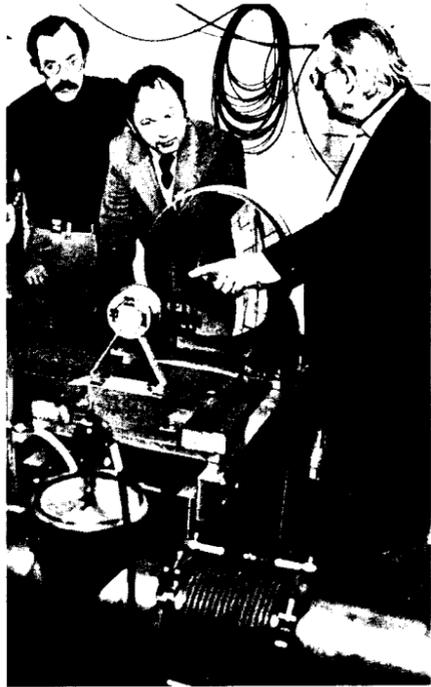


Russian Visitor



A recent visitor to the Laboratory was Professor Valdimir V. Boldyrev (center), Director of the Institute for Fundamental Physical and Chemical Studies on Mineral Processing of the Siberian branch of the Academy of Science, USSR. Until recently, he directed studies at the Chemical Kinetics of Propellants, a section of the Institute mentioned above. He visited the Physical Department and was shown the apparatus for making optical and other measurements on samples during electron irradiation by Karl J. Swyler (left) and Paul W. Levy. This equipment is used by the Solid State Group to study radiation effects in non-metals.

—photo by Reben

Xmas Caroling

Rehearsals for the annual Christmas caroling begin on December 1 at noon in Berkner Hall. The other rehearsals are scheduled on December 5, 8, 13, 15 and 20, same time, same place. And the final performance will be on December 21st.

If you are interested in joining the group, please call Bonnie McNair, Ext. 4512.

Sulfur In The Air

The subject of air pollution is of much concern especially in these energy conscious days. Sulfur is a pollutant of paramount interest and will taken on increased importance if we begin to employ coal or other fuels containing high sulfur.

"The Sulfur You Breathe" will be discussed by Leonard Newman, Department of Energy and Environment, in the 152nd BNL Lecture on Wednesday, December 7, at 8 p.m. in Berkner Hall.

Airborne sulfur comes in two general forms, gaseous and particulate. Newman will examine the origin of each of these forms and their relative importance to the public. His lecture will highlight the BNL studies directed at ascertaining the mechanisms by which sulfur is converted from the gaseous to the particulate form.

"Our laboratory has frequently been that of power plant plumes, our probe that of an extensively outfitted airplane," says Newman. "Plumes provide us with a convenient source of reactants through which we can study the rate of conversion in the real atmosphere and how this conversion is effected by changes in the ambient conditions. Measurements of the chemical form in which the sulfur exists take on an important role which I will describe."

He will also discuss the significance of these findings and its importance to the general level of sulfur pollution.

Newman is Associate Head of the Atmospheric Sciences Division of DEE and is leader of the Analytical and Atmospheric Chemistry Groups. He is chairman of the DOE committee on Observation and Characterization for the Multi-state Atmospheric Power Production Pollution Study. Brookhaven is one of the principal laboratories involved in this important research program.

With An Eye To The Future

One of the byproducts of our society is a mountain of paper and documents generated over many years. From this vast accumulation, what should be saved and what should be thrown away? In practice, who decides and on what basis are the decisions made? A young historian, Allen Needell, is spending ten months at Brookhaven conducting a pilot study that will address itself to these and similar questions. "We are far from ready or able to tell anyone what should be done," Needell cautions. "Our goal is to first find out what kinds of papers are produced in highly specialized institutions like Brookhaven and evaluate these with an eye to the future, keeping in mind the needs of present and future historians."

The project was proposed by the American Institute of Physics' Center for History of Physics in New York and is funded by the National Science Foundation. The study will focus on those aspects of Brookhaven that are related to research in fundamental physics, including the development of the large and sophisticated tools that have characterized so much of this research since the end of World War II.

The AIP Center has been involved for more than 15 years in seeing to the preservation of documents relating to the history of physics. Until now, they have concentrated on prewar and, hence, mostly academic physics; but in recent years, the need to extend this work to postwar, nonacademic institutions has become apparent.

Among historians, almost nothing is known about the patterns of preservation and destruction of scientific papers at various national laboratories and historians have seldom been consulted as to the kinds of documents they might need in their research. The historical importance of some of these documents and the laboratories' responsibility for seeing to their preservation has never been made clear to the scientists, administrators, or other laboratory personnel by the National Archives and Records Service (NARS), or the successive contract-

ing federal agencies. The AIP fears that unless the problem is tackled now, it may soon become impossible to adequately document the histories of these institutions. The first step is for historians to familiarize themselves with the current records management practices at these places and then to offer advice and assistance in the difficult job of appraising documents as to their possible historical value.

Brookhaven was chosen for the pilot project because of its importance in postwar physics, the interest and cooperation of AUI/BNL officials, and the accessibility of the Laboratory to the New York offices of the AIP. Of equal importance is the availability and interest at Brookhaven of a number of persons who were principals in the Laboratory's early development. Dr. Leland Haworth, who was Director of the Laboratory from 1948 to 1961 and a man with a keen eye for history, is serving officially as an AUI consultant for the project.

Needell is also working closely with the Brookhaven Staff Services Division. This group is charged with the responsibility of records management at the Laboratory, including the storage and disposal of records, in compliance with federal guidelines. They must deal with everything from thousands of photographic negatives and magnetic tapes, to scientists' research notebooks, to a sea of purchase orders and cancelled checks. According to the AIP historian, the people currently involved with records management welcome the prospect that a system might be devised that would help them in the identification of important, permanently valuable documents.

