



Sixth Annual SNEAP Conference Ends

The Sixth Annual Symposium of North-Eastern Accelerator Personnel was held at Brookhaven last week from September 12 through September 14. All sessions were held in the Physics seminar room, and were attended by delegates from Europe as well as those from the United States and Canada.

SNEAP stands for Symposium of North-Eastern Accelerator Personnel. It is an organization of people interested in the operation, design, and development of electrostatic particle accelerators. This organization was formed at a discussion meeting of the Van de Graaff accelerator operations groups from Chalk River, University of Montreal, and McMaster University in April 1968. Annual meetings have since been held at McMaster, Chalk River, Montreal, Tallahassee, and this year, at Brookhaven.

The purpose of these meetings is the exchange of information and discussion of problems related to the operation and development of electrostatic accelerators and auxiliary equipment. It was felt that often problems solved in one laboratory occurred again in another laboratory and much time and effort was wasted by people solving the same problems again. Getting together annually and discussing these problems and their solutions saves much time and effort. At the same time personal contacts are established which help the continuous exchange of information between meetings and further the cooperation between laboratories. Last, but not least, new ideas are discussed, stimulated, and developed during these meetings.

Since its inception SNEAP has grown considerably. It has, in fact, outgrown its original name. This year at Brookhaven we had nine local and 58 visiting participants from places as far south as Florida and as far east as England, France, Germany, and even Rumania. Of course, the "founding fathers" from Canada were here in force and many U.S. laboratories and several companies were represented as well. Nothing was done officially to change the name of the organization, but during coffee breaks some suggestions were heard on how to update the title without changing the acronym, SNEAP. Symposium of Northamerican and European Accelerator Personnel was one of the more conservative and appropriate suggestions. Other less conventional and more controversial ideas as, for instance, "Some No-good Experts in Accelerator



Chairman Peter Thieberger of Physics, (left) discusses conference proceedings with D.A.S. Walker of Chalk River. Thieberger is Associate Group Leader in charge of operations, Tandem Van de Graaff.

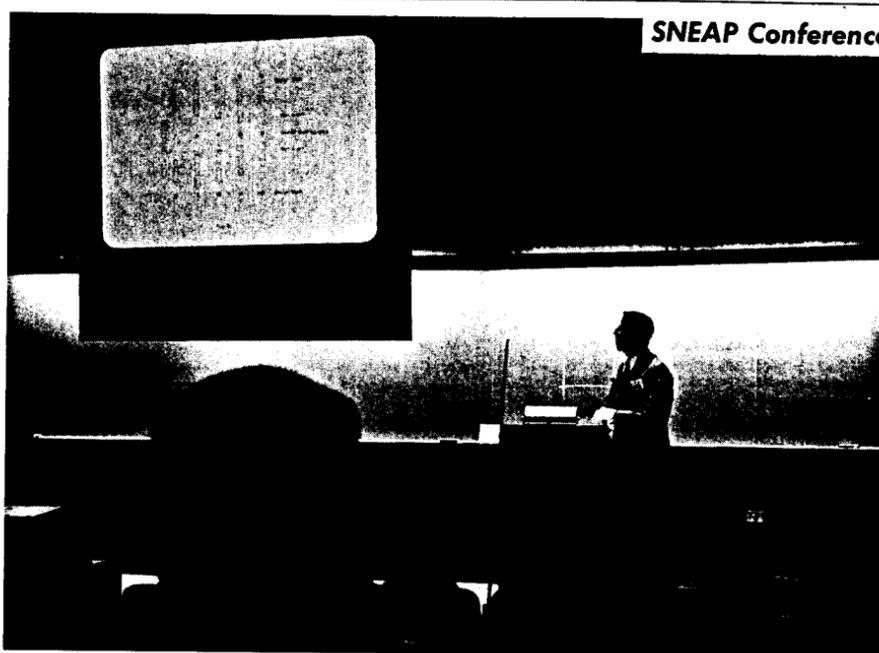
Physics" didn't prosper either for obvious reasons.

The wishes for a successful and pleasant meeting expressed by Dr. George Vineyard during his welcoming address were fulfilled. Everybody seemed to enjoy the meeting and lots of useful information was exchanged - during the talks, and at discussions during sessions, coffee breaks, at lunch, or while drinking beer at the Center.

Tours of the BNL Tandem Van de Graaff Facility were organized as well as visits to the Tandem Van de Graaff Laboratory at Stony Brook.

Among the talks given during the sessions, there were three by members of the BNL Tandem Van de Graaff operations group; Robert Lindgren spoke about the recent upgrading of one of our machines; Mike McKeown about new systems installed in the high voltage terminals; and Hans Abendroth about the use of a small computer as a machine operator aid. Much interest was generated by these talks and Hans Abendroth even got several requests for copies of his program.

The planning and coordination of this meeting was done by Peter Thieberger (Physics) with efficient and enthusiastic collaboration of many other BNL people, both before and during the meeting. Virginia Sayre, together with Dorothy Schroeder and Alf Christoffersen of the Public Affairs Office, helped with the initial planning, preparation and mailing of an-



John Broadhurst, University of Minnesota, gives a paper on the "preliminary design of terminal charge state separators using offset accelerating tubes" at the sixth session of the SNEAP Conference.

nouncements and registration forms, with the coordination of housing, transportation, banquet, and conference finances. Virginia Sayre and Dorothy Schroeder were at the registration desk on Tuesday evening, together with Gisella Murphy from the Housing Office. Toni Fridae from Physics was at the conference desk during the meetings and helped everybody with problems ranging from lost luggage to on-site transportation, to finding lists of participants, etc. Toni, together with Pat Valli, who helped with most of the correspondence, will have the arduous task of transcribing the tapes for the conference proceedings. Jack Craig, with the help of Anthony Torre, both from Instrumentation, were in charge of the electronic equipment for amplifying and tape recording. They expertly solved the difficult problem of capturing on tape even the slightest and softest remarks and comments from the audience.

Another great help for preparing the proceedings was given by Robert Walton and his crew at Photography. They, on very short notice, made negatives of many slides. The slides could thus be returned to the speakers, and this was the simplest and easiest way to obtain the figures for the proceedings. Helen Streeter took care of the Seminar Room reservation and coordinated the women-power for slide showing and for additional secretarial help needed during the conference. Cora Feliciano of Physics showed most of the slides and controlled

the lights with an efficiency that was noticed and admired by everybody.

