



George Woodwell, Biology, takes Dr. Ruth Patrick on a tour of the ecology forest which she made a special request to see.

## Time To "Rethink"

The ecological effects on an area must carefully be considered before siting a power plant, said Dr. Ruth Patrick of the Philadelphia Academy of Natural Sciences. Dr. Patrick, a member of the National Academy of Sciences and a specialist in fresh water biology, discussed these effects before an audience in Berkner Hall on April 15.

She realized the future need to build a great many power plants but stressed the importance of conserving energy. "I think it is important to think of this as a long-term goal as well as an immediate one because man can live, and live well, utilizing much less energy than he does today," she said.

Dr. Patrick quoted an official of the Dupont Company as saying that industry could probably save, without much difficulty, 25 to 30 percent of the energy it uses. The airlines and automobile owners have demonstrated that energy can be conserved in transportation also, she continued. An important consideration of the future, she says, is to "re-think" our use of energy.

The power plant of the future cannot be built without infringing on the land, air, and water surrounding it, she said. Because of her specialty in aquatic biology, she focused on the effects power plants might have on aquatic life. She primarily discussed the effects of temperature change, shock due to temperature change, and entrainment of aquatic organisms.

The surface waters contain integrated groups of organisms which not only supply man with food but assimilate man's wastes and therefore keep his waters clean. For

these reasons, we cannot ignore this aquatic system when we talk about siting power plants, Dr. Patrick emphasized.

The biology of the area must be thoroughly studied before siting a power plant. The effects on an aquatic system vary with the type of power plant and the kind of aquatic community, she said.

Temperature change can seriously affect aquatic life. Each organism in nature has an optimum temperature range within which it must stay to survive. But an organism is not really harmed if it undergoes temperature change and is quickly returned to its optimum range, she explained. The real damage occurs when an organism is forced to adjust to a temperature that is not in its optimum range. This results in shock and the productivity of the organism decreases.

The problems of temperature change occur both in the discharge zone and when organisms are sucked into the condenser of



Dr. Ruth Patrick listens as George Woodwell (left) and John Ballard describe the spray irrigation project at BNL.

the power plant during intake. If the water is passed through the plant very quickly, the organisms are returned to their optimum range quickly so they are not really harmed.

If the plant has a forced discharge canal which carries the water to an area where there are heavy currents, the warm water from the plant will be rapidly mixed with colder water. This will prevent the creation of a warm pool in the discharge zone, Dr. Patrick said.

It is important not to build a power plant where the intake canal must be located in a nursery area where eggs and young fish are developing. Power plants should be located in areas where aquatic life is less and, therefore, where entrainment would be less, Dr. Patrick stressed.

## II Symphonic Concert

The Long Island Symphonic Choral Association will give its spring concert, under the direction of Gregg Smith, on Saturday, May 4, at 8:30 p.m. in the First United Methodist Church, 603 Main Street, Port Jefferson. Selections from William Billings, Stephen Foster, and Charles Ives will demonstrate America's lively musical heritage. Also featured will be Landscapes by Gregg Smith, a musical setting of some of T.S. Eliot's poems.

## Inventory Time

As in the past years, BNL is required to take an inventory of our general stores, which includes 17,000 items with an approximate value of \$1,200,000. This effort requires the closing of the stockrooms for one day during the work week. Friday, May 10, 1974 is the date set for closing all stockrooms to perform this physical inventory.

Please anticipate your stock requirements well in advance of May 10 since only emergency orders will be accommodated during the inventory. All emergency requests for material on that day must be cleared through P.L. Borzi, Ext. 2972.

This shutdown will not affect deliveries of liquid nitrogen, liquid helium or dry ice.

## The Women In Blue

Ambition, challenge, and excitement guided Pauline Davis and Joyce Robinson in their decisions to become police officers on the BNL police force.

"It was something different and I wanted to experience something with excitement," Pauline says. Pauline, 21, almost went into the Air Force but decided "to make history" by becoming one of the first two female police officers at the Lab. She was a secretary in the Purchasing Division before her transfer to police headquarters. She remembers seeing the placement notice for police officers in the *Brookhaven Bulletin* and was interested but did not inquire about it at first, she says. She did not believe that they would consider a woman. Later, she heard that they might hire a woman, so she applied. She really wanted the position and spent many a restless night before she was informed that the job was hers.

Joyce, 24, was a key punch operator in Administrative Data Processing, and although she liked her job, she yearned for "something different." She feels that she will learn and experience much more as a police officer.

They have been scheduled for six months of training but the length of time really depends on how quickly they learn. They will undergo the same training as a male police officer. They must be familiarized with every type of fire arm from hand guns to automatic weapons and tear gas guns. They will be trained in all aspects of fire fighting including learning to drive the fire truck. The women are now spending two hours a day at the fire house being drilled in fire fighting procedures.

Do not be alarmed if a female police officer is directing traffic in the morning, because regular police duties will be part of their training. Next week they will be on night duty from 4 p.m. to 12 a.m. and later they will be put on the graveyard shift, from midnight to 8 a.m.

Joyce and Pauline both believe that they should be expected to perform any duties a male officer does. The only exception might be if a great degree of physical strength is required. There are some things a woman's body is not strong enough to do, says Joyce.