Needell did his undergraduate work at Cornell in physics and will receive his Ph.D. degree in the history of physics from Yale this spring. Last year he worked as a pre-doctoral Fellow at the Smithsonian Institution in Washington and was selected during the summer by the Center for History of Physics to carry out the on-site portion of this study. He will be working closely with Joan Warnow, a science archivist,



Allen Needell (left), with the assistance of John Blewett, examines the papers of the late Ken Green in connection with the pilot study of historical papers that he is conducting at Brookhaven.

—photo by Reben

who is Associate Director of the AIP Center and the project's initiator.

Needell says that his current role is largely that of a detective. He will be visiting those various departments and divisions at Brookhaven associated with physics research and will speak to administrators, scientists and secretaries about the way in which records are created and what happens to them. He will be searching for the records of departments or divisions no longer in existence and for the papers of individuals who have moved from place to place within the Laboratory, or who are no longer here.

He asks that individuals who have collections that may be of interest to this study contact him. Similarly, anyone who knows of the location of caches of relevant documents that might not turn up in the division-by-division search of the site, should bring them to his attention. Needell's extension is 3349 and he works out of an of-

(Continued on page 2)



Leonard Newman

—photo by Reben

His undergraduate work was done at the Polytechnic Institute of Brooklyn and he received his Ph.D. degree from the Massachusetts Institute of Technology in 1956. The following year he came to Brookhaven and joined the scientific staff of what was then the Nuclear Engineering Department.

While at Brookhaven, Newman has participated in a wide ranging series of projects, from fundamental studies of the chemistry of actinide elements, through the molten bismuth fuel and liquid sodium reactor programs.

A buffet supper will be served in the Brookhaven Center before the lecture beginning at 6:30 p.m. Reservations should be made in advance by calling Ext. 3541 before 5 p.m. Refreshments will be available in the lobby of Berkner Hall immediately after the lecture.

Samuel Goudsmit Is Honored

Samuel A. Goudsmit, one of Brookhaven's principal physicists for 26 years, received the National Medal of Science from President Carter at Washington ceremonies on November 22. The nation's highest award for scientific or engineering achievement was presented to him "for the major discovery of the electron spin as the source of a new quantum number." Dr. Goudsmit's codiscoverer, George E. Uhlenbeck of Rockefeller University, was also among the recipients of the prestigious medal.

Established by Congress in 1959, the first award was given by President Kennedy in 1962. Since that time, every President has so honored outstanding scientists. The 15 recipients were chosen from among several hundred nominees by the President's Committee on the National Medal of Science. Dr. Gertrude Goldhaber, Physics Department, was appointed to the Committee this year.

In his remarks at the ceremony, President Carter said, "... I would like to say that we want to make sure that the climate for research and development in our country is enhanced, with my own imprimatur of approval and interest, with a broad-scale exhibition of interest on numerous occasions by the Members of Congress and my own Administration, with publicity accruing to those who have achieved notably in the scientific and engineering field, and also in direct budget allocations."

Goudsmit and Uhlenbeck announced their discovery in a letter to the editor in the *Journal Naturwissenschaften* on October 17, 1925. In a colorful article in the June 1976 issue of *Physics Today*, Goudsmit reminisced about the scientific climate in which their discovery was made. By comparison to "the present community of physics [which] represents life in a modern metropolis, exciting and full of frustration and

dangers... we lived in a small village with its little feuds, a Peyton Place without sex," he wrote. Although many thought they had received the Nobel Prize for their work, 'twas not so, said Goudsmit. They did receive the Research Corporation Award in the 1950's and the Max Planck Medal from the German Physical Society in 1965. Jobs for physicists were few and far between in the early days and when, as a result of their discovery, they were offered appointments as lecturers at the University of Michigan in 1926, Goudsmit writes "that was for me a far more significant award than a Nobel Prize."

Goudsmit came to Brookhaven in 1948 after wartime research at the Radiation Laboratory at MIT, and as Chief of a Scientific Intelligence Mission to Europe. During his long tenure in the Physics Department, he served as chairman for eight years and as Deputy Chairman for eight years. Along with his administrative duties and research for Brookhaven, he was also Managing Editor of the *American Physical Society*, Editor of *The Physical Review* and later the *Physical Review Letters*. He left Brookhaven in 1974 and is now a visiting professor at the University of Nevada, Reno.

Memorial Service Dr. George C. Cotzias

Friends and associates of the late Dr. George C. Cotzias are invited to attend a service in his memory on Wednesday, December 14, 1977, at 4:30 p.m. The service will take place in Hoffmann Auditorium, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York City.

BNL History

(Cont'd.)

face (Rm 203) of building 460.

Although Brookhaven is the location of the search for documents in the first stage of the project, the AIP hopes to obtain funding to proceed with other laboratories and other approaches to the records problem. A panel of scientists, historians and other scholars, as well as professional archivists and records managers, is being formed. This panel will serve as an advisory committee for the project and will assist in the preparation of reports and recommendations.

Needell and Warnow realize that they must be realistic in their proposals if these proposals are to have a chance at implementation. The costs of preserving and storing large numbers of documents are great and some decisions must be made. "In some sense we view ourselves as lobbyists for the interests of the present and future generations of historians and for those who would learn from the history of large scale physics research in this era," Needell concluded. Some of the documents he finds during his travels around the site may make the job of writing the history of Brookhaven a great deal easier and the resulting history a great deal more accurate.

French Film To Be Shown

"The Shameless Old Lady" is a film to be presented by *Le Cercle Francais du BNL* at Berkner Hall, on December 8, at 8 p.m. With dialogue in French and English subtitles, this film was made by Rene Allio in 1966. It is an endearing look at a little 81-year-old grandmother who decides late in life to sample all the pleasures of the world denied her during her lifetime. As far back as she can remember, she has sacrificed herself for her children and in later years for her invalid husband. Now that he is gone, she becomes insatiably curious about the world she has never known. To get an idea of the charm of the story, try to imagine her months of joyous freedom. The wonders of a department store are as enchanting as candy to a child. She is positively infatuated with the escalators. And the confectioneries with their ice-cream sundaes! Her children are horrified. Their mother should be content to sit at home and wait for death like other old people! Sylvie, who plays the title role, won the award for Best Actress of the Year from the National Society of Film Critics.