Robert Lindgren and the operations crew of the Tandem, as well as Dominick DeGuiseppe and others, saw to it that the facility looked its best. Some of them, as well as Irving Feigenbaum, George Hummer and Bernie Comfort, helped guiding tours, answering questions, and occasionally acting as drivers. Fred VanderVoort, with the help of Patrick Glynn, worried about projection equipment, coffee for our coffee breaks, etc. The preparations for the conference dinner were supervised by Henry Boyd.

Chairman Peter Thieberger wishes to express his thanks for the excellent team work of many BNL people from several different groups, who proved once more that Brookhaven is a great place to have meetings like this one.

Monarch Butterflies Seen on Long Island

The Monarch Butterfly is the most common species in the milkweed butterfly group. It is a reddish-brown butterfly with black veins in the wings. Markings on the wings include a black marginal band with two rows of small white spots.

The Monarch is one of the few butterflies that migrate: large numbers migrate South in the fall, and the species reappear in the North the following spring. The longest flight known for an adult monarch (based on a tagged individual) is over 1800 miles, from Ontario to Mexico. The butterflies that migrate South in the fall over-winter in the South, and usually start back North the following spring. They may reproduce in their wintering grounds or after a short northward flight in the spring. The butterflies that arrive in the Northern part of the country in the early summer are not the same individuals that left the preceding fall, but are the offspring of the individuals that reproduced in the wintering grounds or en-route North.

Many individuals have reported large numbers of Monarch Butterflies in different locations around Long Island. These butterflies are either resting or congregating for their long journey; much the same as migrating birds.

The adults are "protected" by distasteful body fluids derived from the larval stage feeding of milkweed plants and are seldom attacked by predators. The insect feeds solely on the milkweed and is not a crop pest or a food supply for wild life. It is, of course, another of nature's wonders and provides immeasurable aesthetic beauty to our environment.

BAFFA Autumnfest

BAFFA's first get-together of the new season is The Autumnfest, a cheese and wine party at the home of Mr. and Mrs. Frank Rivers, 47 East Lane, Bayport. All old and new members are cordially invited the evening of Saturday, September 22, at 8 p.m. for the evening which will include traditional German music. For reservations call 363-2395.

Leading Clergymen Visit



An ecumenical tour of Brookhaven National Laboratory was made by four members of the clergy from Long Island on Friday, September 14. After a briefing by Associate Director Vincent R. O'Leary, the group was guided by Alf Christoffersen on a tour of the Lab that included the Medical Department and the High Flux Beam Reactor. Left to right are: Rev. Herbert Thompson, Jr., Rector of the Christ Church, Bellport; Rt. Rev.

Jonathan Sherman, Episcopal Bishop of Long Island; Bishop John R. McGann, Auxiliary Bishop and Vicar General of the Diocese of Rockville Centre; Rabbi Nathaniel Steinberg, Suffolk County Board of Rabbis; Assistant Director R.C. Anderson; Associate Director Vincent R. O'Leary; and Alf Christoffersen.

—Photo by Humphrey

Visitors' Days Coming



Each year Visitors' Days attract thousands of people to Brookhaven to learn about the research work that is done here. This year Visitors' Days will be held on October 27 and November 3. Tickets will not be necessary for the General Public Visitors' Day on October 27.

Goldhabers Speak At Munich Meeting

Maurice Goldhaber attended the International Conference on Nuclear Physics at Munich and the 11th Aix-en-Provence International Conference on Elementary Particles. At the Munich Conference he gave the introductory talk on "Trends in Nuclear Physics - What Can We Learn from High Energy Interactions?" At the Aix-en-Provence Conference he talked on "Evidence for a 2-Δ (1236) Component of the Deuteron Ground State."

Gertrude S. Goldhaber talked at Munich on "Phase Transitions" in Ground State Bands of Near-Spherical and Spherical Palladium Nuclei.

AUI Scholarships

Applications for the 1974 AUI Trustee Scholarships are now available in the Office of Scientific Personnel.

Up to ten scholarships will be awarded to children of regular employees of Brookhaven National Laboratory. In addition, two Affirmative Action Scholarships will be awarded to children of minority employees of BNL, NRAO and AUI.

Each scholarship will be in the amount of \$900 per year for up to four years and will be available to students entering an accredited college or university in the United States. The deadline for filing applications is November 16, 1973.

As You May Know

Food costs have increased significantly over the past several months. This affects all buyers of food including the Schraff's Division of SAGA which operates the BNL Cafeteria. SAGA applied for and received authority from the Cost of Living Council to raise prices on or after September 15th, to offset increased costs of food and labor.

Monday, September 24th there will be a general increase in menu pricing at the Cafeteria. It may be some consolation to customers to know that the prices will not increase profits; rather losses will be reduced.



Dr. Patrick Bradley-Moore makes a point about nuclear medicine during a tour of the Medical Department by a group of leading clergymen.

Serpent's Teeth To be Presented On September 24

The first presentation of the Theatre Group will be Monday, Sept. 24 in Berkner Hall at 8:30 p.m. The program, entitled "Serpent's Teeth" will include excerpts from:

The Subject was Roses; Frank Gilroy Scenes from American Life; A.R. Gurney Enter a Free Man; Tom Stoppard Effect of Gamma-rays on Man-in-the-Moon Marigolds; Paul Zindel I Never Sang for My Father; R. Anderson

Members of the cast will include: Graham Campbell, Pat Campbell, Pat Towey, Heather Williams, Barbara Jahnke, Bob Marr, Julie Peierls, Richard Perry, Mike Losquadro, Stan Lowell. Ron Peierls is director of the program.

Employees and guests are welcome.

Nursery School Registration

There are still a few openings in the Nursery School for the 1973-74 school year. The School offers three- and four-year old children a variety of opportunities in social activities, art, dramatic play, music, outdoor activities and experiences that build readiness for work in elementary school. Classes are held in the Recreation Building in the Apartment Area. Professional teachers are in charge of all classes.

There are two sessions of the school - one meets on Monday, Wednesday and Friday and the other meets on Tuesday and Thursday. Within each session there is a three- and four-year old class. Classes begin at 8:30 a.m. so that children can be dropped off by their parents on their way to work. The school day ends at 11:30 a.m.

The School is a non-profit, self supporting, cooperative BERA activity operated for the benefit of pre-school children of BNL employees. The parents of the students contribute some of their time to the School's operation so an excellent program is provided with minimal tuition fees.

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

Two Dates Set For BNL Visitors' Days

The Annual Visitors' Days at Brookhaven National Laboratory will be held this year on Saturday, October 27 for the general public, and on the following Saturday, November 3, for High School Students.