They are both filled with ambition which will not cease until they become Police Chief.

## ISABELLE Presented At APS Spring Meeting Marking 75th Year

The 1974 Spring Meeting of the American Physical Society was held in Washington from April 22 through April 25. Of special significance is the fact that this meeting also marks the start of the 75th anniversary year of the Society.

At the anniversary session on Monday, April 22, Samuel Goudsmit spoke on the differences between physics in Europe and in the United States in the 1920's and 1930's and how this led to the development of the strong physics research community in this country.

On Tuesday afternoon, at a symposium of the Division of Particles and Fields, Associate Director for High Energy Physics, R. Ronald Rau presented a paper on ISABELLE. A condensed version of Dr. Rau's paper, prepared for release to the press, is reproduced below:

The first signs of new phenomena are appearing and excitement is growing in particle physics research as new data in higher energy areas appears from experiments at the CERN ISR (Intersecting Storage Rings) and NAL (National Accelerator Laboratory). Two super-important questions are being investigated among many, many others:

(1) Do the proton and neutron have internal structure? The new evidence following the earlier work at SLAC seems to say yes, but as yet it is not definitive nor quantitative.

(2) Is it true that theorists now have a theoretical framework for unifying the electromagnetic theory (e.g., the interaction of positive and negative electric charges) with the weak force (heretofore thought responsible only for radioactive decays and the interaction of neutrinos with matter)? Recall that early in the nineteenth century magnetic and electric phenomena were totally separate. Late in that century Clerk Maxwell, the famous British mathematical physicist, put them together in the unified theory which has provided such impetus to all science and, in fact, to our modern technologically-oriented society. Can this new synthesis be achieved? Most particle theorists and experimentalists believe the answer is yes, but more experimental data is vitally needed. What ramifications would result from this new possible unification? Scientists don't know - but they need to find out.

For investigating these two crucial questions plus extending a great many new specific results from ongoing experiments, Brookhaven National Laboratory is proposing a new research facility, ISABELLE, which would permit carrying these studies to very much greater energies where the data may provide unambiguous answers to some of these fundamental problems. ISABELLE is an Intersecting Storage Accelerator, which would accelerate two proton beams, one circulating clockwise, the other counterclockwise, in two giant magnet

(Continued on page 2)



Police officers Joyce Robinson (left) and Pauline Davis ready themselves, in their locker room at police headquarters, for their second day of training.

## Official & Special Events

- Monday, April 29  
Physics/Accelerator Visiting Committee (April 29-May 1)
- Thursday, May 2  
Medical Department Visiting Committee (May 2-3)
- Sunday, May 5  
Cornell University Students Tour
- Tuesday, May 7  
Royal Military College Tour  
DAS Visiting Committee (May 7-8)
- Wednesday, May 8  
Navy Meeting - Brookhaven Center
- Friday, May 10  
Fullbright Students Tour
- Monday, May 13  
Northeastern Regional States Radiological Energy Response Workshop (May 13-15)
- Wednesday, May 15  
Navy Meeting - Brookhaven Center

## Cooking Exchange

Men Cook. May 1, Recreation Building, 12:30 p.m. Children are welcome.



Mary Dohrman, surrounded by some of her antiques, cradles one of her younger cats, Ophilia Ash.

## Watchwoman Of BNL

She has been at the Lab for almost 26 years and lives in a densely wooded area of Miller Place with ten siamese cats and one basset hound. Who is she? Everyone who has a film badge knows Mary Dohrman. In her own words, she is the President of the Film Badge Group.

Mary grew up in Kansas City, Missouri, where she worked for Remington Arms making ammunition, before being possessed with a desire to see New York City. Her wishes were answered when she enlisted in the Navy and was stationed in the Bronx. This did not stop her itch for traveling, so when she heard about the Navy's gunnery school in Pensicola, Florida, she requested a transfer. She told the Navy about her previous experience with Remington Arms, but what she failed to mention was that she had worked only with ammunition and knew nothing about arms.

The Navy transferred her to Florida where she attended gunnery school and became an aerial machine gun instructor. Soon after that she was transferred to Brooklyn. While in Brooklyn she spent a weekend on the North Shore of Long Island and fell in love with it. It was a beautiful sight and quite removed from Kansas City, she remembers.

Consequently, when Mary's term in the Navy was up, she came out to Long Island seeking employment. She applied for an opening in the Health Physics and Safety Division of Brookhaven National Laboratory. She was hired and has been working with film badges ever since 1948.

She started out in Building 144, an old barracks building, which used to stand where the Chemistry Building is. She lived on site for a while and remembers how the firemen used to invite her to dinner at the firehouse every once in a while. The whole atmosphere of the Lab was different then, she says. Everybody knew everyone else. William Floyd Parkway was no more than a small dirt road she crossed on her way to and from work each day. She lived in Northport for a while before moving to Miller Place where she has been living for the last 20 years.

One of her first duties was coding film badges. For security reasons, each facility

on site had a color code for the badges worn in them. For example, film badges worn inside the graphite reactor were salmon colored. Today, one of her most difficult duties is keeping track of all the badges. If an employee forgets to return his badge to the appropriate rack, she has to hunt it down. This is because, at the end of each month, every employee's film badge must be accounted for. If the badge cannot be located, a full investigation must be conducted to find out why.

