

## Lab Continues To Monitor Milk

"Radioactive fallout has been detected at several areas of the U.S. as a result of a Chinese nuclear explosion in the atmosphere on September 26. The levels of fallout that have occurred do not present any risk to public health and safety. At the levels reported thus far, the fallout appears to be no more than 1% of the level at which Environmental Protection Agency guidelines recommend that some precautionary action be taken. A cloud carrying radioactive fallout moved east across the Pacific and was detected in the Pacific northwest on Saturday, October 2. The radioactivity was also reported from monitoring stations in eastern Pennsylvania, New Jersey, Long Island, NY and South Carolina beginning early Sunday. ERDA continues to monitor for levels in milk in its sampling station and will provide this information to the EPA for appropriate action." — Released by the ERDA Office of Public Affairs in Washington, D.C.

It all began here Monday afternoon when Andy Hull received a call from the Nuclear Regulatory Commission (NRC) asking him if he had seen any indication of unusual radioactive activity. That was just a hint of what was to follow.

Monday evening Charlie Meinhold got a RAP (Radiological Assistance Program) call from the desk sergeant here at the Lab. There was a problem at the Peach Bottom reactor in Pennsylvania. Contamination was found on a truck returning to the reactor that had been transporting radioactive material. A call to the Pennsylvania State Health Department confirmed that reports were coming in from other areas



Charlie Meinhold answering press inquiries.

At least three television stations were here with film crews, more than a dozen radio stations conducted interviews over the telephone with Lab spokesmen, and newspapers (including Newsday, The New York Times, the Daily News, the Long Island Press and small papers throughout the area) sent out photographers and reporters.

In addition to the Safety and Environmental personnel, Dr. Hal Atkins and Dr. Leonard Hamilton were interviewed on the medical aspects of the fallout.

The Public Relations Office stayed open until 7:30 p.m. and Carl Thien received the last call at home at 11:30 p.m. — it was UPI, one of the national wire services, getting the final results of the milk tests.

At 7 p.m. milk samples arrived from Suffolk County Health Department, and by 9:30 p.m. preliminary results showed that the samples contained levels of radioiodine well below those at which the EPA (Environmental Protection Agency) recommends action. The levels here were below 150 picocuries and the EPA action level is 4000 picocuries.

Because the count was so low, more sophisticated tests were run overnight, and Wednesday morning the BNL team determined that the levels were lower than the night before. — Carol Petraitis

## On The Political Scene

Last fall in an interview with the *Bulletin*, Dr. Dixy Lee Ray, a member of the AUI Board of Trustees and former head of the Atomic Energy Commission, said that she was thinking of seeking the Democratic nomination for Governor of the State of Washington. She did so and won the nomination in a close race a couple of weeks ago. She now faces John Spellman, a Republican, in the November 2 election.

Locally, two men connected with Brookhaven, are running for State Senator in the 1st Senatorial District. Barry McCoy, an associate professor of physics at SUNY, Stony Brook who also holds a guest appointment at the Laboratory, is the Democratic candidate. His wife Tun-Hsu (Martha) is a research associate in DAS. Frank German, Biology, is running for the same post on the Conservative ticket. His wife Mary, is employed in the Chemistry Department. They are opposed by Kenneth Lavelle, Republican.

## Bank Holiday

The bank on site, Banker's Trust of Suffolk, will be closed on Monday, October 11, in observance of Columbus Day.

## Another View Of Nuclear Technology

In an address to the College of Physicians of Philadelphia on October 6, Associate Director Victor P. Bond said that the "nuclear controversy" may be just one issue on which proponents and opponents of nuclear power focus to express their uneasiness about the whole course of today's society.

He named supersonic commercial aircraft, off-shore drilling, the Alaska pipeline and the surface mining of coal, as other technologies reaching "crisis proportions in terms of public acceptance."

Dr. Bond maintained that the safety of nuclear technology was not the real issue, that it was as safe or safer than many other technologies, but that nuclear power had become a target because it was unfamiliar to most of the public and subject to many misconceptions. Proponents of a society that requires more and better science to survive, view nuclear technology as a "must." Opponents of nuclear technology use it as a misplaced bogeyman in their efforts to halt what they believe to be society's rapid downhill course because of "it's profligate further development of resource-consuming and polluting unnecessary industries."

He said that "The most serious threat may be that nuclear power could well be resolved one way or the other on irrelevant technical grounds alone, without the real issues having been clearly articulated, let alone resolved."

## In The "Black Box"

A Lab-wide colloquium, "Mental Space in Binary Images — A Binocular Performance" will be presented by New York artist Alfons Schilling, at 4 p.m., Wednesday, October 13, in Berkner Hall. The colloquium is also open to the public.

In his latest experimental work, Schilling probes Space and Time with an invention that alternates right and left projected stereographic images until they click inside the "black box" and fuse into a three-dimensional scene that we can see without any mechanical aid. It is this interest in what takes place inside the "black box" — the relationship between what our eyes see and our brain perceives — that led Schilling to work with random dot stereograms.

In his paintings, which are paired and seen through a viewer, the images are not produced by depicting light and shadow or outline. They are in fact "invisible" or seemingly random in one-eye vision. His images are, therefore, not retinal but rather mental and are perceived in the brain through binocular fusion.

Alfons Schilling lives in New York City and is best known for his experiments in multiple image-making and for his binary paintings. He is Swiss-born and received his art training in Vienna. He lived in Paris for a number of years where his first experiments in motion and perception took place. His works are in permanent collections in Europe and America, including the Metropolitan Museum of Art. In 1975 he received a National Endowment for the Arts grant. He teaches visual perception at the Cooper Union, New York.

Refreshments will be served following the colloquium. It is hoped that some interested persons will continue discussion with the speaker, afterwards, over supper at the Center.



A model of the "black box."

Central to the problem of acceptance of nuclear power is the, "continuing misapprehension that radiation is somehow more harmful and lethal than are other physical or chemical agents," he said. Extremely high standards have been set for the detection, containment and control of radiation in nuclear power, but similar stringent standards have not been set for other technologies. Even when minute amounts of radiation are detected they are routinely recorded, and immediately get widespread publicity in the press. On the other hand, he noted, the escape of small amounts of dangerous chemicals goes unnoticed and unrecorded.