All members of the Brookhaven community and their friends are cordially invited to attend the showing of "The Shameless Old Lady." Those who are not members of *The French Group of BNL* will be asked for a donation of \$2 (\$1 for students).

Hospitality Coffee

A morning coffee will be held in the Brookhaven Center on Tuesday, December 13, from 9:30 to 11:30 a.m.

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

Cafeteria Menu

Week Ending December 9, 1977

Monday, December 5	
Cream of mushroom soup	
Chicken a la king on rice	1.10
Western omelet & fr.fr.	1.25
Hot deli - pastrami	
Tuesday, December 12	
French onion soup	
Chinese pepper steak on rice	1.25
Barbequed spare ribs & black-eyed peas	1.35
Hot deli - sloppy Joe	
Wednesday, December 7	
Split pea soup	
Breaded flounder filet & fr.fr.	1.20
Special	
Spaghetti in meat sauce & garlic bread	
All you can eat	\$1.20 plus tax
Thursday, December 8	
Cream of chicken soup	
Beef hash & 1 veg.	1.15
Veal parmigiana & 1 veg.	1.20
Hot deli - meatballs	
Friday, December 9	
Manhattan clam chowder	
Broiled filet & 1 veg.	1.15
Meatloaf & 1 veg.	1.15
Hot deli - roast beef	



They Represent Almost 4000 Years

One hundred and thirty-three employees celebrated at a luncheon hosted by the Director on November 16. It was an important occasion because all of them were celebrating their 30th anniversary with the Laboratory. Last year, only five people could claim 30 years at Brookhaven. They had arrived in 1946, the year of the Laboratory's inception. The far greater number this year indicated how much the staff had increased by 1947.

—photos by Rosen



Sea Cliff Concert

The Sea Cliff Chamber Players will present the third concert in their series of Saturday night chamber music programs in Berkner Hall at 8 p.m. on December 10. The *Holiday Baroque Fest* will feature guest artist Jack Litten in the aria "Frohe hirten" for tenor, flute and continuo from Bach's "Christmas Oratorio," and Bach's Cantata No. 189 for tenor, flute, oboe, violin and continuo. Mr. Litten is a tenor of international reputation who has appeared as soloist with many major orchestras including the New York Philharmonic under Pierre Boulez.

Other pieces on the program are the Sonata in C minor for oboe, viola and continuo by Telemann, the Bach Sonata in G major for viola da gamba played on the modern viola with harpsicord accompaniment and the Vivaldi Concerto in G minor for flute, oboe, violin, cello and harpsichord.

Tickets are \$5 for adults and \$3.50 for students under 21 years of age. Note the 8 p.m. starting time.

Sweet Adelines Singing Tonight

The Spindrifters Chorus of the Eastern Suffolk Chapter of Sweet Adelines, Inc. will appear at Berkner Hall this evening at 8:30 in a program of Musical Portraits from the year 1890 to the '70's.

Also featured with the chorus will be "The Windjammers," a male quartet from the Whaler's Chorus of S.P.E.B.S.Q.S.A., and "The North Stars" of the Eastern Suffolk Chapter.

Tickets will be sold at the door. Admissions: \$3 adult; \$2 student and senior citizen; \$1 children.

Missing

Biomation Model 8100 Transient Recorder, BNL 81200. Last seen in AGS Operators Lab early October. Any information call E. Raka, Ext. 4727 or J. Connell, Ext. 4634.

Holiday Performance

LISCA, the Long Island Symphonic Choral Association, under the direction of Gregg Smith, will present a holiday tribute to Benjamin Britten on Saturday, December 3, at 8:30 p.m. in the chapel at St. Charles Hospital in Port Jefferson. The program includes: A Boy was Born; the Saint Nicolas Cantata, and A Ceremony of Carols.

Admission is \$4; \$3 for students and persons over 65.

Service Awards



Receiving service awards at the Medical Department recently were (from left) John Elmore (10 years), Rita Straub (25 years) and Robert A. Love M.D. (30 years).

— photo by Reben

Arrivals & Departures

Arrivals

Joseph G. Albergo	Ph. & Gr. Arts
Randolph L. Bowles	Accelerator
Karen A. Alberico	Medical
Gerry M. Bunce	Accelerator
Karl C. Falconer	Accelerator
Kathleen A. Griffin	Biology
Theodore F. Haarked	Reactor
James W. Hagerman	Plant Engrg.
Raymond J. Hartoin	Accelerator
Lewis E. Raymond	Medical
Richard R. Skelaney	Accelerator
Edward B. Smith	Physics
Steven A. Spencer	Biology
Lee M. Walcott	Chemistry

Departures

Kwan M. Annan	Accelerator
Edward J. Davis	Plant Engrg.
Robert W. Dillingham	Instrumentation
Jay N. Doninger	Biology
John F. Duval	Biology
Richard J. Hanney	Applied Math.
Alice A. Kiesling	Medical
Raymond Lopez	Instrumentation
William V. Peterson	Plant Engrg.
James W. Reeves	Accelerator
Joseph C. Stachew	Reactor
Thomas T. Tso	Applied Math.
Katherine A. Van Tassle	Staff Services
Muhammad Yaqub	Biology

Cooking Exchange

Members and their husbands are cordially invited to the annual Cooking Exchange Christmas party, which will be held in the Recreation Building on Thursday, December 15 from 4:30 to 6:30 p.m.

An admission of \$1 per couple and a dish of hors d'oeuvres (enough to serve 10-12 people) will be requested.

Babysitting will be provided in the same building.

Please call Sandra Edwards, 286-9256, or Elaine Lowenstein, 286-2788, to let them know what you will be bringing.

There will be no Cooking Exchange meeting on December 14.

BROOKHAVEN BULLETIN

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BERNICE PETERSEN, Editor
DOUG HUMPHREY, Photo-Journalist
CAROL PETRAITIS, Editorial Assistant

40 Brookhaven Ave., Upton, N.Y. 11973
Telephone (516) 345-2345

CARL R. THIEN, Public Relations Officer

In Memoriam

Warren (Bud) Green died on November 10, 1977 at Brookhaven Memorial Hospital at the age of 58. He was a Nuclear Reactor Operator and had been at the Laboratory since May 5, 1952. He was a resident of Center Moriches and is survived by his wife, Dorothy, and five children.