Tickets, which are necessary only for High School Visitors' Day, are free, and can be obtained by calling 516-345-3327, or writing to Visitors' Services, Brookhaven National Laboratory, Upton, N.Y. 11973. Tickets are not necessary for the General Public Visitors' Day on October 27.

As in past years, ticket requests and general information about the event will be mailed to all high schools who have visited the Lab in the past.

The main entrance to Brookhaven National Laboratory is on William Floyd Parkway, about midway between the Long Island Expressway and Jericho Turnpike (Route 25). The gates will open at 9 a.m. and remain open until 2 p.m. The exhibits will remain open until 4 p.m. There is plenty of free parking available.

Visitors will check in at Berkner Hall, where food and refreshments will be available, and then proceed at their own pace through the many exhibits. Free buses will run at regular intervals around the site to enable visitors to view exhibits in the research areas.

Included in this year's exhibits are:

Chemistry Building - Laboratories and an exhibit of lunar samples.

Exhibit Hall - Mathematics exhibits including computer terminals which allow visitors to "talk" to a computer.

Gymnasium - Medical, Biology, Health Physics, Instrumentation, and Meteorology, as well as an exhibit by the Lab's amateur radio club.

At the Gymnasium, visitors will board buses for exhibits in the outlying areas, which include:

Graphite Research Reactor - The first reactor designed and built for peacetime research, this reactor has been de-fueled, thus permitting visitors to see it up close. Remote control mechanical "hands" and solid state physics exhibits will also be located here.

Tandem Van de Graaff Accelerator - The only facility in the world in which two of the largest Van de Graaffs made are installed end to end. Visitors will be able to view the inside of the accelerators and see nuclear physics demonstrations and exhibits.

Alternating Gradient Synchrotron - Demonstrations and exhibits on particle beams, magnets, models of accelerators, and other high energy physics exhibits.

80-Inch Bubble Chamber - A research tool that uses liquid hydrogen to detect and photograph high energy particles generated in the 33-billion-volt AGS.

At a recent meeting of the Visitors' Day Committee, many Departments reported that they are already underway in preparing their displays. Because tickets will not be necessary for admission to the General Public Visitors' Day this year, no announcement will be sent to employees other than what appears in the *Bulletin*. Last year a total of 8400 people came on the two Visitors' Days.

Arrivals & Departures

Arrivals

George J. Fischer App. Science
Robert Jeffries Accelerator
Francis J. Lepera Physics
David Mukamel Physics
Walter N. Schreiner Physics
Iuliu Stumer Physics

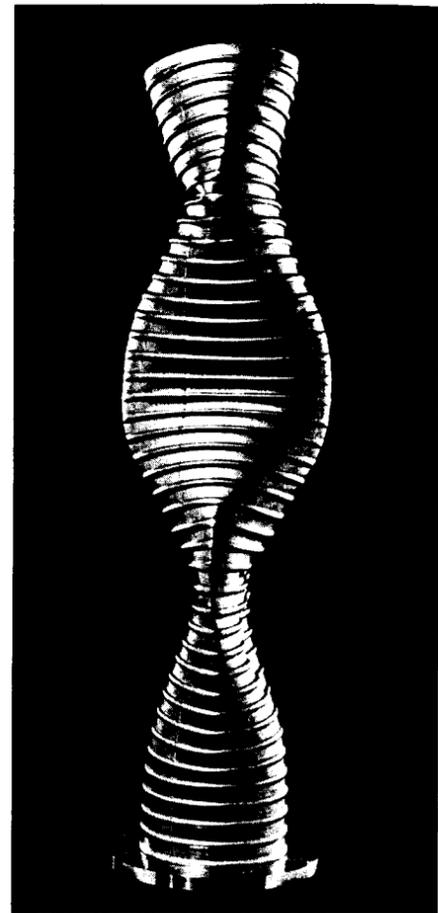
Departures

Jerry A. Rapp Biology
Martin J. Schneider Physics
Charles S. Tierney Plant Engr.
Sandra A. White App. Math.

In Memoriam

Perry Fletcher of the Plant Engineering Division who had been employed at the Laboratory since July 19, 1948 died on September 11, 1973.

Unintended Sculpture



A titanium cylinder supplied by a French firm collapsed under tests at the AGS and provided this provocative sculpture. Could the cylinder have been designed by Dior?

Cooking Exchange

Jane Love

The first meeting of the Cooking Exchange is September 26, at the Recreation Building, from 12:30 to 2:00. The price is 75¢, with a charge of 25¢ for each child going to the baby-sitter.

We are pleased to begin the year with an excellent program of Chinese cooking of the Szechuan and Hunan schools. Jacqueline Newman, a faculty member of Queens College, who teaches advanced courses in Chinese cooking, will demonstrate. Mrs. Newman is always informative, is always a real treat - and she also cooks well. You be there!

The schedule for the year:
September 26 - The absolutely delicious taste of good Chinese cooking.
October 10 - You can - can
October 24 - 4 for \$2.00
November 7 - How to puff - puff pastry
November 21 - Southern Thanksgiving, you all
December 12 - Christmas Party
January - Soups - Stews
February - Pasta - A handful of beans
March - An honest loaf - Gift from the sea
April - Firsts - Sauces
May - Men - Salads
June - International Dinner

For additional information you can call: Jane Love, 286-1136; Lee Schwender, 744-5422; Ruth Dimmler, 751-6342; Terri Pittenger, 286-9471.

Mark the date on your calendar and come. You are the very one we've been missing!

CREF Unit Values

January	\$48.27	February	\$50.49
March	51.36	April	51.80
May	53.74	June	51.80
July	51.15	August	51.95
September	50.98	October	50.80
November	52.53	December	53.25
1973			
January	\$50.36	February	\$47.11
March	46.44	April	43.69
May	42.06	June	41.40
July	44.80		
		August	\$44.06