In his invited lecture, "Nuclear Technology and Its Autogenous Maladies," Bond first gave a comprehensive overview of general and radiation toxicology. He described the broad categories of somatic and genetic effects in toxicology and the dose-effect relationships. He said that "All substances and agents, including those that are usually considered to be non-toxic (even pure water) have the potential for serious injury and even death if the dose administered is high enough," and that "radiation is no exception."

He discussed at length the incident of cancer induction in man by external radiation. In summary, he said, "Radiation delivered at high doses and dose rates does increase the incidence of leukemia and several other types of cancers." With one possible exception, an increased incidence of cancer following exposure at low doses and dose rates, has not been observed. The possible exception is the increase of cancer in



Dr. Victor P. Bond

children whose mothers received x-ray irradiation for pelvimetry while carrying the child. Although there are many conflicting data with regard to cause and effect, there was agreement, he said, that "Every effort should be made to reduce the number of pelvimetry x-rays during pregnancy."

Because nuclear technology was innovative, it developed concepts of toxicity thought by some to apply uniquely to radiation. In fostering this concept, Bond said, "Nuclear technology has unwittingly been its own worst enemy." He maintained that it has become clear, through the recent quantitative study of the toxicity of chemicals, that radiation is not unique and there is no reason to believe that it is more toxic than many chemical substances.

Dr. Bond discussed safety from the standpoint that there are no absolute values and that there must be a relevant yardstick against which to judge. Any "routine" incident in reactor operation, similar to equipment failure in any engineering venture, is blown out of all proportion he said, because it is immediately heralded as an "accident" and increases public apprehension.

A commonly used yardstick, which he says is not adequate because the two are not interactive, is to compare the risks and injuries involved in automobile accidents with those of radiation exposure. A more pertinent yardstick, he said, is to use the same approaches and factors in calculating

(Continued on page 2)



Andy Hull answering calls about the fallout.

and the NRC confirmed that it was all a result of radioactive fallout from a Chinese nuclear explosion.

Back at Brookhaven, Safety & Environmental Protection people were just collecting a routine sample of rain water, and on Tuesday morning the test results confirmed that there was approximately 100 times the normal level of radioactivity. According to Meinhold that change in the test results would have been of concern if they were not able to pinpoint the source.

At about 2 p.m. the press got wind of the story and the Public Relations Office was flooded with calls. The first inquiry came from Frank Casey from WPIX-TV (Channel 11) who was in the area with a film crew, and after an okay from the Public Relations Office, Casey and his film crew were on their way out here to get some footage of the testing going on in S&EP. That call was followed by many others.

## BERA Special On The Way



Get set for good vibes and lots of laughs when Lionel Hampton and his famous jazz band appear with the sparkling humor of comedian Pat Cooper at Berkner Hall for two performances Sunday, November 7. Included in the Bicentennial price of \$17.76 per couple will be a wine-cheese intermission. Cash bars will also be open. For your convenience initial sales of reserved seat tickets will be from 11:30-1:30 Friday, October 15, at the Cafeteria. Thereafter, tickets can be purchased at the Recreation Office in Personnel.

## For the Homeowner

ERDA has published several pamphlets which may answer a number of questions homeowners have about using solar heating and hot water equipment.

"I've Got a Question About Using Solar Energy," answers the 11 most frequently asked questions about solar energy use. This pocket-sized pamphlet also tells the reader how and where to obtain more detailed information on the subject.

"Solar Energy and Conservation for Home Heating and Cooling" explains how solar technology and conservation techniques can be combined to help homeowners save money.

"Solar Energy for Space Heating and Hot Water" (SE-101) provides some of the cost savings figures that consumers and builders need to decide whether to utilize solar equipment. Charts and drawings can help the reader decide if solar equipment would be economical for a home or building in his climate zone.

According to ERDA, knowing probable purchase and installation costs, along with projected savings, can help a homeowner estimate how long it would take the solar equipment to pay for itself, and whether he wishes to make the investment.

The pamphlets may be obtained free from the ERDA Technical Information Center, Box 62, Oak Ridge, Tenn. 37830.

## Parents Take Note

If your child has not recently brought home a survey form from school concerning your place of employment, don't forget to ask about it.

Public Law 874 makes it possible for a school district to receive federal financial assistance for the public school attendance of children having a parent employed in a civilian capacity on federally-owned or federally-leased property. You fit the requirements if you were employed by Brookhaven on September 24, 1976.

Apparently some parents have not seen these forms. Make a note to check up on it, so that your school does not lose out on financial aid.

## Upton Nursery School

Upton Nursery School for three and four year old children of BNL employees still has a few openings. The school is a cooperative in which the parents assist the teachers at each session. The program is varied, including outdoor activities, crafts, music, art and some field trips.

There are two and three day a week sessions, tuition is \$24 a month for two days a week and \$35 a month for three days a week.

For further information call Sharon Paschos at 928-4270.

## Cafeteria Menu

### Week Ending October 15, 1976

<b>Monday, October 11</b>	
Cream of Mushroom Soup	
Chicken a la King on Rice	1.10
Cheese Omelet & 1 veg.	1.00
<b>Tuesday, October 12</b>	
French Onion Soup	
Chinese Pepper Steak on Rice	1.25
Roast Fresh Ham & 1 veg.	1.30
<b>Wednesday, October 13</b>	
Split Pea Soup	
Breaded Flounder Filet & fr. fr.	1.15
<b>Special</b>	
Spaghetti, Meat Sauce & Garlic Bread	
All you can eat	\$1.10 plus tax
<b>Thursday, October 14</b>	
Cream of Chicken Soup	
Beef Hash & 1 veg.	1.15
Veal Pattie Parmigiana & 1 veg.	1.20
<b>Friday, October 15</b>	
Manhattan Clam Chowder	
Broiled Filet & 1 veg.	1.15
Meat Loaf & 1 veg.	1.15

## Reminder

- Dyer-Bennet concert, October 10, 8:30 p.m., Berkner Hall.
- "A Wet-Deck View of the Tall Ships," Lecture by John R. Apel, October 11, 3:30 p.m. and 8 p.m., Berkner Hall.