Letters To The Editor

To The Editor,

Regarding Tune In! #476 published in the *Brookhaven Bulletin* of November 18, the BERA photoservice may provide the highest quality at the highest prices, but is this really service to the majority of Brookhaven's employees? Personally, I would prefer slightly lower consistency at a much lower price. For twenty color prints Beacon photoservice offers very high quality, and two day service, for \$5.75 versus \$8.10 at BERA. I think that those who don't mind the extra \$2.35 wouldn't mind a stop at a camera store either.

Roger C. Young
Bldg. 801

Tune In!

#477 - Question:

On October 26, I killed two cockroaches in the men's locker room. I presented one to the gym attendant and the lifeguards. They proceeded to show me several more by the garbage pail. What can be done about this deplorable condition at the pool area?

Answer:

Next to horseshoe crabs, cockroaches have existed longer in their present form than almost any other living thing. Wherever there are people, there are cockroaches and they are most difficult to eradicate completely. The area in question is sprayed on an average of once every two weeks in an effort to control this pest. You can rest assured we will continue this program.

— Peter Paige,
Personnel

Hospitality Tea



Retiring



Kelsey Robinson, a Driver in the Supply & Materiel Division, will retire today. He has been employed at the Laboratory since March 21, 1947. — Photo by Rosen

BNL Bridge Team

A BNL Bridge Team making its debut in the Long Island Industrial Bridge League (LIIBL) narrowly beat last year's champions, Sperry of Great Neck, in the first round of this year's qualifying rounds. The team, consisting of Barclay Jones (Chemistry) and his wife, Pat, Bill Sampson (Accelerator) and his wife, Joanne, Arnie Dubow and Captain Colin Durston (both DNE), braved a 90-minute journey in a downpour to Sperry's headquarters in Great Neck to win by a margin of 21 to 19 victory points. Of the 24 hands played in the match, BNL won 10, Sperry won 9 and the remaining 5 were tied. The overall score based on International Match Points was 61 for BNL to 57 for Sperry.

NYC Train Trip

The Hospitality Committee is planning a group railroad trip to the city **Tuesday, December 20**. Departure will be at 8:32 a.m. from the Patchogue LIRR station. Round-trip fare for adults is \$2.45, children under six years ride free.

Reserve a ticket by sending your fare through the U.S. mail to P.O. Box 322, Upton, New York 11973, no later than Friday, December 16. Make checks payable to "Brookhaven National Laboratory." Your tickets will be given to you at the train station. Refunds will be made only if cancellations are received at least two days prior to the trip.

Note: Except during the month of January, 1978 and unless otherwise indicated, the trips to New York City are scheduled for the first and third Wednesdays of every month. Your check for the fare must be received by the Friday preceding the trip.

Is It Yours?

A package containing scientific equipment from Spectra-Physics, 1250 West Middlefield Rd., Mt. View, California 94042, was recently received by the Chemistry Department. If it is yours, please contact Phil Davis, Ext. 4311.

Sports News

Runners' Corner

The BNL Roadrunners have accepted a rematch of a 3000-mile challenge race against the runners from Westinghouse. Here's your chance to fight off the winter doldrums and run off all that glorious holiday season food and drink. The goal is for each team to cumulatively run 3000 miles within 3 months. The team with the lowest overall average per mile time will be the winner. In our last race with Westinghouse in spring 1976, we lost with a 7 minute, 29 second per mile average compared to their 7:10. All runners are invited to participate independent of ability. The only ground rules are that each run must be at least 3 miles for men and 2 for women. This challenge begins on December 5. Daily log forms will be available at the gym or reactor locker room or by contacting the race coordinator Jim Guppy, Ext. 2698. Site maps with distances are also available.

To increase the amount and effectiveness of running news of races, results and general interest items, the BNL Roadrunners will begin distributing a newsletter to anyone on-site interested in running. The newsletter will appear at intervals determined by the amount of gossip we have to disseminate. If you are interested in receiving a copy, please send your name and lab address to Bill Thomlinson, Bldg. 510.

Volleyball

Employees' League

Standings (as of 11/23)

Phoenix	10	2	.833
Spikers	11	4	.733
Bumps	7	5	.583
Cool Tools	8	7	.533
Atom Spikers	4	8	.333
Easy Aces	4	8	.333
Biology	1	11	.083

Mixed League (Division A)

Standings (as of 11/28)

Lookin Good	10	2
No Names	10	2
Nads	6	6
Assorted DO-E-nuts	4	8
Le Mufs	4	8
Popovers	2	10

Mixed League (Division B)

Standings (as of 11/28)

Nuts & Bolts	12	0
Oceanography	7	5
Leftovers	6	6
Diamonds	5	7
Cowturkey	4	8
Riffrafs	2	10

Fly Tyers

Thursday, November 17 the BNL Fly Tyers gave an exhibition and instructions on fly tying at a meeting of the Long Island Chapter of "Trout Unlimited." The rapid growth of Trout Unlimited is an indication of the new awareness of the necessity of preserving the quality of our Long Island rivers and a strong voice in the never ending battle against pollution. The BNL Fly Tyers meet every Tuesday evening at 5:30 p.m. Everyone is welcome to join in, whether you have ever tied a fly or not. For information call:

Dick Stoner Ext. 3601
John McCafferty Ext. 2012
Charles Boulton Ext. 4257

Bowling

Pink League

Week of 11/14/77: Marie Brenner won the turkey and she certainly earned it! Not only did she bowl 175/188/181 for a gross series of 658, but in the course of the night she also picked up the 3-7-10 split.

Other high games were: Marge Stoeckel 199, Ellie Adams 168, Pat Oster 166, Colleen Holland 165, Susan Vander Kolk 160, Fran Green 158, and Carol Beckner 158/157.

The Pinsplitters are in first place by 4 points and the only change in the standings is that the Fiscal Assets are in 3rd place and the Lickety Splits are in 5th.