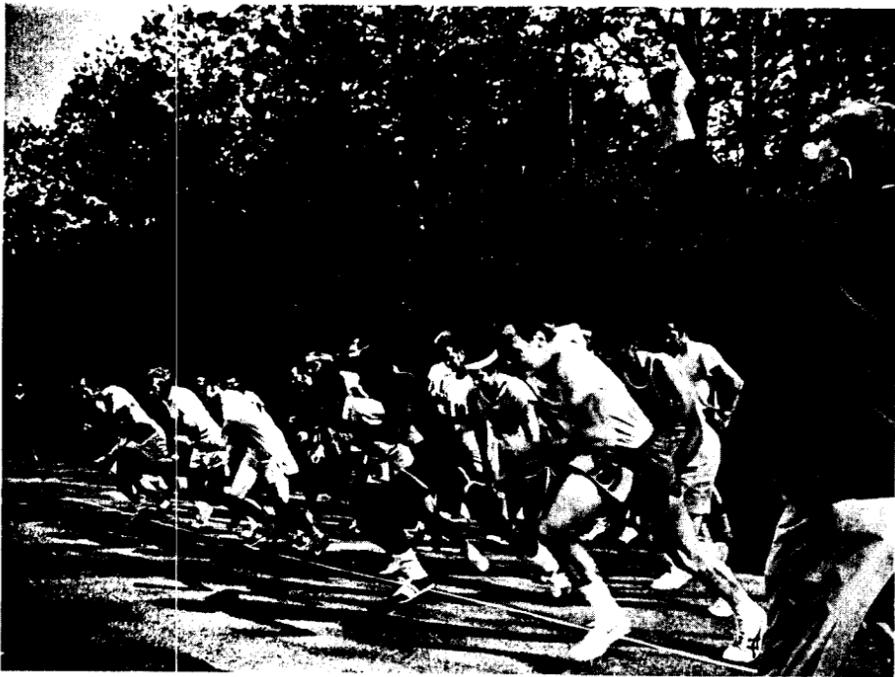
BROOKHAVEN BULLETIN

Published Weekly for the Employees of Brookhaven National Laboratory

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Ten-Mile Run



Ernie Warburton of Physics led all the way in the Spring Marathon at BNL. The next marathon will be held on Friday, October 26. Watch the Bulletin for details about entry and prizes.

Marathon Time Again

Friday, October 26, has been set for the running of the Third Perimeter Marathon at Brookhaven. This semi-annual event was held first in the Fall of 1972, and won by Lawrence Farrell, son of an employee of the Accelerator Department.

The second perimeter run was held on June 1, 1973, and saw Ernie Warburton of Physics win over a field of 22 runners, all employees of BNL.

The race committee for this coming event has announced an entry fee of \$2.00 for each runner to defray costs of purchasing trophies. As promised during the Spring event, the third marathon will be open to employees (male and female) and guests of employees (male and female).

In view of requests by bike riders to participate in some similar event, the committee is presently considering a parallel race for bikers run over the same course, and starting a few minutes before the foot sloggers begin. In order to formulate plans for this event, it is necessary that all peddlers who are interested express their desire to participate by sending their name and extension number to the *Bulletin*. If enough interest is shown, a bike race committee will be formed to get such an event in motion.

As soon as final dates and times are arranged, they will be published in the *Bulletin* along with instructions about entry fees and forms. The *Bulletin* will publish the results of the request for information about the bike event in next week's issue.

Interest in amateur running and biking events has spread to the West Coast, as evidenced by reports from SLAC where a noontime marathon is run annually.

The SLAC event is billed as a "long distance run," even though the course is only 3.8 miles long. The bike race at SLAC will be twice around the running course, for a total of 7.6 miles. During the running of the two events, SLAC has provided a band to entertain the spectators.

IBEW Meets September 27

Local 2230 IBEW will hold its regular monthly meeting on September 27, 1973, at 8 p.m. in the K of C Hall, Railroad Avenue, Patchogue. There will also be an afternoon meeting for shift workers at 2 p.m. in the Union office at 31 Oak Street, Patchogue. On the agenda will be regular business, committee reports, and the President's report.

Selected Reading

- New Sci. 59, September 6, 1973
Polymath extraordinary. R. Malik talks to R. Bellman. 558-61
- Nature 244, August 31, 1973
Mellanby on the decline of science. 533
- Sci. Amer. 229, September 1973
Life and death medicine: Introducing an entire issue on the role of medicine in the life of modern man. K.L. White. 22-33
- Sci. Gov. Rep. 3, September 1, 1973
Grant Swinger sees hope in energy crisis. 1-2
- Science 181, September 7, 1973
The future of the Americas. S.M. Linowitz. 916-20
- Biomedical research (II): Will the "wars" ever get started? B. J. Culliton. 921-5

Stony Brook Events

A performance of classical mime and temple dances of India, and an art exhibit highlight this week's events open to the public at the State University of New York at Stony Brook. Unless otherwise noted, the events are open to the general public without charge.

Theatre

Classical Mime and Temple Dances, traditional entertainment of India, will be illustrated in a lecture-demonstration on Monday, September 24, at 5:30 p.m. in the Calderone Theatre, Building B on the South Campus.

Art

An exhibit of paintings by Irene Moss and soft sculpture by Carolyn Mazzello will be held in the Stony Brook Union Art Gallery, September 24 thru October 16, Monday thru Friday, from 9 a.m. to 5 p.m.

Lectures

Professors Arnold Strassenberg and Lester Paldy of the Physics Department will lecture on Mondays and Wednesdays from 5:30 to 6:45 in Room 128 of the Graduate Chemistry building on "The Science Establishment in the United States." The lecture will include a study of the organizations and institutions, such as Congressional Committees, national laboratories and industry, that shape and direct American science.

On Tuesdays through the fall semester, Professor of English Kofi Awoonor will hold a weekly lecture on "Third World Literature" from 7:00 to 8:15 p.m. in Room 102 of the Lecture Center. He will examine selected great works of contemporary African, Asian, and Latin American fiction with a view to discovering the unique historical and cultural experiences of life which they provide.

Dr. Sheldon Ackley will discuss "The Philosophy of Law" in a weekly lecture on Tuesdays and Thursdays from 8:30 to 9:45 p.m. in Room 258 of the Social Sciences building. He will explore the relationship of law with philosophical and social ideas such as freedom, rights, morality, welfare, property and equality.

"Darwinism: An Intellectual Revolution" will be the topic of Professor Peter Bretsky's weekly lecture held on Tuesdays and Thursdays from 5:30 to 6:45 p.m. in Room 101 of the Lecture Center. The material will study the concept of natural selection including its effect on science, theology, and the economy of Europe and America in the latter half of the 19th century.

On Wednesdays, Dr. Forrest Dill of the Sociology Department will discuss "Contemporary American Society" from 7:00 to 8:15 p.m. in Room 102 of the Lecture Center. The lectures will embody a sociological analysis and description of salient issues in American social life.

Dr. Robert Schneider will lecture on Thursdays from 7:00 to 8:15 p.m. in Room 116 of the Lecture Hall in the Chemistry Building, on "Chemistry in Human Culture." He will focus on the impact of chemistry on the developing culture of man.