Mary Dohrman is an activist from way back. She is an active member of the National Organization for Women, the American Civil Liberties Union, and just about every animal welfare organization known. She is one of the original women's libbers and the streaking craze didn't surprise her or her neighbors. She has been streaking for years, she mows the lawn *au naturel*.

To say she is a devout animal lover is an understatement. Not only does she care for her own ten cats and dog, she takes any other animals under her wing who need caring for. Have you ever noticed all those stray cats on site and wondered why they are so fat? Mary always carries a little extra cat food in her car just in case.

Cats are not all she feeds. People often buy little ducklings for Easter and abandon them in Miller Place Pond when they get too big. Unfortunately, they are often too domesticated by that time to fend for themselves so Mary watches over them.

She is very much opposed to the tactics of dog pounds. For this reason she is fighting for the establishment of a spay clinic on the North Shore. This would ensure a humane method of decreasing animal populations. It is more expensive to destroy an animal than to have it spayed, she says.

Besides animals, she loves sports cars and antiques. She has owned a series of sports cars including a limited edition Volvo. She spends every chance she gets at auctions and garage sales collecting antiques and other interesting paraphernalia. Each year in late spring or early summer she sponsors a huge garage sale where she sells many of the objects she collects during the year. All the profits go to various animal welfare organizations. "I never have to advertise be-

## BROOKHAVEN BULLETIN

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## Letters To The Editor

Dear Sir:

I am sorry that time did not allow me to personally say goodbye to all my friends at BNL. Best of luck and continued success to all of you.  
George J. Henik

## Free Night At Swimming Pool

The swimming pool will resume its normal schedule (see below) on Thursday, May 2nd.

To celebrate the pool's opening there will be a special no-charge swim night on Wednesday, May 1st, between 5:00 and 9:30 p.m. All employees are invited to gather up their families and come along to the pool for a free swim.

### Monday through Friday

12:00 - 1:30 p.m. employees only  
5:00 - 9:30 p.m. employees/families/  
guests

### Saturday and Sunday

1:00 - 6:00 p.m. employees/families/  
guests

### Daily Admissions

50¢ ea. employees/family members  
75¢ ea. guests (5 per family)

### Season Passes (summer season extends from May through September)

\$10 employee  
\$20 family

Season passes will go on sale at the swimming pool (during open hours) and the BERA Sales & Services Office in the Cafeteria on Thursday, May 2nd.

## BNL Rifle & Pistol Club

### Members!

Don't miss the May 8th meeting at the Apartment Area in the Recreation Building at 5:15 p.m.

Officer Stannard and Detective Bruhl of the Suffolk County Police Department will speak on Suffolk County gun laws. Visitors are invited to hear the facts on this important subject, so bring a friend.

## April Retiree



Erik Sundberg, Tool & Instrument Maker in the Central Shops Division, who has been employed at BNL since September 11, 1967, will retire on April 26.

cause traffic is jammed up around my house for miles so people find out about it," she says. If you do decide to go this year, be sure you do not hear the lawn mower running or you could be in for a big surprise.

Unfortunately, the North Shore has changed a lot since the July day in the mid 1940's when Mary saw it for the first time. The change has not been for the better, she says. She admits that if she were to see it for the first time today, she would not be as attracted to it. It is beginning to look too much like Kansas City, she says.

## ISABELLE (Continued)

structures, one sitting atop the other, to a maximum proton energy of 200 billion electron volts (GeV) in each beam. For experiments the protons in the two beams would collide nearly head on in four separate experimental areas. Thus in each collision 400 GeV would be available, 200 GeV from each particle. This is about a factor of 7 larger than currently available at the Intersecting Storage Accelerator (ISR, 60 GeV) at CERN (the laboratory at Geneva, Switzerland, run by a collaboration of European states) and thus would extend the energy domain available to particle physics substantially. Another comparison is to the 400-GeV proton beam at NAL, which upon striking a stationary proton has an effective or useful energy of about 28 GeV. It is a fact of Einstein's theory of relativity that only in a head-on collision with both particles moving can one get the highest useful energies.

ISABELLE is unique in construction as well as in physics capability. All of its magnets use superconducting coils operating at 4.2°K (-452°F). This new technology is now on hand and it provides new benefits for accelerators. In the first instance bending magnets made with superconducting material will provide magnetic fields of 40,000 gauss (40 kg) now, and probably 60 kg in the future. Most normal accelerator magnets use 13 to 20 kg. Thus the circumference of an accelerator for a given energy can be reduced by a factor of two or three. Second, these higher magnetic fields can be produced with a substantial reduction in electric power costs during operation. For superconducting materials the electrical resistance is non-existent, thus there is no heat produced in the magnet coils. However, since these materials must be maintained at a very low temperature indeed, power consuming refrigerators are required. Nevertheless, significant factors about 3-4 are now possible in the reduction of electrical power.

