony Brook Union. Bring something you've written and some wine and cheese.

The Society of Friends (Quakers) will meet from 8:15 to 9:30 p.m. in room 214 of the Stony Brook Union. For further information call 862-0850.

Introductory Hatha Yoga is offered in room 248 of the Stony Brook Union from 4 to 6 p.m. There is a \$3 charge per lesson. Sri Chin Moy mediation at 7 p.m. in the same room.

Wednesday, November 13

Linda Kaplan will perform a variety of works on oboe at 8:30 p.m. in Lecture Center 105.

Hatha Loga lessons from 4 to 6 p.m. in room 248 of the Stony Brook Union. \$3 charge per lesson. For further information call Fred at 246-6103.

Classified Advertisements

Placement Notices

Each week the Personnel Office lists personnel placement requisitions, currently being processed. The purpose of these listings is, first, to give notice of all non-scientific staff positions being filled and, second, to give employees an opportunity to request consideration for themselves through the Personnel Office. In filling vacancies, the Laboratory's objective is to give first consideration to present employees, as follows: employees within the immediate group having the vacancy, employees within the department or division, employees within the Laboratory as a whole.

For further information regarding a placement notice, or to request consideration for an available position, contact Supervisor, Personnel Placement & Development, extension 2874 or 2882.

- 40. OFFICE SERVICES ASSISTANT - Fiscal Division.
- 41. TECHNICIAN - A.A.S. in electronics or equivalent with heavy experience in maintenance and repair of communication and monitoring systems. Instrumentation Division.
- 42. RESEARCH SERVICES ASSISTANT - Part-time position. Department of Applied Science.
- 43. OFFICE SERVICES ASSISTANT - Temporary position. Experience in Redactron or IBM Word Processing equipment. Photography & Graphic Arts Division.
- 44. DIGITAL SYSTEMS ENGINEER - BS or equivalent in electrical engineering and 2-5 years experience in logic design. Applied Mathematics Department.

LAUNDRY OPERATOR A (1) - Plant Engineering. Application deadline: November 14, 1974.

LAUNDRY OPERATOR A, GROUP LEADER (1) - Plant Engineering. Application deadline: November 14, 1974.

LABORATORY CUSTODIANS (5) - Plant Engineering. Application deadline: November 14, 1974.

CARPENTER APPRENTICE (1) - Plant Engineering. Application deadline: December 6, 1974. Applications and additional information available at Personnel Office.

ELECTRICIAN APPRENTICE (1) - Plant Engineering. Application deadline: December 6, 1974. Applications and additional information available at Personnel Office.

REFRIG & AIR CONDITIONING APPRENTICE (2) - Plant Engineering. Application deadline: December 6, 1974. Applications and additional information available at Personnel Office.

MACHINIST APPRENTICE (2) - Central Shops. Application deadline: December 6, 1974. Applications and additional information available at Personnel Office.

OFFICE SERVICES ASSISTANT - Fiscal Division.

FIREFIGHTER (1) - Health Phys. & Safety. Application deadline: November 20, 1974.

TOOL & INSTRUMENT MAKER (4) - Central Shops. Application deadline: November 20, 1974.

Autos & Auto Supplies

69 STATION WAGON - Chevy Caprice, a/c, ps/ps, elec rear window, V8, asking \$895. 727-1329.

68 LE MANS - Hi mi, r/h, good rubber, not a gas guzler or oil burner, good cond, \$400 or best offer. Ext. 2016 or 286-0716.

2 - 15" RIMS - 5 holes, \$10. O. Booker, Ext. 4719.

POINTS, CONDENSOR, ROTOR - Mopar #MO15, for Chrysler Corp 6 & 8 cyl, 1960-72, 2 sets, \$3 per set. Joe, Ext. 4640.

2 AIR FILTERS - Lee AFL-52 for Chrysler Corp 6 cyl 1960-72, \$2 ea. Joe, Ext. 4640.

SPARK PLUGS - Champion N-14Y for Chrysler Corp 6 cyl 1960-72, 2 sets of 6 ea, \$3 per set. Joe, Ext. 4640.

66 CHEVY IMPALA - 4 dr hardtop, 283 cu in eng., good cond. Ext. 4278 or 298-4155 after 5.

65 CHEVY PICKUP - W/70 camper, sleeps 6, self contained, \$2500; camper only, \$1900. George, Ext. 2534.

68 CHEVY WAGON - Belair, 6 pass, 307 cu in V8, auto, r/h, \$700. George, Ext. 2534.

71 VEGA HATCHBACK - 60,000 mi, new brakes & muffler, ski rack, 2 snows on extra rims, \$1000. Ext. 3752, 744-9699.

65 PONTIAC TEMPEST - Conv. gas saver, excel cond. 981-5993 after 6.

68 AMC REBEL - 6 cyl, a/t, p/s, r/h, engine & running gear excel, needs 1 fender, call, look, offer. Ext. 3120 or 475-4897.