Islander Hockey Team Home Schedule

- October
 - 13 Philadelphia
 - 16 Los Angeles
 - 20 Buffalo
 - 25 Minnesota
 - 27 N.Y. Rangers
- November
 - 1 Toronto
 - 3 Boston
 - 20 Toronto
 - 22 Detroit
 - 27 Atlanta
- December
 - 1 Philadelphia
 - 4 St. Louis
 - 6 Montreal
 - 11 California
 - 15 Chicago
 - 18 Vancouver
 - 23 Montreal
- January
 - 3 Vancouver
 - 5 Boston
 - 8 Los Angeles
 - 15 Atlanta
 - 19 Buffalo
 - 22 California
 - 26 Boston
- February
 - 5 Minnesota
 - 9 Pittsburgh
 - 12 Atlanta
 - 16 Chicago
 - 19 Montreal
 - 26 Vancouver
 - 28 Toronto
- March
 - 5 Pittsburgh
 - 9 Detroit
 - 12 Philadelphia
 - 16 N.Y. Rangers
 - 19 St. Louis
 - 23 Buffalo
- April
 - 2 Pittsburgh
 - 6 Minnesota

Bowling News

Grace Fales

Green League

The 1973-74 season is underway. For many bowlers, this coming season will be their best for average and high individual scores. The interest, anticipation and talent shown by this year's bowlers will be the key to the most competitive and enjoyable season of BNL bowling. Congratulations to G. Guydish for his 188/263/618 scratch/714 series, earning his Club Awards. Other 200's of the night were rolled by R. Taylor 205, M. Bull 210, and R. Jones 200/203.

Red League

After much ado about the mystery of the missing bowling ball by a member of the Charlie Brown's, the Red League got under way. Highs for the night were J. Eriksen 232, J. Petro 209, W. Reams 211, R. Murgatroyd 202, J. Disparti 212, P. Scesny 191/233/192/616 scratch and C. Buzzee 224/193/214/631 scratch series, both winning their Club Awards. (Hey Vinnie - are you sure you took the right bowling bowl home last week?)

Pink League

Most of the gals got off to a slow start last week, with the Fiscal Assets the only team taking 7 points. The only bowlers to zero in for at least 1 game were Betty Jellett 182, Audrey Blake 162/172, Marge Stoeckel 168/182, and Grace Fales 167. While there weren't too many high scores, what was all that scintillating conversation on lanes 17/18?

Black and Blue League

On Wednesday, September 12th, BNL's second most popular indoor sport, mixed league bowling, got underway. Again this year we have a 10-team league; in addition we have initiated a league substitute pool. If anybody is interested in jumping into the pool and joining the fun, call Lew Jacobson on extension 2462. Gene Fales took high honors for the night with 218/233/604 scratch/697 gross series, and only his waitress knows how many pitchers of beer. Gene becomes the first league member to win his 600 & 678 Club Awards. Congratulations. Other highs for the night were Mary Austin 185, Marge Nekerman 178/170/499, Charlie Tomesch 207, Bob Rand 202, Ron Weider 200, and Lew Jacobson 200.

Camera Club

The Camera Club will meet on Tuesday, September 25, at 8:00 p.m. in the Recreation Building.

Officers will be elected, and plans will be made for the program for the coming year.

Prospective members are cordially invited, or, if you wish to join and can't come to the meeting call George Cole at extension 3987.

EMERGENCY PHONE NUMBERS

Medical **2222**

Fire **3333**

Police **4444**

Charles Rosen Opens BNL Concert Series

The 1973-74 BNL concert series will begin with a recital by one of today's outstanding pianists, Charles Rosen. The concert will be held on October 2, 1973 at 8:30 p.m. in Berkner Hall.

Although Charles Rosen's pianism is today a matter of international acclaim, music is for him but one of many pursuits. All his works exhibit an enthusiasm and intellectual curiosity which are the hallmarks of genius. Rosen has been acclaimed equally for his many recordings (including the complete late keyboard works of Bach and the late Beethoven Sonatas), and for his book, *The Classical Style - Haydn, Mozart, Beethoven*. He has also been invited recently by Pierre Boulez to record his complete piano works.



Charles Rosen was born in New York; he left the Juilliard School at age eleven to study with Moritz Rosenthal, one of Liszt's famous pupils. On occasion Rosen has played at the State University of New York at Stony Brook, where he has been teaching one semester a year for some time.

While at Brookhaven, Rosen will play Brahms, Paganini Variations, Beethoven's Sonata op. 109, and Schumann's Davidsbündlertänze.

The concert is open to BNL employees, their families and friends, and the general public. The new price schedule for concerts this season is: single admission - \$3.50; block of 5 or more tickets, good at any concert, purchased on or before October 2, 1973 - \$2.50 each; full-time students (with ID) - \$1.75; senior citizens (65+) - \$1.75; under 18 years old - free.

Ticket blocks may be purchased from BERA at the Cafeteria; from A. Aronson, DAS, Building 130; or at the first concert. Single admissions are always available at the door.

BERA Concert Series

During the forthcoming season BERA is happy to present the following series of concerts:

- Tuesday, October 2**
Charles Rosen (piano)
- Wednesday, December 5**
Kenneth Cooper (harpsichord)
- Wednesday, January 16**
Eastman Brass Quintet
- Wednesday, February 13**
Hiroko Yajima (violin)
- Wednesday, April 3**
Warsaw String Quartet

Open Letter . . .

Dear Hockey Fans:
The BERA Board has gone out on a limb again this year by purchasing four season tickets for the Islander hockey games. If there is not a better response from the employees this year, I do not feel the Board will get Islander tickets in the future. I personally feel the location of the seats is excellent and convenient.

The tickets will go on sale on Wednesday, September 26, 1973, at 7:30 a.m. at the BERA Sales & Services Office in Berkner Hall. There will be only one restriction on the sale of tickets; one person cannot purchase tickets for both games against the Rangers.

I would like to say again that if the employees don't show enough interest, this may be the last year the Lab has great seats for the N.H.L. games. So all you hockey fans please support the program while you have the chance.

Sincerely,
Charles W. Flood, Jr.
President, BERA Board

Classified Advertisements

Placement Notices

Each week, the BROOKHAVEN BULLETIN 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 or others whom they wish to recommend to BNL. 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, please contact Employment Supervisor, extension 2874 or 2882.

ELECTRONICS TECHNICIAN - A.A.S. degree or equivalent experience in computer maintenance and construction work. Accelerator Department.

OFFICE SERVICES ASSISTANT - Staff Services Division.
LAUNDRY OPERATOR A (1) - Plant Engineering. Application deadline: September 27, 1973.