The two rings of magnets would form a "square" circle with circumference of about 9000 feet (2690 meters). The circle is squared by four 250-meter-long nearly straight insertions in each of the four quadrants. It is in these regions that the beams are brought into the horizontal plane and made to collide for the use of experimentalists. All of the curved portions of the rings would be in a tunnel buried under some 20 feet of sand, for radiation shielding purposes, while the four experimental areas would form rectangular bulges symmetrically spaced around the ring.

Protons from the 33-GeV AGS would be accumulated or stacked in each of ISABELLE's rings up to currents as high as 10 amperes. Then, simultaneously, the two beams would be increased in energy up to the maximum value of 200 GeV. The tube in which the protons circulate would have a diameter of 3-15 inches (8 cm) and must have a fantastically good vacuum so that only a small fraction of the circulating protons strike the residual gas atoms in the tube. Since the protons would normally circulate for tens of hours, the vacuum must be far better than the usual vacuum bottle. Fortunately that technology is in existence and has been employed successfully at the CERN ISR.

Technologically, the most exciting development has been the work on superconducting magnets. This pioneering work began at Brookhaven over ten years ago, prior to the ISABELLE concept, and its focus was to develop superconducting magnets suitable for accelerators. In the past two years Brookhaven has produced magnets meeting the criteria of field quality, reproducibility and stability under long-term testing. Confidently, one may say that superconducting magnet technology is on solid ground and will provide at least 40 kilogauss bending fields as needed for ISABELLE.

The physics potentiality of ISABELLE is clear. The use of superconducting magnets is a major breakthrough for accelerator technology, but most probably this new technology, kept alive and nourished by high energy physics, will produce much larger technical waves in other areas of our society as well; the estimated cost is substantial, \$125,000,000. Measured against the useful energy domain it spans - up to 400 GeV - its cost per GeV is far less than any existing large accelerator!

**Printers' Meeting**



The March Meeting of the Long Island Chapter of In-Plant Printing Management Association was hosted by Chemco Photoproducts Company in Glen Cove. Chemco is a manufacturer of graphic arts film, chemicals and roll film process cameras. Rich Wernli, Chemco's New York Branch Manager, demonstrated the Sparton III Roll-Film Camera to Bob Walton (left) and Ken Boehm (right), Graphic Arts, BNL.

**Camping Club**

A most interesting and informative program was enjoyed by the Camping Club last Thursday evening. Pasquale Pulsonetti, Commissioner, Brookhaven Town Department of Sanitation and Robert Reid, Brookhaven Town Board Councilman, delivered a fascinating slide-talk on the ecology programs presently underway in the Town of Brookhaven.

Solid waste is being disposed of in designated land fill sites that are earmarked for future parks and recreational areas. Each layer of solid waste is covered with sand. Ultimately when these sites are filled to capacity (in approximately 10 years) they are developed into functional areas such as public parks. For instance, one area already under construction will include an olympic-sized swimming pool, ball fields, basketball courts and other recreational facilities. A ski slope is scheduled to be built at one of the sites also.

The Town is also exploring the possibility of converting solid waste into fuel to be used in the generation of electricity. This is an expensive process at present but future experimentation is planned.

Liquid waste is being disposed of through several methods. As we have read, the Town is funding and participating in the spray irrigation program here at the Laboratory. This five-year spray irrigation program is to test the feasibility of transforming sewage into potable water by "living filtration." One phase of the program involves the installation of vinyl liners in the two meadows of the spray irrigation project. The seam in the liner is cemented prior to covering with six inches of topsoil, and planted with experimental grass.

There are experimental programs underway at several of the leaf dumping sites. One involves a school agricultural program



Ed Hagelberg, HP&S (foreground) operates one of the rigs in the ham shack of the BNL Amateur Radio Club. Sal Bozzo, DAS, and Tom Epps, Accelerator (center), look over some of the other equipment that will be used during Field Day.

whereby the leaf mulch is used as a bed for growing vegetables.

The Club will camp here at Brookhaven May 3, 4 and 5, during which time the next meeting will be held.

For information concerning the camp out, please call Peter Fennelly, ext. 3254.

**Hospitality News**

The next regular monthly coffee will be held on Tuesday, May 7, from 10:00 a.m. until noon, in apartment 10C. Mrs. Girija Chikkappa plans to talk to us about some customs in India, her home country.

Everyone is welcome. Bring your children.

**Cafeteria Menu**

**Week Ending May 3, 1974**

<b>Monday, April 29</b>	
Cream of Mushroom Soup	
Macaroni & Cheese w/1 Veg.	1.00
Sloppy Joe on Bun/French Fries	1.00
<b>Tuesday, April 30</b>	
Turkey Noodle Soup	
Beef Hash & 1 Veg.	1.00
Spaghetti & Sausage	1.00
<b>Wednesday, May 1</b>	
Vegetable Soup	
Ham Steak & 1 Veg.	1.05
Broiled Fish w/1 Veg.	1.10
<b>Thursday, May 2</b>	
Puree of Mongol	
Stuffed Cabbage & 1 Veg.	1.00
Chopped Steak & 1 Veg.	1.05
Build Your Own Banana Split	.65
	(Tax Incl.)
<b>Friday, May 3</b>	
Manhattan Clam Chowder	
Chili con Carne w/Rice	1.00
Fish 'n' Chips	1.00

**Field Day — Amateur Radio Style**

Each year in June the American Radio Relay League sponsors an event called Field Day. It is so called because in the event of a natural or man-made disaster, portable type electric generators, antennas, transmitting or receiving equipment, would have to be set up in the field to provide communications.