71 CAMPCRAFT - 21' tandem travel trailer, sleeps 6, fully self contained, large add-a-room, many extras, \$2850. 587-3192.

VW RADIO - Am, 6v, \$9; 560x14" tire on VW rim, \$9; pr of helper springs for car or truck, \$8. Frank, Ext. 2022, 281-3460.

CHEVY 14" WHEEL - \$4. Ext. 2041.

Boats & Marine Supplies

KAYAK - Klepper "Aerius" 17' foldboat, fully equipped for sailing, touring, whitewater, excel cond. \$450. F. Paffrath, Ext. 4407 or 864-1214.

CONTROVERSY 27 - Strip plank-1960, new engine, 1972 - roomy, fast, \$6300 - terms; would consider swap for day sailer. R. Ince, 286-0682.

LUHRS SKIFF - 23', 109 hp, gray marine engine, head, 2 bunks, oak lapstrake, must sell, no space. A steal at \$950. 589-0461 after 5.

16' DUCK PUNTY - Flat bottom, ready to use. 286-0623.

Miscellaneous

FRIGIDAIRE - 13 cu ft, 2-door up/down w/100 lb freezer, excel cond, not an elec eater. Ext. 2016 or 286-0716 eves.

RALEIGH 3-SPEED MEN'S BIKE - Sealed beam headlight, good cond, \$55. 751-1588.

WILSON T-3000 TENNIS RACKET - 4 1/2 lt-med, \$30, Dunlap maxply 4 1/2 med, \$10, Davis TAO 4 1/2 med, \$30. Ext. 3525.

CINCINNATI #2 UNIVERSAL MILLING MACHINE - Vertical head, 3 hp & 1/2 hp. 567-3885 after 6.

SKI BOOTS - Zenith, size 7, worn once, \$6. Joan, Ext. 2340.

CHINA CLOSET - Walnut finish, sliding glass doors, \$25. 48" dining table, extends to 70", \$12. Both \$35. Ed, Ext. 3753.

WASHING MACHINE - Needs fan belt only, \$20. Full size modern bathtub, \$15. Ext. 2882 or 473-9121 after 6.

20 GAL AQUARIUM TANK - Pump, light, filter, wrought iron stand, \$45. 475-6938.

KITCHEN TABLE - Brown, extendable, \$25; Clarinet, \$30. Ext. 3501 or 924-3303.

PORCELAIN PEDESTAL SINK - Mirrored med chest, side lights, all for \$25. Remington noiseless typewriter, \$25. Brunswick bowling ball, bag & shoes, size 8, \$10. Storm sash, fishing poles, Clayton Marcus colonial chair. GR5-1826.

8 TRACK TAPES - New, over 200 to choose from, \$3 ea/2 for \$5. C. Nielson, Ext. 3935.

COLONIAL SOFA - Slightly used, 70", \$25. Joanna, 281-1983 after 5:30.

LARGE WAGON - W/racks for child, good cond, \$12. Antique radio, old 78 phono records, TV console, beautiful cabinet, \$5. O. Booker, Ext. 4719.

DBL SINK - 22"x43", good cond, faucets & spray, Anderson dbl hung mullion window, like new, 62"x42". 924-4193 after 5.

30" ELEC STOVE - GE, \$40. 14 cu ft Westinghouse refrig & freezer, \$75. Mike, 878-1325 after 4:00.

CAMPER - 1969 Swiss Colony for pickup truck, 10 1/2 ft, sleeps 6, fully self contained, excel cond, \$1750. 473-3084.

PUPPIES - Labrador mix, 6 wks old. 928-7035.

3 PC SECTIONAL LIVING RM - Coffee table, end table, gold color, extra chair, pole lamp, reasonable. 732-5266 after 5.

LAWN SWEEPER - Excel cond, used very little, \$15. I. Steele, Ext. 3415.

GUITAR - Amp, mike, used once, blue metallic, nice for Christmas, \$150. 281-0243.

2 SPEAKERS - Bookshelf type, 8", acoustically sealed, \$5 ea. A. Romano, Ext. 4024.

HEADBOARD - For single bed, w/built in night tables, light, shelves, drawers, \$20. Ext. 4247 or 928-0297.

ORLON YARN - All colors, will deliver to Lab or pick up at my home, \$2.50/lb. Ann, Ext. 3143 or 732-9384 after 6.

AMPLIFIER - Fender Bassman, black, speaker enclosure w/ two 15" speakers, all tube, w/ covers, \$230. 585-2707 eves.

CASSETTE TAPE PLAYER & RECORDER - \$45, w/ adapter, 11 cassette tapes, \$3 ea. Ext. 2534.

PICKUP CAP - 36"x8', complete w/camping insert sink, gas stove, 2 bunks, \$650. Redmond, Ext. 3272.