WAREHOUSEMAN (1) - Supply & Materiel. Application deadline: October 1, 1973.

Autos & Auto Supplies

4-8.50x15 TIRES - Plenty of rubber. \$20/all. 732-3338.

63 CHEVY BELAIRE - 4 dr, r/h, ps/pb, running. First \$50 takes. Ext 2476, 751-2149.

65 DODGE DART - New w/w, paint, brakes, 6 cyl, std. \$450. 473-3987.

69 PONTIAC CATALINA - 400 c.i., air, ps/pb, 2 dr htdp, vinyl roof, radio, w/w steel-belted tires. Rudy, Ext. 4393.

68 BUICK SKYLARK - Auto trans, ps, 6 cyl, 4 new tires, excel cond. \$700. 286-8535.

4 TIRES & WHEELS - 6.50x13, 2 snows, 2 reg, fair cond, make offer, any or all. Ext. 3573, 744-6854.

62 STUDEBAKER HAWK - 4 spd, V8, good cond, excel tires, single owner, Studebaker buffs. L. Kopp, Ext. 2265, 289-0567 after 6.

71 HONDA CB-175 - 1500 mi, like new, elec start, windshield, luggage rack, chrome util case, helmet, shift light indicators. \$500. 475-2557.

67 PONTIAC TEMPEST - Custom 2 dr htdp, ps, auto trans, V8, excel cond. \$600. Ext. 3071.

73 BUICK LESABRE - 2 dr custom htdp, air cond, ps/pb, r/h, 11,000 mi, yellow. \$3700. John, 924-3528.

65 DODGE POLARA WAGON - Ps/pb, auto trans, handyman special, but it runs, make offer. John, Ext. 4143.

51 DODGE WAYFARER - 52,000 orig mi. \$225 firm. Martin, Ext. 3725 after 4.

63 WILLYS JEEP WAGON - 4 w/d, good cond. Ken, Ext. 3370, 325-1537 after 6.

2-6 LUG WHEELS FOR CHEVY TRUCK - \$6/pr; 2-8 lug 16" truck wheels for Ford 3/4 ton, \$11/pr; 4 tires, 8.50x15, good tread, \$21.50/all. Ext. 4810.

73 DODGE DART - 9500 mi, manual shift. Asking \$2000. Ext. 4301, 363-6884.

67 VW - 55,000 mi, extra set snows, roof rack, damaged front fender, excel running cond. \$425. 286-1056

66 DODGE CORONET WAGON - V8, auto trans, ps, roof rack, new tires, shocks & batt. Claire, 732-6712.

63 BMW R69S MOTORCYCLE - 33,000 mi, orig owner, w/full fairing. \$400. N. Carrera, Ext. 3170, 744-0037.

65 MUSTANG CONV - 289 CID, 4 spd, orig owner, \$450; 14" Chevy rim, \$2. N. Carrera, Ext. 3170, 744-0037.

14" WHEELS FOR LG PONTIAC - \$5/pr; 5 lug VW wheels, \$5/pr; 12v gen, GM type, \$6; alt Motorola, \$7.50; all good cond. Bob, Ext. 4652/4288, 289-0357.

68 CHEVY CORVAIR - 45,000 mi, good cond. \$500. Ext. 3121.

66 VW BUG - Extra wheels & tires, excel shape. \$600. Paul, Ext. 2476, 751-2149.

CENTER CONSOLE STORAGE COMPARTMENT - W/lock & key, fits all cars w/bckts, blk vinyl covered metal box. \$7.50. B. Espensen, Ext. 3992.

71 GMC STEP VAN - 3500 series, 14' body, excel cond, 25,500 mi. \$3500. 475-8917.

66 TRIUMPH TR4A IRS - Overdrive, roll bar, runs well. \$600 or best offer. Pete, 744-3807.

Boats & Marine Supplies

25' SLOOP - Gaff rig, aux pwr, all new sails, hdwre, lines, decks & hull fiberglass. L. Kopp, Ext. 2265, 878-0640 after 6.

24' SLOOP - Fiberglass over wood, 24 hp inboard, sleeps 4, will demonstrate. Ext. 3380, 286-8544.

1960 LUHR'S LAPSTRAKE SKIFF - Marine Grey 109 eng, w/access, in water. Asking \$1900. 567-4061.

SCORPION - Fiberglass sailboat, excel cond. \$400. 286-0798.

8' DINGHY - \$15; 12' alum boat, \$40; 15' alum boat, \$60. Paul, 744-3807.

Miscellaneous

CENTRAL HEATING FURNACE - W/controls, for bungalow, \$80; 2 dressers & 1 valet, \$60; 3 antique trunks, \$15 ea; 1 snow blower, like new, \$75. 732-3338.

BEDRM SET - Full size bed, excel cond. \$220. Ext. 3527, 878-1751.

HOUSECLEANING - Lawson armchair, needs slip-cover; lg assortment children's bks, games & toys; port-a-crib; crochet set. 286-3406.

CROWN GAS RANGE - 6 top burners, 2 ovens & broilers, used, good cond. Kuper, Ext. 3311.

FILTERED DC RECTIFIER - Input 230 v 3 phase, output 50 v, 50 A, weighs 200 lbs. \$80. Ext. 4058, 286-0436.

BRUNNING CONV WYE LEVEL - Horizontal 15 min Vernier, \$90; K&E builders transit, excel cond, \$140. Ext. 4058, 286-0436.

DEAD WGT TESTER FOR GAUGES - 2500 psi range, brand new, no wghts. \$25. Ext. 4058, 286-0436.

ROTARY STORAGE BIN - Heavy duty, ball bearing. \$20. Ext. 4058, 286-0436.

4 METAL FOLDING CHAIRS - King sized rotisserie-broiler; older Frigidaire refrig, works well; soft bodied doll. 286-0376.

DANISH MOD SOFA - 2 chairs, lt wgt, walnut, excel cond, \$75; chest of drawers, night table, solid, \$25; beautifully finished 3'x4' elliptical writing table, \$17. Jack, Ext. 3626, 727-8930 eves.

SPIRAEA (BRIDAL WREATH) - 4'x6', graceful flowering shrub, move now for spring bloom. \$1.99, 3/\$4.99. You dig? You betcha. Lou, Ext. 2480, 473-8146.

BROILER/TOASTER COMBO - New. \$10. Bob, Ext. 4288.

1 HP DEEP WELL PUMP & TANK - Good cond. \$75 takes both - got city water. B. DiLello, Ext. 2333.

TOASTER/BROILER - Current model, never used. \$25. 286-3742.