Red League

Week of 11/14/77: the best bowling in the league thus far this year. Maybe we should have more "turkey shoots" during the season. The Freon Loaders destroyed the Got-A-Hit-Ums 11-0, knocking down the most wood for the year (3187) including a 1078 game. F. Stahman (220) had a 588 scratch 681 gross, F. Powers a 675 gross and R. Marlow 647 gross pins.

The Designers buried the Sandbaggers 11-0, knocking down 3171 pins with an 1132 game. A. Pinelli (234) had 567 scratch (660 gross), C. Zavesky (205) 555 scratch (663 gross) and M. Bull 635 gross pins. R. Meier, for the Sandbaggers, had the best night of all (236/201/200) 637 scratch and 712 gross, giving him high scratch for the year and also a free turkey. In the last 9 games, Bob has rolled 7 games over 200.

The 76'ers wiped out the Cosmos 11-0 and knocked down 3019 pins with 4 men. R. Larsen had a 228 and 600 scratch. J. Sheehan had a 207 (545 scratch) 659 gross.

The Bubble Boys also took 11 by downing the Dyno-Mites. The Anachems beat the Sparks 8-2. T. Prach (206-201) 597 scratch and 693 gross had a great night. C. Bachsmith had a 213 and 653 gross. The Old Timers took 8 from the Pick-Ups. Dick Adams had a 208/583 scratch and 679 gross.

Green League

Week of 11/14/77: the Blue Jays still have a hold on first place but could only salvage three points while the Trouble Shooters took eight. For the Trouble Shooters, A. White had a 221. The second place Dyno-Mites got bubbled over by the Bubble Boys who took them for eleven points. The Got-A-Hit-Ums dropped to fourth as they lost eleven to the Freon Loaders, who froze them out with a 3187 gross series. The Old Timers II are on the move again as they swept eleven from the Pinball Wizards. For the Old Timers II, W. Crockett had a 208. The Sparks could only manage three points as did the Pick-Ups. Once again at this time of year we bowled for a turkey. This year the bird went to Bill Crockett for his 587 scratch, 659 gross series.

Black and Blue League

The Black and Blue League is alive and bowling - with six great teams. We have some good games being bowled by the women. Pat Lebitiski, Renee Flack, Rosemary Bhrem, Virginia Walker and Linda Gaffney. The fellas are led by Barney Bhrem, Jeff Gaffney, Nick Parninello, Budd Pollock and turkey winner Bill Lebnitski.

Purple & White League

Week of 11/14/77: the Sea Gulls are in first place with The Jokers in second and The Alley Oops in third.

Dick Murgatroyd had high game for the men with a 212 and also high series 567. Caryl Mac Dougall had high game for the ladies with a 213 and high series with a 525.

Other high games were Jim Petro 210, Bob Jones 205, Freddie Gileta 187, Liz Bull 177, Carolyn Eterno 175.



Tea, Sherry and Fashion were the ingredients of a party sponsored by the BNL Hospitality Committee on November 17. The presentation of women's clothes, from bathing suits to evening dress, were the highlight of

the afternoon. The show was produced by a fabric shop in Huntington and the models were wearing clothes they had made themselves.

—photos by Reben

Classified Advertisements

Placement Notices

The Laboratory's placement policy is to select the best-qualified candidate for an available position, with consideration given to candidates in the following order of priority: (1) present employees within the department, with preference to those within the immediate work group; (2) present employees within the Laboratory as a whole; and (3) outside applicants.

Each week, the Personnel Office lists new personnel placement requisitions. The purpose of these listings is, first, to provide open placement information on all nonscientific staff positions; second, to give employees an opportunity to request consideration for themselves through Personnel; and, finally, for general recruiting purposes. Because of the priority preference policy stated above, each listing does not necessarily represent an opportunity for all candidates. As a guide to readers, the listings are grouped according to the anticipated area of recruitment, as indicated below. Except when operational needs require otherwise, positions will remain open for one week following publication date.

For further information regarding a placement listing, contact the Personnel Placement Supervisor, Ext. 2874 or 2882.

LABORATORY RECRUITMENT: Opportunity for present Laboratory employees.

404. SECRETARY - Excellent secretarial skills required. Department of Energy and Environment.

405. OFFICE SERVICES ASSISTANT II OR III - Good background in general office work, including typing, record keeping, and figure work. Central Shops Division.

406. DATA SERVICES ASSISTANT - With training or experience in data processing and technical report writing. Requires familiarity with programmable calculators. Department of Nuclear Energy.

407. RESEARCH SERVICES ASSISTANT - To perform a variety of laboratory activities. Requires previous experience in microscopic work. Safety and Environmental Protection Division.

408. SHOPS FABRICATION ASSISTANT - Central Shops Division.

409. LABORER - Temporary eight week assignment. Plant Engineering Division.

410. TOOL AND INSTRUMENT MAKER - Central Shops Division.

411. MASTER METAL WORKER - Central Shops Division.

OPEN RECRUITMENT: Opportunity for present Laboratory employees and outside applicants.

412. DEVELOPMENT ENGINEER - MS or PhD in mechanical engineering with experience in stress and computer analysis, equipment design and heat transfer. Department of Energy and Environment.

413. DEVELOPMENT ENGINEER - MS or PhD in chemical engineering with expertise in process economics desirable. Department of Energy and Environment.

414. ELECTRICAL ENGINEER - Experience in high power rf and/or high voltage engineering. Knowledge of servo systems and analog circuitry desirable. National Synchrotron Light Source. Physics Department.

415. ELECTRICAL ENGINEER - Experience in computer control of sophisticated electronic and electrical systems. Requires knowledge of analog and digital techniques and interfacing of computers. National Synchrotron Light Source. Physics Department.

416. ELECTRICAL ENGINEER - To develop sophisticated beam diagnostic and control equipment for electron beam measurements. Experience with rf technique and electron beam handling desirable. National Synchrotron Light Source. Physics Department.

417. ELECTRICAL ENGINEER - Knowledge of mini computer networks, real time operating systems, and communication protocols necessary. Experience with man-machine interfacing and controls application software desirable. National Synchrotron Light Source. Physics Department.