This event allows the amateur radio operators throughout the fifty states, Puerto Rico, and the Islands which are under the United States protection treaty, to operate their equipment under disaster conditions if such an emergency should arise.

Field Day falls on June 22 and 23 this year, and BNL employees, their XYL (wives) and harmonics (children) who hold an amateur radio license are welcome to join in the operation. Just get in touch with E. Hagelberg, W. Hayes, or S. Sajnicki and let your wishes be known.

Better yet, why not come to the club meeting at lunch time in Room A in the cafeteria on Wednesday, May 1 for an eyeball. C.U. (See you) es (and) T.U. (Thank you). A.R. (End of message) U.A. (End of Transmission).

**Bowlers — Bowlers**

**Scotch Doubles Is On**

As of this writing, there are enough teams to have a tournament. The fact is that there is only room for about 20 more teams so if you haven't gotten your entry in, hurry down to the BERA Sales & Service Desk at the Cafeteria and fill out an entrance form. Deadline for entries is being extended to May 3 to give everyone an opportunity to participate. An afternoon of fun is planned with festivities beginning around 2 o'clock with a period of "Novelty" or "Comic" bowling. Bowlers will attempt various feats to win a prize. The Scotch Doubles will follow immediately after the event. After bowling the participants will descend on the bar to await the naming of the winners of the event. While eagerly awaiting the tourney winners, the beer will be FREE, all mixed drinks will be \$.75 over the bar and hot snacks will be available. This period will last for an hour and a half.

Employees or guests not bowling, who wish to watch the bowling and sympathize with the participants in the bar, may do so for a fee of \$2.50 per person. The money is also payable at the sales and service desk at the Cafeteria.

Don't forget — Scotch Doubles — May 11th starting at approximately 2 p.m. at Port Jeff Bowl. Let's fill the house with all BNL people for an afternoon of fun. Matchmaker service is available from Helen Caisey, Ext. 3323 or Audrey Blake, Ext. 3489. Further questions on the Tourney can be directed to Jim Petro, Ext. 4421.

**Bowling News**

Grace Fales

**Black and Blue League**

With 2 more weeks to go, the Vultures and Pinsplitters are still deadlocked at 37-19. High games: Roy Marlow 216, Dick Murgatroyd 212, Budd Pollock 200, Marge Nekerman 184/176, Grace Fales 180, Pat Lebitski 166, Ellie Murgatroyd 166, Peg Taylor 166, Jo Candiano 162. Best wishes to Mary Austin for a speedy recovery.

**Green League**

Congratulations to Ed Sperry for his 212/234/634 scratch/700 series, earning his Club Award. Other 200's were: C. Tomesch 206, G. Walker 212, W. Rasmussen 214, E. Meier 235, K. Riker 204, S. Kiss 234, and L. Jacobson 231.

**Pink League**

It's been decided — the Alley Oops, winners of the first half, and the Pinsplitters, first in the second half, will roll off on April 23rd to decide the league Champions. It should be quite a match. High games for the last night of bowling: Marge Stoeckel 202/533, Grace Fales 194/529, Audrey Bangel 192, Helen Keeley 190, Kay Conkling 177, Audrey Blake 176, Kay Hunt 174, Betty Jellett 169, Helen Caisey 168, Ellie Murgatroyd 165, Jean Hamilton 161, Wilma Eriksen 161, and Grace Kyhl 160.

**Red League**

The Neutrons retain their hold on first place. High scores for the night: J. Scesny 211, K. Asselta 224, E. Fales 200, and F. Hohmann 214/203.

**BNL's Nursery School Plans for Next Year**

From early September through mid June by 8:30 every morning two groups of eager little people arrive at the BERA recreation hall in the apartment area for the start of the Upton Nursery School.

Three-year-old and four-year-old students enjoy play programs which allow a large variety of opportunities in art, dramatic play, music, outdoor large muscle activities and other experiences which build readiness for later work in elementary school.

Both individual and group activities are supervised by professional teachers with time out taken for juice, crackers and a brief rest. At 11:30 moms pick up the proud students and work they have prepared in school that day. The photos shown here were of a recent "free play" segment of a class day.

The school is a BERA activity operated for the benefit of pre-school children of all BNL employees. It is a non-profit self-supporting and cooperative school requiring the participation of parents whose children are enrolled.

Participation includes taking turns assisting the teacher during school sessions, and in the maintenance of school equipment. A "participating parent" schedule is drawn up so that a different parent is present each day to help the teacher in the classroom and participate in classroom activities.

Openings are now available for next year's classes. Inquiries should be directed to Diane Casey at 744-2639.



Mary Strand and Sei Iwai are working out a show-stopper.



Up the Jungle Gym! — It's Susan Hardy, next Asta Saulys, then Kristina Norvell, and then Mandy Strand. Sei is looking in the right direction.



In the three-year-old room, Nancy Rasmussen has her attention on some art work.