## Arrivals & Departures

### Arrivals

Bruce J. Barton	App. Science
Benjamin Burr	Biology
Vincenzo Flaminio	Physics
Emil W. Fu	Chemistry
Michaela B. Golin	Physics
Druscilla Hanrahan	Purchasing
David A. Hickman	Chemistry
Bernice K. Johnson	Medical
Richard Johnson	App. Science
Carol S. Kroll	Personnel
Nancy L. Kubinak	A.U.I.
John F. Monahan	App. Math.
Mildred J. Nussberger	Purchasing
Thomas G. Owens	App. Science
Ronald D. Pillsbury	App. Science
Richard J. Scheidet	Plant Engrg.
Ann M. Smith	Purchasing
Lorillard G. Smith, Jr.	Applied Math.
Shirley Stein	App. Math.
Robert H. Swendsen	Physics

### Departures

Russel C. Dingle	Accelerator
Elizabeth E. Gilbert	Biology
Mary R. Patton	Director's Office

## Swimming Pool Closing

The swimming pool will be closed for special maintenance Monday, October 25 to Tuesday, November 16, inclusive.

**Notice to season ticket holders:** As a result of this closing, season tickets will be valid until December 31, 1976.

## Official & Special Events

- Sunday, October 10**  
Dyer-Bennett Concert - Berkner Hall - 8:30 p.m.
- Monday, October 11**  
Columbus Day
- Tuesday, October 12**  
Committee on Alternative Nuclear Energy Sources (12-13)
- Wednesday, October 13**  
Navy Meeting  
SUNY at Stony Brook Tour
- Monday, October 18**  
Low Level Radiation Meeting
- Thursday, October 14**  
Air Pollution Control Association Meeting
- Wednesday, October 20**  
Concert  
AUI Board of Trustees (20-21)

## Harpichordist Begins BERA Concert Series

The first concert in the 1976-77 series, to be held at 8:30 p.m. in Berkner Hall on Wednesday, October 20, will consist of a recital by the well-known American harpichordist Kenneth Cooper. This will be a return visit for Mr. Cooper to BNL, where he gave a much acclaimed recital two years ago.

Mr. Cooper's concert at BNL will consist of music by J.S. Bach, Handel and Purcell.

Kenneth Cooper's "extraordinary, dazzling, contagious and ingratiatingly bouncy" harpichord playing has won over music-lovers in many different countries. A graduate of the High School of Music and Art and of Columbia College, Mr. Cooper has studied piano with David Labovitz and the late Lucy Brown, and harpichord with Fernando Valenti and Sylvia Marlowe. He was first invited to Europe by Margaret Ritchie and later made a successful English debut in the Wigmore Hall. As solo harpichordist with the Clarion Concerts Orchestra, conducted by Newell Jenkins, with which he has been associated for over ten years, he has traveled in the Soviet Union and Rumania on a tour sponsored by the U.S. Department of State. Kenneth Cooper is on the faculties of the Mannes College of Music and Brooklyn College and holds a Ph.D. in musicology from Columbia University. He has written articles on a variety of subjects in such publications as *The Musical Quarterly*, *Current Musicology* and *Musik in Geschichte und Gegenwart* (M.G.G.). Mr. Cooper has been the conductor of the Cantata Singers and has directed some stage premieres, including Handel's *Susanna*.

Among Kenneth Cooper's recordings are Couperin *Duets for Two Harpichords* (with

## Bond Lecture

(Cont'd)

severity and probability of mishaps in nuclear power against any other means of producing power. Bond maintained that recent studies show that nuclear power is the safest of any current method of power production.

Nuclear technology also suffers, he said, from its association in the public eye with the atomic bomb, even though it has been explained over and over that "It is impossible for a reactor to explode like a nuclear weapon."

On the subject of plutonium, which is declared by some to be "the most toxic substance ever known to man," Bond stated, "This is manifestly untrue, since if one uses either its radioactivity or its mass as a measure, plutonium is a 'piker' compared to many other radioactive, chemical and biological toxins."

Dr. Bond's lecture was one of a series of major lectures by distinguished scholars presented by the College of Physicians of Philadelphia during the Bicentennial year. Among the other lecturers were René J. Dubos, The Rockefeller University; Paul R. Ehrlich, Stanford University; Robert Coles, Harvard University; and Alistair Cooke, author and television host.

## BNL Cooking Exchange

Our "Free Food" session showed you how to find it; now we are going to show you how to save it. Come to the Cooking Exchange meeting on Wednesday, October 13, and learn "Canning, Preserving and Pickling." If you already know how, come and pick up some new ideas or volunteer your favorite recipe by calling Marjorie Stone at 281-1169 or Judy Mills at 281-4472.

Remember - "Canning, Preserving and Pickling" next Wednesday at 12:30 p.m. in the Recreation Building. Only 75¢/person with babysitting 25¢/child.

See you there!

## Hospitality News

The next morning coffee, which originally was scheduled for October 14, will be held instead on October 21, from 9:30 to 11:30 a.m., at the Brookhaven Center. An explanation of Halloween and a demonstration of ways to decorate a pumpkin will be the theme of this meeting.

Please come and bring the children. Babysitting will be provided at no charge. It is suggested that you bring along one or two toys for your children to play with.



Harpichordist Kenneth Cooper.

Sylvia Marlowe, Decca 710159) and Vivaldi *Sonata in A Op. 2 No. 2* (with Ruggiero Ricci, Decca 710117). He is the harpichordist in Vanguard's recent premiere recording of Rossini's *La Pietra del Paragone* (VCS 10087-9) and will shortly be recording a Scarlatti record, also for Vanguard.

Kenneth Cooper has made a specialty of the music of the 18th century, and is now known for his prowess at improvisation, a skill highly prized then as well as now. More recently he has emerged as one of the innovators of the current ragtime revival.

Block of five or more tickets purchased at or before the first concert are \$3 per ticket. General admission is \$4; Students and persons over 65, \$2; Persons under 18, \$1.