1971 COX TENT CAMPER - Perf cond, sleeps 6, table, storage, elec. Bill, Ext. 4641.

SHORT WAVE RCVR - Allied DX150, \$50; prop pitch motor w/xfmr & reverse relay, \$25. Bill, Ext. 4641.

1968 VW CAMPER - Excel cond, new 1971 motor. \$2000. Fred, Ext. 3703, 298-8173 after 6:30.

LAWN MOWER - 21" reel type, self-propelled. Ben, Ext. 2461.

PIPE VISE - \$5; Magnavox b/w TV, needs tube, blonde cab, \$12; 1 dresser w/3 drawers, also valet, 35 yr old antique, \$45/both. Ext. 4810.

SNOW BLOWER - Runs perf, leaving for Florida. Cost \$189, sell for \$90. Ext. 4810.

CRADLE - Hardly used, perf cond. \$20. Ext. 2534, 281-6362 after 6.

ARMSTRONG FLUTE - Like new cond. \$95. 475-4199.

19" B/W TV - Motorola table model, very good. \$50. Ext. 3397, 751-1383.

67 SEARS TENT CAMPER - W/add-a-room, very good. \$300. Al, Ext. 4163.

CREDENZA - Ital fruitwood, new cond, 52" w, 32" h. \$125. S. Marino, Ext. 3475, 281-4371.

EXERCISER - Bicycle type, good cond. \$15. Ext. 3379.

CHILD'S TRICYCLE - Very good cond. \$5. 286-3742.

RALEIGH 3-SPD BIKES - Sturmey-Archer gears, 1 man's, 1 woman's, very good cond. \$37.50. S. Simon, 751-7361 eves.

PHOTOGRAPHIC EQUIPMENT - Developing tanks, Kodak II Color, paper dev unit, misc equipment. 472-0509.

ANTIQUES - 3 pc liv rm set, glassware, other furn; moving-bedrm furn & tables, appliances, dress & drape materials. 472-0509.

BLONDE, BLUE-EYED COMPANIONS - Siamese kittens, 4 Seal point, 7 wks. Olness, Ext. 4581, 751-2655.

SHETLAND RUG SHAMPOOER - \$25; artificial fireplace w/logs, \$45; liv rm mirror, 36"x60", \$50; brown relax-a-lounger, motorized. Bob, 473-3987.

FORMICA DIN SET - W/4 chairs, \$40; crib & matt, \$20. Ext. 3527, 878-1751.

STAUFFER REDUCING MACHINE - Relaxer & posture rest, all parts & papers, Good Housekeeping seal. \$50. 727-1617.

BARGAIN PRICE! - 1949 Stewart Warner console radio, rm for phonograph & records. Anne, 286-3406.

MOVING, MUST SELL - Chairs, bookshelf, stereo, blender, iron, wig, misc kitchen items. 286-1493 eves.

REFRIG - Excel cond, \$65; Singer zig-zag sewing machine, model 328-K, many extras, does embroidery, very good cond, \$80. 542-3100, 878-1751.

66 YW CAMPER - Factory equipped, new brakes & muff, good cond. \$600 or best offer. Spirio, Ext. 4278, 878-2864.

KENMORE WASHING MACHINE - Working cond. \$25. Richard, Ext. 4396.

72 AIRSTREAM TRAILER - 27' Overlander, excel cond, many deluxe optional extras. \$8500. 286-1213 after 5.

FRIDEN CALCULATOR - Model ST10. \$95. W.S. Webster, 286-3647.

TAPE RECORDER - Wollensak model T-1616, high fidelity, reel to reel, w/stereo heads, push-button controls, digital index counter. Costs over \$250; excel cond, w/access, \$75. 475-2557.

2 LWE VI SPKRS - Unfin, w/Pilot pwr amp mod SA-260 & Dynakit control amp mod PAS-2. \$140/all. Alley, Ext. 4847.

ALTO SAX - Excel cond. Cost \$245, sell \$140. Ted, Ext. 4661, LT9-2470.

GIRL'S FIGURE ICE SKATES - 2 pr size 9, used 1 season. \$5/pr. Walt K. 286-0246.

21" REEL LAWNMOWER - Craftsman, heavy duty, very good cond. \$55. Walt K., 286-0246.

17 CU FT REFRIG - Westinghouse frost-free, copper-tone, like new. 744-6362.

GIRL'S COATS - Winter & spring, good cond. 475-6288.

BOY'S BICYCLE - 5 spd Spyder, Sears screamer one. 363-6673.

LG ANTIQUE OAK BUFFET - Beveled mirror back. \$80. 363-6597.

ANTIQUÉ WASH STAND - Dk pine, 1 drawer & 2 bot-tom doors. \$35. 363-6597.

DANISH SOFA - Teak, green uphol, excel cond. \$100. 286-3742.

WALNUT COFFEE TABLE - Very good cond. \$35. 286-3742.

PUPPIES - Part German Shepherd, 3 males, 2 females. \$5. 281-0889.

3 STEEL KITCHEN CABINETS - Need paint, 3/\$10; beautiful end tables w/coffee table, \$60; motorcycle shield, \$2; player piano w/stool, beautiful cond, 60 yrs old, \$700. Ext. 4810.

ANTIQUÉ COAL BUCKET - \$3.50; old clothes boiler antique, \$5; antique folding oak table, \$8; 3 Black Beard treasure chests, very old, need repairs, 3/\$25 firm. Ext. 4810.

ORLON YARN - Beautiful colors, \$2.50/lb., 65¢/4 oz, will deliver to Lab or may be picked up at my home. Ann, Ext. 3143, 732-9384 after 6.

NYON RUG - 8'x9'6" moss green, incl padding, good cond. \$15. Ext. 2497.

BEDS - Daybed w/headboard, girl's, \$20; full size bed w/o headboard, \$20. J. Olson, 289-8629.

WURLITZER ELEC ORGAN - 2 decks, good cond. \$600 firm. 286-1454 after 6.

19" COLOR TV - Panasonic table model, 5 yrs old, good picture. \$195. Ext. 4532, 581-8412.

70 TRAVEL TRAILER - 17' self contained, all util, many extras, immaculate cond. \$2000. 281-5950.

GUITAR - Elec Starlite, sunburst finish, w/strap, 2 pick-ups, 1 tone & vol. \$35. 924-6610 after 5.

42 GAL TANK - All controls, 3 mos old, all fittings, shallow well pump. Take all for \$35. 475-1349.

5 BRAND NEW SOFTBALLS - Still in box, Official Corker. Reg. \$2.19 ea, \$6/all. Nick, Ext. 2534.

HASSELBLAD POLARIZING FILTER - & series 7 adapter. Rich, Ext. 4172.