David Kolata, Bertrand van Steenberg, and Ned Berry playing Lotto. Sandy Glass, the participating parent for the day, has been dealt into the game.



Dylan Stewart and David Glass at work on their own projects.



Jason Mouzakes at work with a block set.

# Stony Brook Events

A Gatsby era Alumni Weekend Dinner-Dance, the annual Tabler Quad Springfest, and various concerts, theater productions, films, and lectures are among this week's events at the State University of New York at Stony Brook. Unless otherwise noted, all events are open to the general public without charge.

## Special Events

The Gatsby era will be re-created during the Alumni Weekend April 26-28. A "Speakeasy Night" dinner-dance Saturday, April 27 will duplicate the atmosphere of the Roaring Twenties with "bathtub gin," a free lunch counter, and jazz played by the Arvell Shaw Sextet at 8 p.m. in the Stony Brook Ballroom. Tickets are \$12 per couple for dues paid alumni, and \$14 per couple for others. Contact the Alumni Office at 246-3580 for further information.

On April 26 a Silent Film Festival will be held at 8:30 p.m. in the Roth Residential Quad Lounge with three silent film classics: Lon Chaney in the "Hunchback of Notre Dame"; Laurel and Hardy in "The Second 100 Years"; and Rudolf Valentino and Vilma Banky in "Son of the Shiek." Admission is \$.75 and refreshments will be available.

Music, beer, dancing, games and fun will highlight the annual Tabler Residential Quad Springfest to be held in the Tabler Cafeteria and Quad area. Activities will start at 8 p.m. April 26 and will run again all day April 27.

## Music

The University Chamber Choir with Ronald Jeffers, Director, will present a concert of works by Schutz, J.S. Bach, Wolf, Debussy, Barber and Britten on April 26 at 8:30 p.m. in the Second Floor Lobby of the Administration Building.

Emre Arel will present a Master of Music degree recital, April 27 on the trumpet with works by Hindemith, Wolpe, J.S. Bach and Enesco at 8:30 p.m. in Room 105 of the Lecture Center.

The University Band with Simon Karasick, Conductor, will present a concert on April 28 at 3 p.m. in the Second Floor Lobby of the Administration Building.

Sponsored by the Student Activities Board, a classical music concert will be given by Neil Edinger on April 28 at 8:30 p.m. in the Stony Brook Union Auditorium.

Punch and Judy Follies will present "How to Succeed in Business Without Really Trying" on April 27 at 2 and 8 p.m. in the Fanny Brice Theatre, Stage XII Cafeteria. For tickets and information call 246-4843 or 246-5278.

A Student Recital will be given by James Russell on the clarinet on April 29 at 8:30 p.m. in Room 105 of the Lecture Center.

Donnell Walden will present a Student Recital on the flute on April 30 at 8:30 p.m. in Room 105 of the Lecture Center.

"Mostly Guitar," a concert featuring works by J.S. Bach, Ibert, Vivaldi, Heydn, Hindesmit and others, will be held on May 1 at 8:30 p.m. in Room 105 of the Lecture Center.

## 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.

COMPUTER SCIENCE ANALYSTS - Applied Mathematics Department.

SECRETARY - Applied Mathematics Department.

SECRETARY - Purchasing Division.

SECRETARY - Physics Department.

MESSENGER - Temporary position. Staff Services Division.

### Autos & Auto Supplies

71 YAMAHA - 250 cc, road & trail. \$550. Alan Jr., 653-4632.

68 CAR OF THE YEAR - Buick Skylark Custom V8, auto trans, ps/pb, air cond, good mech cond. \$800. Ext. 4514.

HOOKER HEADERS - For '65-70 396-427 full size Chevy, \$40; headers for '66 Chevy Nova sm block, \$40; Holley cast iron intake manifold w/heads (w/o springs) for 396, \$25. Claire, Ext. 2346, 281-8306 after 5:30.

WEIAND ALUM INTAKE - W/new 4 bbl carb, for '64 Plymouth & Dodge, \$50; posi rear for '64 Dodge. Claire, Ext. 2346, 281-8306 after 5:30.

66 FORD WAGON - 289 eng, good running cond. Rolf, Ext. 4028.

2-H78-15 W/W SNOWS - On rims, 1 yr wear left, bought for '69 Pontiac Catalina but will fit all models thru 1974. \$25. 475-8079 after 6.

70 PEUGEOT 504 - 4 dr sedan, very good cond, excel mileage, radial tires. 286-3662 after 5.

66 IMPERIAL - 2 dr, fully equipped, new tires. \$475. 924-6972.

15" WHEELS & TIRES - For VW, good cond, \$4 ea; 12v gen, GM type, \$7.50; 14" Chevy wheels, \$5/pr. Bob, Ext. 4652, 289-0357.

2-F78-14 W/W TIRES - Low mileage, 4 ply, w/rims. \$35. Ext. 3065, 473-1157.

TRAILER HITCH - Class II (heavy duty) Valley Tow Right, fits 71-72 full size Olds, Buick, Cadillac, Pontiac or Chevy. \$15. R. Lundgren, Ext. 2434.

TRUCK TIRES & RIMS - 5 7.50x16 8-ply tube type tires mounted on 8-hole rims, will fit Ford, Dodge & IHC ¾ & 1 ton trucks. D. Vail, Ext. 2024.