**BROOKHAVEN BULLETIN**

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**In Memoriam**

Charles C. Patrick, a Steam Fitter A in Plant Engineering, died on Saturday, October 2, 1976. Patrick had been at the Laboratory since September 2, 1963.

Marty Caunter, his general supervisor, said, "Charlie was well liked by all his fellow workmen. He was always helpful and willing to tackle anything."

**Letters To The Editor**

To the Editor:

The National Association for the Advancement of Colored People is in dire financial straits. The very existence of the oldest and most respected civil rights organization in the nation is threatened by a \$1,250,699 judgment by a Mississippi court.

This award was the result of a lawsuit filed in Oct. 1969 by a group of Mississippi merchants because of a boycott conducted by citizens of Port Gibson which began in 1966 and lasted through 1967. The NAACP's General Counsel characterized the decision as a "legal lynching" which "threatens to put us out of business."

Local Mississippi NAACP officials and members participated in this boycott along with other organizations. The impact of this judgment is being felt solely by the NAACP mainly because those civil rights organizations which sprang up during the 60's no longer exist while the NAACP has endured.

Roy Wilkins has sent out an urgent appeal through the local branches to ask all churches, synagogues, civic organizations, and individuals of good will to come to the aid of this great American institution.

How can you help? Send contributions to the Brookhaven Town NAACP, P.O. Box 1, Port Jefferson, N.Y. 11777. Take out membership in this organization whose purposes since 1909 have been in harmony with the U.S. Constitution. *Membership* - \$6.00 minimum; \$10.00 Contributing; \$15.00 Family; \$500.00 Life.

—Kenneth Anderson, President Brookhaven Branch, NAACP

**A Metric Success**

Despite the rainy weather, a record 87 runners participated in the annual fall BNL Run on Sunday, October 3. This was the first time that metric distances were run and judging from the comments it was indeed a success.

The male 20-kilometer winner was Paul Fetscher of the Long Island Athletic Club who set a course record time of 71 minutes, 8 seconds which will be hard to beat. The female 20-kilometer winner was Annette Racaniello, daughter of Vinnie Racaniello, Accelerator, with a time of 90 minutes, 5 seconds. The male and female winners for the 10-kilometer race were Bob Rindfleisch of Selden and Margaret Way, University of Massachusetts, with times of 39 minutes, 15 seconds, and 45 minutes, 43 seconds, respectively. Chris Matthews of Patchogue was the male winner in the 5-kilometer at 17 minutes, 55 seconds, while the first female was Kathy McIntyre also of Patchogue, with a time of 18 minutes, 40 seconds.

As is always the case, but this time more than ever, the success of these BNL runs are highly dependent on people who volunteered their time. Therefore, the Runners Club would like to thank Bob Powell (Reactor) the meet director; Hermann Geist (Pl. Engr.) who was everywhere; Betty Roche (DAS), Madeline Windsor (TI), Mrs. Britten and Mrs. Oldham who handled the registration; Ralph Fairchild (Medical), Dan Oldham (Reactor), Tom Botts (DAS), Chuck Nauman (Biology) and Mrs. Oldham who handled the timing and scoring.

The cooperation of Captain Baer and his men of Security is greatly appreciated.

A word of thanks must also be extended to the outstanding aid given by the BNL Radio Club.

**A Red Hot Cast**



The entire cast of "Last of the Red Hot Lovers." On the couch Janice Olsen (Bobbi) and Bill Love (Barney). At the rear, Grace Schiro (Jeanette) and Jane Love (Elaine).

Should one of the several Presidential candidates be invited to see the BNL Theater Group's "Last of the Red Hot Lovers?" The answer, my friends, is found in the text of this Neil Simon comedy which will sizzle and crackle in Stage II on October 15-16 and 22-23, 8:30 p.m.

All the ingredients are here for a finished product - excellent writing, good direction and four fine performers particularly well suited for their roles. There's not a weak link in the cast - and it's the cast that will draw the smiles and laughter to make this an unusually enjoyable evening for family

and friends.

We urge you to buy tickets in advance because the auditorium is small. Don't count on a seat without having a ticket. For the location of the nearest ticket seller, call Sharon Smith, Ext. 3995 or make a noon-time visit to our booth in Berkner Hall.

**Sport News**

**Football**

The Sweatogs, surprise of the league, won another game in the last minute beating the Old Timers 24-19. Warren Uhl of the Hogs had two T.D.'s including the game winner. The remaining Hog T.D.'s were by Schnaars and Petrick. The Old Timers T.D.'s were by Reams, Martin and Petty.

The Slow Pokes beat the Chickens 34-8. The Pokes T.D.'s were by Nordstrom (2), Johnson, Oldham and Donaldson on passed by Prach. Mike Bannon had the Chickens lone T.D.

Roga's second string quarterback Ed Taylor led his team to a 25-6 win over the Tee-Dees.

**Standings**

	Won	Lost
Slow Pokes	2	0
Sweatogs	2	0
Roga	2	0
Chickens	0	2
Old Timers	0	2
Tee-Dees	0	2

**Bowling**

**Red League**

Roy Marlow bowled well with a 221/574 scratch, 664 gross but still missed his club award. One more mark Roy! Other high games were R. Meier 217, E. Meier 205/202, W. Reams 204.

**Purple & White League**

The Pin Packers now lead the league, closely followed by the Flounders and the Good Guys. Marshall Bull earned his club award rolling a 200/167/202 for a 704 gross series. High games for the women were Marge Belligan 169, Diane Casella and Betty Roche each with a 167.

**Green League**

The Blue Jays battled into first place by taking eight points from the Pinball Wizards. Herm Haller had a 214 and Frank Green 206. The Got-A-Hit-Ums took eight from the 76ers. The Charley Browns fought the Old Timers for five points. Gene Fales had a 201. The Sparks dropped the Pick-Ups to third by taking eight points. Ed Malcom had a 209 game. The Super Cools bombed the Sandbaggers for eight points as B. Belligan rolled a 206 and J. Bartalomy a 204.