418. ADMINISTRATIVE ENGINEER - BS in engineering or other technical discipline combined with significant training or work experience in program administration. Requires excellent communications skills. Department of Nuclear Energy.

419. BIOLOGY ASSOCIATE - Entry level position requiring BS in biochemistry. Biology Department.

420. TECHNICIAN - AAS or equivalent in electrical technology or engineering science. Some shift work. Particle Detector Division. Accelerator Department.

421. ELECTRONICS TECHNICIAN - Requires AAS or equivalent, experience with NIM bin electronics, and familiarity with minicomputer interface methods. Physics Department.

422. TECHNICIAN - AAS or equivalent in mechanical technology plus related technical work experience. Department of Nuclear Energy.

423. TECHNICIAN - Must have experience in electronics wiring work. Physics Department.

424. EXPERIMENTAL MACHINISTS (4) - Central Shops Division.

425. EXPERIMENTAL METAL WORKER - Central Shops Division.

Autos & Auto Supplies

71 FORD GALAXIE - Auto V8, ps/pb/ac, very good cond, but has some rust. \$450. Rich, 727-7304.

67 MGB/GT - Rebuilt eng, new trans/fuel pump/exhaust, 25-30 mpg. Pete, 751-4985.

TIRES - (2) new G78-15 Goodyear Polyglass belted, good for pick up truck. \$60. 589-5788 after 7.

68 FORD FALCON WAGON - 6 cyl, new front brakes/muffler/tailpipe, roof rack, good cond. \$400. Tony, Ext. 3499, 929-6156.

TIRES - (2) G78-15 w/w mounted on Chev rims, 6,000 mi. \$50/pr. George, Ext. 2982.

68 DODGE STATION WAGON - V8, ps, good running cond, (2) extra rims for snow tires. \$250. Lew, Ext. 2462, 928-4863.

76 NOVA - 6 cyl, auto, ps, 14,000 mi, buckets, console, radials, like new. \$3450. 289-7383 anytime.

74 DODGE WAGON - Crestwood, auto, ps/pb/ac, radio, 44,000 mi. \$2700. Nancy, 928-9274.

69 CHEVY COUPE - 6 cyl, 6 wheels, 2 snows, battery good, good second car. \$150. 473-8804.

TIRES - New & used tires, rims, snows/reg/radials, free installation, leak testing, balance avail. Fred Usack, Ext. 4597 lunchtime, 475-4935 eves.

RAINBOW TRUCK COVER - Fits all 8' beds, vinyl over nylon, new, still in box. Cost \$100 will sell for \$65. Brehm, Ext. 3284.

73 PLYMOUTH SATELLITE SEBRING - 318 V8, auto, 2 dr, ac/ps/pb, excel cond. \$2000. Ted, Ext. 4163/4126.

73 CAMPER - 11' Kontiki pickup, self contained w/12 V converter, shower, refrig, hot water, sleeps 6. \$2300. 728-2553.

SHELL OIL - X-100 multigrade, 50¢/qt. John, Ext. 3403.

69 FORD GALAXIE - 4 dr, ps/pb/ac, new parts. \$350. Steve, Ext. 3822, 929-6527.

69 HONDA - 450 cc, rebuilt eng, 8" ext, 74 rear wheel. \$800. Ken, 399-3558 after 6.

71 FORD GALAXIE - V8, ps/pb/at/ac, 4 dr, very gd mech cond. \$450. Rick, 727-7304.

67 WAGON - Country sedan, 289 eng, \$200, or best offer. 727-5912.

WHEEL - 2-15" for Ford or Merc, like new. \$8/pair. Nick, Ext. 4810, 588-6417.

65 CHEVY 1/2-TON PICK UP - 6 cyl, good tires, excel running cond. \$450. Larry, 751-2149.

69 PONTIAC LEMANS - White vinyl roof, bucket seats, excel int, ps/pb/at, new tires, brakes, muffler, orig owner. 325-0482.

1 PR RIMS - 15" reg, Ford. \$5. Mike Tesla, Ext. 3284.

67 FORD CORTINA - Station wagon, running, needs work, spares incl snow tires. Best offer over \$100. David, Ext. 3501, 286-8097.

66 CHEVY NOVA - 6 cyl, auto, new batt, alt, good tires, body needs work. \$99. Ian, Ext. 3761.

SNOW TIRES - Radials, Semperit, 165 SR13, 70% tread, mounted on Fiat wheels. \$60/pair; shop manual for Fiat 124, \$10. Ext. 3460.

TAPE DECK - W/anti-theft mount & 2 power play speakers, Craig. \$75. Ext. 4701, AR1-2877.

70 PONTIAC CATALINA - Sta wagon, auto, ps/pb/ac, 71,000 mi, snows. Ext. 4607, 368-0452.

2 TIRES - G78x15 w/w mounted on Chevy rims, 6000 mi. \$50/pr. George, Ext. 2982.

4 RIMS - 8-hole Chevy pickup truck, 16.5, \$100; 2 truck mirrors, \$20. Howie, Ext. 2043.

74 FORD - At/ac/ps/pb, excel cond. Best offer. George, Ext. 2982, JU8-1713.

65 MUSTANG - Front hood w/tunnel ram scoop, \$15, many Mustang parts. Chris, Ext. 4612.

68 CATALINA - 2 dr, just tuned, excel running cond, best offer. Ext. 4137, 666-3106.

70 OLDS 98 - Luxury sedan, 4 dr, fm stereo, ac, low mi. \$1100. Ext. 4137, 666-3106.

FORD RIMS - 14", 5-hole, 1 pair. \$8. Ext. 4846.

4 RIMS - 14" 4-hole, Ford Maverick, \$3 each. Ext. 2911, 581-4238.

72 MERC STATION WAGON - Colony Park, roof rack, trailer hitch, perfect cond. \$200. Ralph, Ext. 3649, 751-3639.

70 PLY FURY - 4 dr, 383, V8, auto/ac/ps/pdb, hd suspension, aux trans, cooler, welded hitch, equipped for travel trailer towing. \$525. Bob Monaghan, Ext. 4824/4688, 744-5098 after 6.