2 FIRESTONE PHOENIX RADIAL TIRES - W/rims, 165 HR 13, like new. \$35. Ext. 2441.

OLDS RIMS - 14"x6. \$6/pr. Ken, Ext. 4407.

62 PLYMOUTH FURY - 4 dr, auto trans, ps, needs batt, best offer. 744-9434 after 7.

71 VW BUS - 39,000 mi, optional Z bed for camping, must sell. \$2400. 878-0744.

SUZUKI MOTORCYCLE - 120 cc, not street legal, runs well. \$125. 588-5833.

68 DODGE SPORTSMAN VAN AUTO - Camping set-up, excel running cond, new trans, elec sys, just tuned up. \$650. Ext. 3793.

2 RIMS - 7.50x14. 50¢ ea. 281-7844.

66 IMPALA - 4 dr, auto, ps, 283 cu in eng 1 yr old. 265-2231 after 7:30 pm.

### Boats & Marine Supplies

21' SLOOP - Gaff rig, FG over wood, compl equipped, 1971 Evinrude 4 hp. Ben, Ext. 2902.

12' AQUACAT CATAMARAN SAILBOAT - New 90 dacron sail, good cond. \$375. Hichborn, 929-4133.

21' VARIANTA FIBERGLASS SLOOP 1971 - Unsinkable, uncapizable, 113 sq ft mainsail, 23'9" alum mast, all appurtenances, want larger sailboat. Ext. 3655, 281-2002.

MARINE TOILET & HOLDING TANK - \$20. 475-4199.

12' ALUM BOAT 1972 - Sears 7 hp 1972, Tee Nee trailer, anchor & line, oars, oar locks, lights, seats, pole holders, compass. \$200. 929-6424.

28' CHRIS CRAFT 1961 - S/s radio, depth finder, auto anchor, CG approved head, new motor. \$3500. 887-2037.

12' PLYWOOD - W/10 hp Evinrude, controls, windshield, oars, anchor & trailer. Mike, 928-5031.

40 HP EVINRUDE LARK 1968 - Elec shift, w/controls, wiring & tach, excel cond. W. Sampson, Ext. 3531/3517.

INFLATABLE 2-MAN BOAT - Never used. \$40. M. Greene, Ext. 4484.

FLYING JUNIOR - 13' fiberglass sailboat, Ratsey main & jib, Hard spinnaker, trailer, moving-make offer. 744-8623.

23' KEEL CENTERBOARD SLOOP - 16 hp Palmer keel cooled, sleeps 2, 4" foam, galley, approved head, dacron-main jib & genoa fully found. 286-0206.

17'11" CRUISER INC RUNABOUT - W/60 hp & True tandem master craft trailer, pwr winch, depth compass, anchors, etc. 727-5187 eves.

### Miscellaneous

8 TRACK TAPES - All new, many to choose from. \$2.50 ea. C. Nielson, Ext. 3954.

SPRINGFIELD-SAVAGE .22 CAL RIFLE - Bolt action, single shot, new cond. \$35. Ext. 4203, 751-0835.

ORLON YARN - All colors, will deliver or pick up at my home. \$2.50/lb, \$.65/¼ lb. Ann, Ext. 3143, 732-9384 after 6.

SOLID MAHOG DIN RM SET - China closet, buffet, pads & table plus leaf, 2 arm chairs, 4 side chairs. \$500. 472-1871.

70W EICO INTEGRATED STEREO AMP - No reasonable offer refused. Frank, Ext. 2005.

GE DISHWASHER - Old but works, needs new door gasket. \$20. 928-4922.

ENCYCLOPEDIA - Enc International by Grolier, brand new-still in carton. Cost \$275-make offer. 928-4922.

TV ANTENNA - 3 alum window awnings. Ken, Ext. 3574.

FREE - Jobs (non-paying) in 2nd annual Brkhnv Hamlet Scout Fair, our Scouts need you. J. Bland, Ext. 4143, 286-1348.

1972 BRAVO CAMPER - Sleeps 8, slide-out kitchen, many extras, used on 1 outing on great trip North. Asking \$1400. Frank, 281-4179.

CHROME DIRECTORS CHAIRS - Blk vinyl seats. Were \$35 ea, new 4/\$75. 473-2473.

CARPET - Red, excel cond, put it in playrm, anywhere. 12x20, \$25; 12x12, \$15. 473-2473.

GUITAR - Elec, like new, 3 pick-ups, \$75; Encyclopedia Britannica, 1955 ed, \$50. Ext. 4214, 475-5543.

CASSETTE TAPE PLAYER & RECORDER - Hardly used, \$45; 11 tapes, \$3 ea. 399-0307.

CHALKBOARD - \$1.50; kangaroo ball, \$1.50; portable record player, \$4; all very good cond. 286-0014.

BOY'S LITTLE LEAGUE BASEBALL SHOES - Size 3. \$7 new, worn once (1 game), now \$4. 286-0014.

DRESSER - Contemporary walnut, 9 drawers, 58"x18", 2 yrs old, excel cond. \$60. 281-8557.