**Pink League**

High games for the night were Marge Stoeckel 178, Lindora Boyd 170. High gross pot was won by Marge Stoeckel with a 218.

**Basketball**

Every Tuesday at 5:15 p.m. there will be pickup basketball games at the gym for employees interested in playing in the Lab league this year. In order to organize and balance teams we need the names of all players, new and old alike. You can do this by sending your name and extension to Dr. K., Building 130, or by talking to Dr. K. in person on Ext. 2614.

We plan on beginning the league on the first week of November so we need these names by October 22.

Even if you have played for years, we need a commitment by October 22. Let's also see some of the old players who have deserted us.

**Bicycling**

First, a reminder of the Riverhead Run repeat on October 10; this 65-mile ride leaves at 9:00 a.m. sharp from the municipal parking lot just north of the traffic circle in Riverhead next to which a Howard Johnson's is located. The ride goes through Sag Harbor, Shelter Island and Greenport, and was thoroughly enjoyable last July.

The Grumman and Massapequa clubs are sponsoring a 25-mile "wine and cheese" tour for adults only on November 7, starting at 10:00 a.m. at Brady Park in Massapequa and biking to the Walt Whitman house and back. There is a \$2.50 fee which includes the goodies afterwards.

**Bike Race Rained Out**

The BNL 17.5-mile Fall Bicycle Race scheduled for last Sunday, October 3, was postponed because of rain and is now scheduled for Sunday, October 17, at 10:00 a.m., with registration from 9:00 a.m. There is an entrance fee of \$1 and protective head-gear is recommended. The race is open to all; minors must have parents approval, for which an advance registration form may be obtained from Gerry Morgan, Ext. 4841, Bldg. 815. Rain date is October 31.

**Rifle and Pistol Club**

The regular monthly meeting of the BNL Rifle and Pistol Club is scheduled for October 13, 5:15 p.m. in the Recreation Building.

Club activities and election of officers will be discussed. All members are urged to attend this meeting.

**Archery**

A season's end review on the accomplishment of the BNL archers seems in order. As hoped for earlier in the season, one of our members achieved national standing. Joe Bauernfeind reached the lofty status of being the second best amateur archer in the country. There were 1300 participants in the National Tournament where Joe turned in a score that was difficult to believe in five days of competition. Of a possible 2800, his score was 2784. This equates to finding the elusive bull's eye 469 times out of 476 arrows in distances of 20 yards to 80 yards. Having been previously exposed to this particular course in Aurora, Illinois, I can testify to its difficulty and well-earned congratulations are in order.

Considering Joe's showing at the National many of us thought that the State Championship was well within his grasp. Alas, the State is a three day affair and for some reason Joe missed four arrows out of the first eight. His attempt at rectifying the poor start by going perfect the remainder of the tournament (252 arrows) was good only for a three-way tie for second place, one point behind the champion.

A most trying situation was faced by a few of us more adventurous archers who ventured to Jay Peak in northern Vermont where a previous National had taken place. We erroneously assumed that the New England Championship would be held on the same course; however, the surprise was on us when we discovered the course was a ski slope where finding a level and/or dry spot to stand on was impossible. If the footing didn't bother you, the wind and cold temperature did. We didn't stay for the awards but the standing for the Guest Division was Joe Bauernfeind first, and Carl Cantera second.

We now go into the indoor season with the hope that there may be some good reports in the future.

**Carmen's River Canoeing**

The BNL Mountain Club has scheduled a lovely Indian Summer canoe trip on Carmen's River for Saturday, October 23. Fresh water canoeing through South Haven Park in the morning will be followed by salt water canoeing down to Beaver Dam Road.

Ring up Ray Tassmer, Ext. 2002, to make reservations. Also, please call if you have a canoe that the Club may borrow for the day, as they are rather scarce on Long Island.

## 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.

219. COMPUTER SCIENCE ANALYST - BS degree or equivalent in engineering with work experience in programming or MS in computer science. Work with analysts to perform technology and scenario assessments using computer models. Aid in analyzing results of computer runs and designing scenarios. Department of Applied Science.

220. STEAMFITTER A - Under minimum supervision, lays out, constructs or installs, repairs and maintains heat, steam and water distribution systems, related facilities and auxiliary equipment, piping and equipment utilizing heat, steam and water distribution services. Must be able to perform incidental welding (gas and elect.) and burning. Plant Engineering Div.

221. BIOLOGY ASSOCIATE - Temporary position. Biology Department.

222. NUCLEAR ENGINEERING ASSOCIATE - MS or equivalent with experience in the nuclear industry, preferably in the commercial fuel cycle including power reactors. Degree or experience in legal areas highly desirable. Work will be in the design and analysis of safeguards and security systems for nuclear facilities. Emphasis is expected in areas such as guard training and qualifications, threat studies, and other elements of physical security systems. Department of Applied Science.

### Autos & Auto Supplies

68 COUGAR - Auto, ps/ac, am/fm 8-track w/spkr. Asking \$825. 289-7621.

BUMPER - Step down type. Bob, 475-4382.

2 TRUCK RIMS - 75 Chevy, 8 lugs. \$13 ea. Angelo DiDio, 286-0372.

73 MG - Midget, maroon, new battery, muffler, am/fm 8-track stereo, good cond, best offer over \$1500. Ext. 2874, 281-2004.

75 YAMAHA - RD 250. 363-5303.

69 OLDS 98 - Ac/ps/pb, auto trans, needs muffler. \$400. 698-7051.

RIMS & HUB CAPS - 4, for '76 Dodge van, near new. \$5 ea. Ext. 2492, 475-8658 after 6.

64 VW BUG - Good eng, tires, battery, runs daily, badly rusted. \$200. Ext. 4748.

MOTORCYCLE - 71 50 cc Suzuki, good cond, needs minor work, accessories incl helmet & bracket set up for transporting. \$125 firm. 585-9816.

69 CADILLAC - Sedan de Ville. \$940. Ext. 3267.

74 SUPER BEETLE - Volkswagon, excel cond, owner in service, must sell. 929-6293 after 5.

RADIAL TIRE - Steel-belted, Sears, F78-14, less than 2000 mi. \$30. Audrey, Ext. 3489, 727-7142.