70 COUGAR - V8, auto, ps/pb, front discs, ac, am/fm stereo, well cared for. \$900. Janet Whitehead, Ext. 2872.

75 HONDA - CB500T, 12,000 mi, excel cond. \$1000. Paul, Ext. 2071.

76 HONDA CB 550 - 3700 mi. \$1600 firm. 589-5640 after 5.

MAG WHEELS - 14" Plymouth, \$35/pair. Dan, Ext. 3282.

62 PONTIAC CATALINA - 4 dr, V8, ps/pb, good cond. \$300. 589-3506.

74 PLYMOUTH - Satellite wagon, ps/pb/ac, 318 eng, very good cond, 81,000 mi, free snows & mats. Asking \$2400. 765-5373 after 6.

68 PLY FURY - Wagon, auto, ps/ac. \$450. T. Morris, 744-5096.

RIMS - 6-lug 15" Chevy pickup, \$5 each. Ext. 4688, 924-8213 after 5.

73 LINC CONTINENTAL - Fully loaded, needs body work. \$1000. 584-6058.

62 CHEVY IMPALA - 4 dr sedan, good cond. \$400. 924-5192 after 5.

76 CAMARO - 350, 4 bbl, 4 spd, steel radials, ps/pb, low mi, mint cond. \$4195. 821-0461 after 6.

69 VW VAN - Red carpet curtains, new rebt eng & trans, very good clean cond. \$1400. 667-1162.

70 CHRYSLER - Pb/ps/pw/ac, good cond in & out. \$850. Ext. 3319, 751-7140.

BEACH RIMS - 11" wide w/8-hole lugs, 16.5, will fit GM-Ford-Dodge. \$100. 289-8212.

68 CHRYSLER - Ac/ps/pb, runs well. \$275. Ext. 3674, 286-8060.

75 HONDA - Elsinore dirt bike. \$400. Jerry Quigley, Ext. 2907.

TIRES - Two 6.50x16" truck tires mounted on 8 lug rims. \$35 ea. Excel cond. Sue Norton, Ext. 2907 or 475-5834.

66 VALIANT - 6 cyl, auto, new starter/alt/batt, good tires, brakes, excel transportation. Asking \$425. Ext. 2032, 286-3455.

2 RIMS - 13" for VW rabbit/dasher. \$15. S. Wingard, Ext. 4665.

14" TIRE & RIM - For Ply Duster. \$10. Joe, 231-8479 after 6.

75 FORD MUSTANG II - Under 14,500 mi, clean, carefully driven, glycolite finish. Ext. 2886, 878-1574 after 6.

2 SNOW TIRES - L70-15 & 1 8:85-15, used 1 winter. \$40 for the 3. 473-2710.

64 CHEVY NOVA - 6 cyl, 2 dr, ac, excel cond, 25,000 mi. \$1500. Ext. 4273.

72 BUICK RIVIERA - B/w, am/fm stereo, 8-track, excel cond, 48,000 mi. \$2500. 281-2443, 4-9 p.m.

71 PLY DUSTER - 6 cyl, auto trans, manual, b&s, vinyl top, body & eng very good. \$600. Anant, Ext. 4210.

76 NOVA - 6 cyl, 14,000 mi, auto, ps, buckets console radials, like new. \$3450. 289-7383.

75 YAMAHA - 650 cc, low mi, elec start, luggage rack, roll bars. Asking \$1400. 286-9108 after 5.

2 SNOW TIRES - Sears Dynaglas C78-13, almost new, balanced & mounted on Toyota rims. \$50. George, Ext. 2296.

NEW & USED TIRES - Rims, repairs, snow, reg, radial, free installation & testing, balance avail. Fred Usack, Ext. 4597 lunchtime, 475-4935 eves.

72 SAAB 99 - Orig owner, body excel, 7000 mi on rebt eng, am/fm, roof rack, radials. \$1600. 878-4261 after 6.

73 DODGE VAN - 3/4 ton, 6 cyl, auto. 265-8827.

Boats & Marine Supplies

BUOYS - 12" long styrofoam bullet shaped, 50¢ each, about 20 avail; duck decoys, \$2. Bill Espensen, Ext. 3992.

69 SLOOP - C&C Corvette aux, 31', fully equipped for racing & cruising, excel cond. 286-1309.

16' HOBIE CAT - Special Goldfinger model, 1977 incl trapeze & trailer. \$2000. Ext. 4017.

Miscellaneous

YARD SALE - Dec. 3 & 4, Pineneck Ave., Patchogue, details, 289-8212.

CLOTHES DRYER - Sears, 1 yr old. \$115. Ext. 3338.

FREE HAMPSTERS - Cute, tame, paper-trained. M. Rowe, Ext. 4049, 878-9384.

XMAS WREATHS - Taking orders. \$4.50. Izzy, Ext. 3696.

TRAIL BOOTS - LL Bean Appalachian, size 10N, 2 mo old, new \$30. Rau, Ext. 3830.

PHONE ANSWERING MACHINE - Answers, records, plays back messages over phone. \$175. Bob, Ext. 4509.

SKATING RINK - Portable backyard, 20' dia, or smaller, 6" sidewall, all fittings & liner, protector, needs plastic liner, \$8. 289-1883.

ICE SKATES - Women's size 6, Hyde, all leather, boot & sole, very good cond w/guards, \$15; metal ski boot holder, \$2. 289-1883.

COUCH - Early Amer, love seat & chair w/ottoman. \$125. 286-0795.

BABY CRIB & MATTRESS - Childcraft, good cond. 286-9289.

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

SHIRLEY - 3 bedrm ranch, finished inside & out, fenced yard, many extras, must see. 281-5296.

NORTHPORT VILLAGE - 4 bedrms, eat-in kit, full basement, very low taxes. \$45,000. Pete, Ext. 3310, 757-3321.

PORT JEFF VILLAGE - 3 bedrm ranch, dbl kit, 2 baths, 2 1/2 car garage, low taxes, assumable 7 1/2% mortgage. \$38,900. 473-0178.