BUFFET - Black w/white Formica top, \$35; chest, child's, white dresser, walnut sides, \$25. E. Bihn, LT9-2184.

CHRISTMAS WREATHS - Order early for Dec delivery.. Ext. 3613 or 727-1494.

BOY'S CHEST - Refinished wood-tone, 5 drawers, very good cond, \$15. 928-0297.

MODERN WALNUT CHEST OF DRAWERS - Matching night stand. \$75 or best offer. J. Cain, Ext. 3370, 727-7796.

52 GAL HOT WATER HEATER - Elec, glass lined, 2 yrs old, like new, no sediment, \$45. Don, Ext. 3511.

REFRIGERATOR - Excel cond, Philco, 16 cu ft, freezer on top, frost free, \$140. Pat, Ext. 3376 or 281-1364.

ROSEWOOD UNIT - 2 shelves (32"x12"), 1 open faced record unit, free standing, mounting hwr inc, no reasonable offer refused. 286-3742.

3PC FRENCH PROV SECTIONAL - Gold & white, ornate glass top lamp table & coffee table, like new. 981-5993 after 6.

SOFA BED & 2 MATCHING CHAIRS - Good cond, \$25; also blue chest of drawers & maple high, make an offer. 473-8011.

GUITAR - Fender Jazzmaster w/hard shell case, cord & shoulder strap, \$145. King Vox Wha-Wha pedal, \$25. F. Martin, Ext. 4145.

ALUM STORM DOOR - Std 36 1/2"x80 1/2" w/return, \$20. Child's foldup chalk board, \$5. Ext. 3121, 744-5261.

TWEED COAT - Lightweight, size 14, blue/brown/grey check, by MacNaughton of Pitlochery, never worn, orig \$60, best offer. 286-8512 after 5:30.

ORDER YOUR HOLLY HOBBIE DOLL - For Christmas, \$15. Women's bathrobes (S, M or L), \$15. Sharon 924-5482 after 6.

MEN'S BOWLING SHOES - AMF, right sand suede, new, size 8, \$5. Henry, Ext. 3084.

6000 BTU AIR CONDITIONER - Sears Coldspot, \$75. Henry, Ext. 3084 or 727-3830.

MODERN LIGHT OAK DESK & CHAIR - \$25, walnut headboard, twin size, \$8.50. E. Bihn, LT9-2184.

1966 - 150 CESSNA AIRPLANE - 8835 6, good cond, \$3800. George, Ext. 2534.

2 15 GAL FISH TANKS - W/stand, all equip & scenery, everything but fish & water, \$75. Maria, Ext. 2486.

TELEPHONE NAME CALLER - Dials 38 nos auto, w/ transformer, cost \$70, sell \$16. Saxon, Ext. 3435.

2 STEREO SPEAKERS - 8 ohm, 3"x5", in walnut enclosures, \$10. Ext. 4602.

BOOTS - Men's, rubber, hip, size 8, \$10. Ext. 4602.

KENMORE PORTABLE WASHER - 3 cycl, 2 sp, excel cond, \$120. Lois, 289-8167.

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

SOUTHOLD - 1.7 acres on N. Bayview Rd, 1 bk to beach, taxes \$140/yr, must sell, will consider holding mortgage, \$15,200. 929-4532.

RIVERHEAD - 2 fam house, 5 rms & bath, ea apt separate util, 3 car garage, plot 75x140, centrally located, church & shopping (5 min walk), \$29,750. 727-2150 after 5:30.

YAPHANK - Oversize custom ranch, 3 bdrm, 2 full baths, paneled fam rm, eat in kitchen, formal dining rm, lg living rm, 2 car garage, full basement, many extras, low taxes. 924-3298.

MEDFORD - Assume mortgage, 74 2-bdrm Levitt house, expandable upstairs, all appliances, garage, full insulation, s/s, 1/2 acre, residential area, near park, schools, mod taxes, low 30's. Ext. 3486 or 289-5245.

SACHEM - 4 bdrm colonial, all appliances, extra insulation, great area for kids, taxes under \$1000, \$38,500. Barbara, Ext. 2902 or 588-5537.

Classified Ad Policy

Deadline is 12 noon Monday for publication Friday of the same week.

1. The Brookhaven Bulletin's classified section may be used only by active and retired Laboratory employees.
2. All items for sale or rent must be the advertiser's property.
3. Ads for material acquired for resale in association with a full or part-time business cannot be accepted.
4. Firearms offered for sale or trade may not be brought on site.

5. Ads not carried because of space restrictions will be held for publication in the next issue.
6. Ads are run only once and must be resubmitted if they are to be repeated.
7. 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
- Services

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 111, 40 Brookhaven Avenue.

(Name & Phone No. To Call)

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

Send to: Brookhaven Bulletin, Building 460, 40 Brookhaven Avenue (Ext. 2345).