68 CORVETTE - 327 cu in, 4 spd, am/fm radio, excel cond, mags, reasonable. John, Ext. 3696, 281-2346.

71 GRANDVILLE - Ps/pb/ac, low mi, good cond, 2 dr, wholesale price. Bob, Ext. 4652, 289-0357.

LANCIA BETA - Sedan, new, Nov '75, under warr, 6400 mi am/fm stereo cassette. \$4200. 475-0592.

70 PONTIAC BONNEVILLE - New radials, tape deck & converter, very good cond. \$1000. Bill Frank, 736-8216.

HOLLY CARB - 650 double pumper brand, new, still in box. \$100. 878-2486.

67 CHEVY CARRYALL - Old lab truck, 60,000 orig mi, good mech cond, needs body work, auto trans. \$600. Paul Sparrow, Ext. 4665, 727-4859.

69 CHEVROLET CAMARO - Convertible, 307 V8, 3 spd, excel running cond. \$950. 475-4286 after 6.

67 TEMPEST - Body excel, mech sound. Asking \$450. 589-0461 eves.

71 DATSUN 510 - Standard trans, 4 dr sedan, 2 Semperit steel-belted radials, excel cond. Nancy, Ext. 3404, 744-8487.

71 PINTO - Body hurting, but excel eng. \$200. Jim Lynch, Ext. 4510, 698-8614.

70 CHEVY NOVA - 2 dr, 6 cyl, auto, ps/pb, excel cond, 20 mpg, have 3 cars, 1 must go. \$1200. Lloyd, Ext. 3381, 286-1024.

69 MACH II - 428 Cobra jet, new paint, new tires, good cond. \$1100. Murdock, Ext. 4851.

63 FORD FAIRLANE - 13" excel tires, can run w/min work. \$35. Dunning, Ext. 4285.

MOTORCYCLE - 72 Honda CB 450, new rear tire, 9400 orig mi. \$750. C. Nauman, Ext. 3412, 286-3764 eves.

ROOF CARRIER - Large plywood w/automatic canvas cover for a lg station wagon. Ext. 4581.

68 VOLVO - 142, 2 dr, auto, orig owner. Asking \$775. Ray, 281-3192 after 6.

59 VW BEETLE - New interior, paint, good running cond. \$250. 281-3460.

71 MUSTANG - 302 auto, ac/ps, r&h, chrome wheels, vinyl roof, excel cond. \$1800. Steve, Ext. 4507.

68 CHEVY PICK UP - ¾ ton, 3 spd, 74 bed, 74 trans-mission, r&h, 46,000 mi. Asking \$1200. 825-4352 after 6.

72 HONDA - 70 road & trail, good cond, low mi, will negotiate. Ext. 4132, 924-4328.

1968 DODGE MONACO - Excel running cond. \$475.00. Whitey, 2913 or 928-3088.

1965 CHRYSLER WAGON - Excel engine plus new parts. Needs paint \$300.00. Whitey, 2913 or 928-3088.

### Boats & Marine Supplies

16' RUNABOUT - W/40 hp elec & trailer. \$550. 581-0932 after 6.

CANOE - 18' Kevlar Mad River w/paddles & life jackets, 1 yr old, cost \$600, sell \$425. 286-8915 after 6.

21' GALBRETH - Jersey skiff, 200 hp, fresh water cooled, 1959. \$1600. Ron, Ext. 4082, 289-1003.

20' WEST WIND - 80 hp Evinrude, 1968, \$2100. A.G. Holtz, Ext. 4502, 286-8605.

OUTBOARD - British Seagull, 2½ hp, 40+, long shaft, used less than 12 hrs, excel cond. \$200. C. Nauman, Ext. 3412, 286-3764 eves.

### Miscellaneous

KEROSENE HEATER - Pot type, excel for garage, shed, etc, 12"x12"x39", \$25. Paul Sparrow, Ext. 4665, 727-4859.

DIVERS - Calypso III regulator w/Dacor underwater pressure gauge, weight belt w/20 lbs, USD buoyancy compensator. Nancy, Ext. 3404, 744-8487.

VANITY - Or sewing table, 6 drawer, \$10; guitar, excel for beginner, \$5. Nancy, Ext. 3404, 744-8487.

WOMEN'S 10-SPEED BICYCLE - Austrian, 2 yrs old, hardly used, orig \$150, asking \$75. Pat, Ext. 2877.

AZALEAS - Large azaleas, \$5 ea, 100 to choose from. Pat, Ext. 3376, 281-1364.

LAWN ROLLER - Also small lawn spreader, cheap. 286-9158.

BATHRM SINK - W/faucets, \$5. Bill, Ext. 4526.

METAL FIREPLACE - Free standing w/firebrick floor & metal screen, orig cost \$200, sell for \$75. Ext. 2384.

HOUSEHOLD ITEMS - Sunbeam mixer w/attachments, \$12; maple night stand, \$6; end table, \$3; portable typewriter, \$8; 2 blue wood & canvas yacht chairs, \$10 ea. F. Cowan, 286-0508.

STOVE - Cast iron kitchen cook stove, wood or coal, old but in good cond. \$250. 727-4859.

JOINTER PLANER - 4" w/motor & stand, good cond. \$40. Paul Sparrow, Ext. 4665, 727-4859.

MOTOR HOME - Ford custom mini, 35,000 mi, sleeps 5, completely self-contained, extended bumper, sacrifice. Flo, 732-9061.

BICENTENNIAL PUPPIES - Conceived July 4, mother schnauser, father ?, only 6 left, free. Lloyd, Ext. 3381, 286-1024.

RCA B&W TV - Colonial console, excel cond. \$70. Georgia, Ext. 2318.

BASSET HOUND - Pedigree w/papers & all shots, white w/brown markings, male. \$125 or best offer. Carol, 475-8498.

FIREPLACE - Free standing, 34" colonial, flat black, never used. \$125. Rick, 286-2108.