5½ QT COOKER/FRYER - Brand new, elec, alum basket, thermostat. \$6. 281-7844.

PONY - Palomino color, 8 yrs old, gelding, drives a cart, well behaved. 732-3135.

TENNIS RACKET - New Jack Kramer Autograph, used once, strung w/best Vantage nylon, 4%. \$25. Bob, 744-5096 after 4.

GIRL'S STINGRAY BICYCLE - Very good cond. \$25. Ext. 4551, 325-0013.

1964 TRAVEL TRAILER - Detroit, sink, 3-burner gas stove w/oven, gas heater, ice box, 2 bottle gas tanks, elec brakes, new tires plus spare. \$995. Steve, Ext. 2350, 585-8395.

GE AIR COND - 10,500 BTU, 10 temp, regular house current, excel cond, used 1½ seasons, have 2 must sell. \$150. Betty, 589-0461.

BUILDER'S TRANSIT - \$125; convertible level, \$80; Globe CB-100 w/dual conversion, 12v or 110v citizen band, \$40. Ext. 4058, 286-0436.

TYPEWRITER - 12" heavy duty Royal desk type, excel working cond. \$30. Ext. 4058, 286-0436.

PROTECT YOUR TOT - Buy our GM Love Seat, \$10; stroller w/weather guard, \$10; car bed, 1 carrier, free. 286-1528.

GRETSCHE ELEC GUITAR - W/case; Premier reverb; beginners amp; bedrm set, dbl bed frame, 8 drawer dresser, blonde finish, \$75. 757-7457.

SUBCOMPACT PULLS ITI - Apache "Eagle" tent trailer, new tires, canopy, carpet, plastic window, table, excel mattresses, sleeps 4. \$350. 286-8805.

WOLLENSAK 5280 STEREO TAPE RECORDER - 4 spd, 2 channel, reel-reel, incl mike & detachable spkrs. \$150. Padwa, Ext. 4110.

BRAUN HAIR BLOW DRYER - Excel cond, warm/hot setting. \$10. Steve, Ext. 2485.

COX TENT TRAILER - And/or tent & misc camping equipment for rent. Ext. 2485.

2-12" RIMS & TIRES - For boat or tent trailer. \$5. Ext. 2485.

IRON RAILING - 4 pcs, 2 posts & fittings. All for \$35. Ext. 4231, 325-1961.

DESK - Slant top, 2 drawers, bird's eye maple veneer, antique? 286-8831.

FLOOR POLISHER - Very good cond, \$5; TV stand, like new, \$4; kitchen ceiling fixture, \$3. 928-1942.

FREE - Part Angora blk & white male cat, 10 mos, loves people. Jane, Ext. 4046.

LAWN EDGER & TRIMMER - Black & Decker ½ hp 115v, 2 yrs old. \$10. Mike, Ext. 3198.

SLACKS - 30W-30L, \$3; jackets 12-20, \$4-5; 1 pr slacks 29W-29L; birdseye bureau w/mirror, antique, \$35. Angela, 744-5871.

GE 30" ELEC RANGE - Continuous cleaning, avocado, never used, came w/new home. Joanna, 281-1983 after 6.

KITCHEN TABLE - White formica 24"x36", very good cond; 4 kitchen chairs, need upholstering. Al, Ext. 4478.

SEARS DEHUMIDIFIER - Brown metal cabinet 24"x14"x20"h, good cond, \$50. Charlie, Ext. 4452.

WHITE WEDDING GOWN - Size 10-12, lace appliques, chapel train, veil & headpiece. All/\$100. Kate, 286-8195 after 4/27.

NYLON RUG - Very good cond, 10'9"x12' cocoa. \$30. 941-4328.

1971 COX TENT TRAILER - Sleeps 6, wire for elec, table & storage, perf. \$650. Bill, Ext. 4641.

POOL FILTER - Back wash valve, \$10; ½ hp filter pump, \$10; 50 lb bag filter charcoal, \$2. J. Ryan, Ext. 3354.

64x12 MOBILE HOME - 2 bedrms, liv rm, din area, kitchen & bath, carpeting, curtains, extras, excel cond, in park. \$9800. Mrs. Anderson, 325-0645.

TV CONSOLE - B/w Magnavox, record player, AM/FM stereo, good cond. \$75. Rudi, Ext. 4393, Ext. 3117 eves.

2 TICKETS - Mozart trios (P. Serkin, Schneider, Parnas), Metropolitan Museum, May 9 eve. \$6.50 ea. 286-3742.

SCOTTS HOPPER SPREADER - \$5. 281-7844.

CARPETS - Gold, sculptured, great cond, very lg sections, make offer. Chet, Ext. 3612, 289-7058 after 6.

SHARKLINE POOL - 25'x16'x4', 10,400 gals, new S/S filter, winter cover & 3 balloons, alum ladder, all needed access incl. \$400 firm. Ext. 4028, 289-8796.

### 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

BELLPORT VILLAGE - 4 bedrm house, fireplace, 1½ baths, 2-car garage. \$32,000. Ext. 4257.

FRANKLIN SQUARE - 5 rm house on 100'x100'. JUB-1859.

### Classified Ad Policy

Deadline is 12 noon Monday for publication Friday of the same 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 employee's 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).