CRIB & MATT - \$25; portacrib, \$15; high chair, \$5; car seat, \$3; lg bureau w/mirror, \$25; other misc household goods. N. Carrera, 744-0037.

HOTPOINT REFRIG - Self-defrost, \$125; Hoover vacuum cleaner, \$10; IBM typewriter, \$25. N. Carrera, 744-0037.

CLAMMING RAKE - 18 tooth basket plus handle, used 1 season. \$40. 567-4061.

70 COX TENT CAMPER - Sleeps 6, icebox, sink, 14 gal water tank, shelving, storage, table, heater, excel cond. \$700. Willy, Ext. 3012.

POLAROID 100 - 4 film spds, with u/v filter, portrait lens, self timer, flash gun, 1 color pack & flash bulbs, new cond. \$50. C. Spulecki, Ext. 4278.

SEARS SUPER 8 - 6 to 1 zoom lens camera w/Key-stone 401 dual projector w/zoom lens, 2 yrs old. Both for \$200. Bob, Ext. 2456.

BATHRM SINK - White porcelain, very good cond. \$5. M. Greene, Ext. 4484.

HEATHKIT AD-2002 - Quadrophonic matrix decoder, new wired, w/all cables & demo record. Asking \$25. Rich, Ext. 4210.

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

BAYPORT - Lg cape, 2262 sq ft, 4 bedrms, 1 1/2 baths, 2nd full bath avail, 2 car garage, full-high bsmt, corner plot 122'x228', fenced, custom built, many extras. 472-0509.

E. PATCHOGUE - 5 bedrms, 3 baths, liv rm, din rm, fam rm w/stone fireplace, screen porch, 2-car garage, swimming pool, extras. Asking \$58,000. 286-9015.

CHALET - Mt. Sunapee, New Hampshire, 2 bedrms, w/full cellar, on 1 acre, furn, oid hot air heat, 5 yrs old. \$27,500. 289-0524 after 5.

BELLPORT - Cape Cod, 2 yrs old, 4 bedrms, 2 full baths, take over mort, excel cond. 286-3311.

PT JEFF - 5 yr old 14-rm farm ranch, 6 bedrms, 3 baths, liv rm, fireplace, din rm, w/w, central air cond, 3-zone oil heat, 3-car garage, patio. \$62,000. 473-3987.

For Rent

3 BEDRM NEWER HOUSE - Unfurn, no lease?, 10 mi from Lab. \$190/mo. 878-2152.

GARDEN APT - Lg, lovely, 2 bedrms, lakeside, Lake Ronkonkoma, patio, air cond, dishwasher, walk to shopping, 1 yr lease, free gas & heat. \$250/mo. R. Holt, Ext. 4132, 588-1766.

SHOREHAM - 3 bedrms, 1 1/2 baths, garage, fireplace, bsmt, priv beach. \$325/mo. Ext. 4131.

2 BEDRM TOWNHOUSE APT - Central air cond, all appliances, w/w, 5 min from Lab. \$250/mo plus elec. Ext. 4676, 286-2046.

FURN RM - Kitchen privileges. W. Lundgren, Ext. 3800, 585-3794.

Wanted

HOMES - For fluffy kittens, males & females, asstd colors, 7 wks old, ready now. 732-3135.

20" BICYCLE - W/coaster brakes. J. Maddock, Ext. 4688.

DESK - Lg office type, wooden, in good cond. Ext. 3749, 928-6538.

VACUUM CLEANER - W/shag attachment. Janet, Ext. 3379.

TRIMMING - Bushes & trees, reasonable. 286-3742.

OUTBOARD GAS TANK - Dbl hose, 6 gal, pre-1959. O. Medeck, Ext. 2350.

PIANO - For Senior Citizens club. H. Henck, 281-5636.

SM HOUSE OR APT TO RENT - In 3-Village area, furn preferred. Ext. 3767.

UPRIGHT VACUUM CLEANER - Access not necessary, must work on wall-to-wall. Ext. 3655, 281-2002.

ANOTHER GAL WANTED - To share 2-bedrm house, 5 mi from Lab. Ext. 4337, 924-5294 after 6.

Services

GARAGE SALE - Toys, baby, household, yard, etc; Sept 22-23, 171 Estates Lane, Shoreham, 9-4. Carrera, 744-0037.

ART LESSONS - Expert instructions in basic art; Adults, Fri & Sat, 1-3; children, 9-11 a.m. 281-1827 after 6.

TV REPAIRS - Reasonable prices. Pete, Ext. 4434.

BABYSITTING - I will care for your children in my home, very good care given, reasonable. 281-6362 after 6.

SEE LI'S FALL FOLIAGE - From a new point of view, guided canoe trips on The Peconic & Carmens rivers. Bergoffen, 286-8140.

ORGAN LESSONS - Experienced teacher, theory incl, your home or mine. 924-3236.

PROFESSIONAL SEWING & ALTERATIONS - 654-0083.

TREE REMOVAL & CHAIN SAW WORK - Also light hauling, free estimates. Ken, 289-8212 eves.

FISHERMEN - Do you want your catch smoked? Gerd, 744-9411 after 5:30.

PIANO INSTRUCTION - Concert pianist seeks students, unique therapeutic approach. 588-2377.

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

BAY COMMUNITY SCHOOL - Children wanted, ages 3-13, to attend exciting, alternative school in Brkhnv village, now in 4th yr. For info, 286-0889, 286-8026.

TREE WORK - Chain saw work, oak cord wood (order). 727-1329.

PIANO LESSONS - Private or group, also theory & harmony. 924-3303.

PIANO LESSONS - Nort Shore area, now accepting beginner or advanced students. 473-8146 after 6.

TRUCKING & HAULING - \$10/truckload. Paul, 744-3807.

Recreation Building

Tuesday, Wednesday and Thursday
Open from 7:00 p.m. - 10:00 p.m.

Monday, Friday and Weekends
Closed except for specially arranged parties made by the Recreation Office.

Classified Ad Policy

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

1. The Brookhaven Bulletin's classified section may be used only by active and retired Laboratory employees.

2. All items for sale or rent must be the advertiser's property.

3. Ads for material acquired for resale in association with a full or part-time business cannot be accepted.

4. Firearms offered for sale or trade may not be brought on site.

5. Ads not carried because of space restrictions will be held for publication in the next issue.

6. Ads are run only once and must be resubmitted if they are to be repeated.