ORGAN - Wurlitzer Console, Centura Model 805, walnut, 3 keyboards, electronic synthesizer, full manual keyboards & pedals, bench & many accessories incl, superb cond, excel buy. \$3600 firm. 585-9816.

FREE FLAGPOLE - About 15' high, like new, complete, you pick up. Ext. 3060.

GARAGE SALE - October 9 & 10, from 9-4, small furn, household items, toys, clothes, etc. 104 Dogwood La, off Roe Ave, E Patchogue.

YARD SALE - Collectables & furniture, rain or shine, Oct 8 & 9, 10-4, S Howells Pt Rd, Bellport.

YARD SALE - Fri & Sat, Oct 8 & 9, rain date, Fri & Sat, Oct 15 & 16, 33 Norton St, Patchogue.

YARD SALE - Oct 9 & 10, 10-4, 51 Market St, Port Jeff Station.

YARD SALE - Must leave, Barnsley Crescent, Mt Sinai, Oct 16-17, Ext. 3403, 473-4757.

DINING RM SET - Maple tone formica finish table & leaf & 4 maple chairs. 928-3863.

QUEEN SIZED MATTRESS - Serta w/box spring & frame, excel cond. 928-3863.

TRAVEL TRAILER - 74 Playmor, 13½' w/elec brake controls, many extras, beautiful new cond, used very few times. \$1225. 273-9135.

2 LOUVERED WINDOWS - Aluminum, 40"x20", frosted. \$15 each. Ext. 4285.

RIDING MOWER - 3.5 hp, belt driven, 2 forward gears, needs work. Best offer over \$35. Dunning, Ext. 4285.

BOX SPRING - Sealy Posturpedic, excel cond. \$45. C. Nauman, Ext. 3412, 286-3764 eves.

PARAKEET - Blue & yellow male, orange cage & attachments. \$15. 281-8884 after 6.

FRENCH BABY CARRIAGE - Landau type & mattress, clean, very good cond. \$40. J. Louis, Ext. 4762.

ELEC SISSORS - Good cond, \$7; child hobby horse, good cond, \$4; elec wall clock, good cond, \$3. O. Booker, Ext. 4719, 727-5912.

ALL WEATHER COAT - London Fog, size 44L, belted, tan, zip in pile lining, excel cond, worn twice. \$30. 473-1286 after 6.

**Ads left out of this issue because of lack of space need not be re-submitted in order to run in next week's issue**

CAST IRON STOVE - Log burning, \$50; 20 lb propane tank, \$10; 3½" vice, \$6. 589-9103.

POMERANIAN - Black male. \$70. 281-3992.

FREEZER - 22 cu ft, upright, self-defrost, almost new, will deliver free. 924-3261, 8-9 am or after 6.

22" RCA TV - B&W console, 2 speaker. Ext. 3392, 475-8330.

FREE KITTENS - For adoption. R. Mukhtar, Ext. 4389.

STEREO CARTRIDGE - Magnetic, Shure V15 type II, very good cond. \$45. Hans, Ext. 4581, 281-5563.

PALOMINO GELDING - 12 yr old, very well broke, 15½ hands, beautiful animal. Lois, Ext. 4672, 929-4753. \$450.

QUARTER HORSE FILLY - 4 month old Appendix registered, excel bloodlines, all brown. Asking \$900. Lois, 929-4753.

GRAY PONY - 11 yr old, 11½ hands, excel/children. \$150 w/saddle & bridle. Lois, Ext. 4672, 929-4753.

QUARTER HORSE MARE - 6 yr old registered, in foal to thoroughbred, due next May. \$600. Lois, 929-4753.

PROJECTOR - Kodak pocket carousel, new w/120 slide tray, zoom lens, carry case. \$75. Fred, Ext. 4613.

73 NIMROD CAMPER - Sleeps 6, sink, stove, ice box, holding tank, canopy, excel cond. \$1200. 399-1399.

ANTIQUE RADIO CABINET - Good cond. \$100. 286-0204, Ext. 4088.

RCA COLOR TV - Contemporary cabinet, needs small tubes. \$65. Ext. 4088, 286-0204.

SLIDE HOLDERS - Airequip metal, \$1.35 each. Irv Meyer, Ext. 3038.

DEN CHAIRS - Black vinyl, like new. \$35. Fred, 289-1041.

GIRL'S CLOTHES - Size birth - 5, some boy's, size 10, crib, strollo-chair & carriage set, cheap, love seat, 2 GE TV's. 286-2287.

SKI BOOTS - Women's yellow leather Reicher, 8½ N, with rack, \$8; women's Koflach, 8½ N, \$12; men's leather Henke 11 M, w/rack, \$14, reasonable cond. 589-1145.

67 APACHE TENT TRAILER - Sleeps 6, canvas, 2 yrs old. Sacrifice, \$450. Fred, 289-1041.

ELEC CAN OPENER - W/knife sharpener, \$5; 5' skis & poles, \$20; antique bedrm set w/mattress, \$200. Linda, 878-4077.

130 BRICKS - ½ hp pump; 40 gal tank; \$30 takes all. Les or Joan, 472-0721.

DINING RM SET - Handyman's. \$75. 924-7759.

RUG - 14x15, sculptured red w/pad, good cond. \$30. 821-0214.

SOFA - Thayer Coggin contemporary sofa, 44"x19", tapestry print, excel cond. Best offer. 821-0214.

DIVERS - Navy style buoyancy compensator, \$45, excel cond w/2 cartridges. 473-3604 after 6.

STEREO - Am/fm MPX receiver, tube type, made by Pilot, excel cond. \$60. 473-3604 after 6.

CAMPER - Winabago for 8' pickup, sleeps 3, sink, stove, refrig & many extras, all excel cond. Asking \$535. 475-8724.

REFRIGERATOR - Coldspot model 72, frostless, 16.6 cu ft, white, right hand door, immaculate. \$110. 286-0384.

DINING RM SET - 9-piece contemporary, light walnut. \$275. 744-2821.

PORTABLE SEWING MACHINE - General elec, as is, \$10; elec sewing machine in wooden cabinet, as is, \$10. 727-5527.

PARKING STOP LIGHTS - 5", \$3; small red & yellow clearance lights, 75¢; for trailers, RV's, pickups, vans, etc. Frank, Ext. 2235, 727-5527.

25" COLOR TV - Zenith, 1965, walnut console, \$25; maple armchair, \$12; vacuum cleaner, \$20; hand trunk, \$5; porch glider, \$25. F. Cowan, 286-0508.

2 END TABLES - Coffee table, walnut, make offer. 472-0552 after 5.

TAPE DECK - Panasonic 8-track, stereo, cost \$60, like new, make offer. 472-0552 after 5.

SLIDE RULE - Model 20 Basic, complete set Tacro drafting tools, make offer. 472-0552 after 5.

TYPEWRITER TABLE - Metal, new. \$7. 472-0552 after 5.

EGG COOKER - Presto, new in orig box. \$5. 472-0552 after 5.

ZENITH STEREO - Am/fm radio tuner, walnut cabinet, cost over \$300, make offer. 472-0552.

ROLLER SKATES - Precision w/case, 8½, make offer. 472-0552 after 5.

LAWN SWEEPER - Cost \$40. 472-0552 after 5.

BOSTON ROCKER - Excel cond, cost \$50, sell for \$35. 472-0552 after 5.

CHAIN SAW - McCulloch, heavy duty, 21" cutting bar. \$100. 286-8923.

ARTIFICIAL FIREPLACE - Brick w/12' raised hearth slate top, elec logs. Jim, Ext. 4547, 289-7470.

CREE TRAVEL TRAILER - 18', self-contained, gas stove w/oven, refrigerator. \$1250. Ext. 3143, 475-1111.

### 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

PATCHOGUE - Roe Blvd area, 3 bedrm ranch on deep plot, wood shingles, fireplace, bay window, full basement, garage & deck. 331-1718.

E PATCHOGUE - 4 lg bedrms, spacious living, fireplace, formal dining, lg kitchen, 2 baths, 2 car garage, enclosed porch, s&s, ac, 160x237 partially wooded lot. 475-6916.

MASTIC - 3 bedrm ranch, near Lab, carpeting, appl, 100x150 fenced yard, full basement. \$29,000. Ext. 2042, 399-0374 after 5:30.

4 BEDRM COLONIAL - 2½ baths, fireplace, finished basement, lg back patio, s&s, all appl, carpeting, must see. \$53,000. 751-8918 after 5:30.

WADING RIVER - Lovely ½ acre wooded lot, 3 bedrm, lg 2-car garage, full basement, fireplace, priv beach, washer, dryer, freezer. \$38,500. Al, Ext. 3535, 929-6940.

PATCHOGUE VILLAGE - 3 bedrm ranch, expansion attic, finished basement, most appl, country kitchen, attached garage, exterior maintenance free. \$34,000. Ext. 2290, 475-7094.

BLUE POINT - 4 bdrm ranch, living rm, lg family rm, screened porch, garage, tool shed, 1½ baths, corner lot. Asking \$50,000. 363-6366, Ext. 4232.

PORT JEFF VILLAGE - 3 bedrm ranch, 1½ baths, lg kitchen, fireplace, garage, ¼ wooded acre. \$45,200. 473-7750.

MT SINAI - Or rent, 3 bedrm ranch, cathedral ceiling, living rm, dbl fireplace, 1½ baths, 2 car garage. Herb, Ext. 3403, 473-4757.

MT SINAI - Immaculate 4 bedrm colonial, 2½ baths, formal dining rm, living rm, beautifully landscaped, very reasonably priced. 928-3657.

### For Rent

RIDGE - Unfurn house, 1 bedrm, eat-in-kitchen, im-med occupancy. \$225/mo. 588-5221 after 6.

VT CHALET - Fall foliage, Stratton art festival, tennis, golf, hiking, canoeing, fully equipped w/stone fireplace. 757-5599.

MILLER PLACE - Furn 3 bedrm house, 2 baths, fireplace, all appl, wooded 1 acre, screened porch, garage, Oct/Nov '76-July '77. \$350/month + util, no pets, couple preferred. Ext. 3821, 473-6624.

E MORICHES - Small 2 bedrm house on waterfront acre, couple preferred. \$250/mo + util. 878-4592 after 6.

S JAMESPORT - 3 bedrm house, near beach, couples preferred, no pets. \$195/mo + util. Walt Palais, Ext. 2907, 698-0576.

PUERTO RICO - Shorefront penthouse, 1 hr from San Juan, sleeps 6, 2 bedrm, 2 baths, fully equipped, take advantage of off-season rates. Ext. 3482.

SOUND BEACH - House to share, rent about \$100/mo + util. Joel, Ext. 2045, 744-6467.

### Wanted

DESK - For students, wood, good cond, reasonable. Ext. 3619, 286-0257.

HEARING AID USERS - To form club to buy batteries wholesale and exchange information. George Hrabak, Ext. 3515.

HOME - For gray striped tiger cat, male, 18 mos, altered, all shots, friendly, good w/children & mice. Olness, Ext. 4570, 751-2655.

MOTOR - Sick '71 Chevy needs motor, reasonable. Cathy, Ext. 2456/2457, 732-6262 after 5.

MICROSCOPE - Working model for 12 yr old, reasonable or rent yours for 3 months. Bill Sanchez, Ext. 3354, 732-5197.

GOOD HOME - For 1 yr old female German shepherd, has all shots, good for children, not too big. George, Ext. 3084.

BAND SAW - 8-10" & wood lathe. 475-0037.

GIRL SCOUT UNIFORM - Size 10 or 12, Girl Scout Book. Call Joan, 744-3919 or Jack, Ext. 4447.

HOME - For young, neutered long haired orange & white male cat. Mary Dohrman, 473-2614.

INFO - Who owns gray Packard in 475 parking lot, any info, please notify Judy, Ext. 2064.

CROSS COUNTRY SKIS - For boy, 10-12 yrs old. John, Ext. 2039.

SEAT - Front, 54" wide, to fit '63 Chevy II, good cond, will adopt from later model car. George Hrabak, Ext. 3515.

TRUMPET - For beginner, reasonable. 589-4363.