ROCKY POINT - "L" ranch, 2 car garage, 2 full baths, f/p in sunken den, eat-in kit, huge dining rm, 3 bedrm, fenced RR ties, walk to beach. \$43,900. Ext. 3284, 821-0042.

MANORVILLE - 4 bedrm Cape, 2 baths, lvgrm w/fp, 3 appl, w/w, s/s, above ground pool, fenced, garage, 2 outer bldgs, 2 acres. 878-1895.

SHIRLEY - Furnished 3 bedrm house, near water, fin. heated basement, 50x285 lot. \$27,000. Will hold mortgage. 281-5328.

SOUTH SETAUKET - Strathmore "Framingham," 5 bedrms, 3 full baths, central air, underground sprinkling system, w/w throughout entire house, many extras. \$55,000 698-1785 after 5 p.m. & weekends.

RIDGE - Colonial, 4 bedrms, 2 1/2 baths, f/p, 2 car garage, basement, 3/4 acre, many extras. 924-7671.

SHOREHAM - 4 bedrm Colonial, w/w, 2 car garage, full basement, s.s., 1 acre. \$57,500. 744-2821.

WADING RIVER - 2 bedrm renovated Cape, new heating system, beach rights, f/p. \$35,000. 331-1900 or 473-9556.

SOUTH SHORE AREA - Spacious ranch, 8 rms, 2 ceramic baths, dbl garage, walk to boat docking/pool/tennis. \$44,500. 289-0886.

E HAMPTON - "Lionhead Beach," lot #105, over 1/2 acre, wooded, priv beach/marina. \$17,000. Ext. 2978 days, 369-2526 eves.

4 BDRM HOUSE - Porch, hd wood floors, lg yard, low taxes, nr schools/shops/water. \$36,000. Vis, Ext. 3513, 878-4889.

MIDDLE ISLAND - 3 bedrm, fp, garage. \$29,000. P. Falcon, Ext. 3043, 878-2266.

For Rent

BELLPORT VILLAGE - Walk to store, golf, tennis & yacht club, unfurn 1 bedrm apt, suitable for couple, no children or pets, utilities included. \$200/mo, 1 mo security, years lease. 286-8850.

BROOKHAVEN - 2 bedrm house on large acreage, oil heat, 2 f/p, unfurn, 1 yr lease at \$260. Days, 212-422-7823, eves 212-254-3927.

MASTIC BEACH - Room for rent, large, furn, share kit & bath, female only, \$100/mo. 281-7777 after 6 p.m.

MASTIC BEACH - Studio apt, full kit, bath, studio rm, priv entrance. 281-8144 after 6 p.m.

SHIRLEY - 3 bedrm ranch, basement, garage, 3 appliances, immediate occupancy. \$350/mo. 878-1707.

VT CAPE - Fully equipped, ski x-country or down hill, reserve now. 732-6499.

WADING RIVER - 3 bedrm ranch, bsmt, garage, all appliances, with option to buy. Riverhead school district. \$29,995 or \$300/mo rent. JU 8-8866.

PATCHOGUE - 2 bedrm, lvgrm, kit, bath, priv ent, no pets. \$235/mo. Ext. 2907, 698-0576.

POCONOS - Chalet in priv community, indoor swimming, sauna, ski Tanglewood, etc. wk/wkend. 289-2159.

SHOREHAM N - 1 block from priv beach, 1 acre, custom 7 rm ranch, fin basement & office, f/p, appliances. \$400/mo. 744-7171.

VT CHALET - Furn, fp, fall color, hiking, skiing at Bromefield, Stratton, Killington, antique. Rates for wk/wkend to share season. 757-5599 after 4 p.m.

ROOMMATE - To share 5 rm apt in Mastic Beach. \$125/mo util incl. Ed, Ext. 3535/3516, 281-2177.

PATCHOGUE - Furn studio apt. \$175/mo + 1 mo security, no utilities. 281-3011.

N SHIRLEY - 2 bedrm apt, living rm, bath, kitch, 5 min to Lab. \$285/mo util incl. 924-8264 after 5 p.m.

POCONO'S CHALET - In priv comm, indoor/tennis. Rent by wk/wkends. 289-2159.

BROOKHAVEN HAMLET - 3 bedrm, fin bsmt, fp, garage, new appl, recently insul, porch, nr marina. Ext. 3338 after 6 p.m.

Wanted

TYPEWRITER - Portable elec, good cond, Smith-Corona preferred. Ext. 2345.

TABLE PAD - 48"x48" or larger, good cond, reasonable. Irene Merritt, 589-5126.

INDIVIDUAL - To bowl in Tuesday night Green League. Rich, Ext. 2495.

TYPING - Light, sewing, & babysitting, Medford area. 475-0144 after 6.

HOME - For affectionate, nutty Ches Bay/Lab. Sharon, Ext. 3341, 878-2591.

MALE - Yorkshire Terrier for stud services. And/or would like to find a Yorkie female puppy. Howard Kane, Ext. 3179, 212-631-2150.

LABELS - Campbell & Franco-American for the benefit of school children. Bookless, Bldg. 815.

HOUSE FOR RENT - With option to buy, 3-4 bedrms, Bellport/Brookhaven/E Patchogue area or North Shore. Walenta, Ext. 4253 or 3131.

HOME - Irish Setter, extremely lovable 1 yr old female, AKC. Ext. 2518, 744-8894.

FENCER - Epie, Foil, or Saber. To practice 1 eve a wk, must have own equipment. Dave, Ext. 3145.

SHOTGUN - 12 gauge imp cylinder Remington Model 1100 or Ithaca Model 37. R. Mele, 757-3178.

OLD - Dolls & toys over 50 yrs. 475-4199.

BIKE - 24", 5 or 10 spd, boy's. Tony, Ext. 3658.

RESPONSIBLE SITTER - Boys (6 & 9) after school to 5:30 M-F. Lt housekeeping optional, Yaphank. Anita, Ext. 3561, 271-9717 eves.

WHITWORTH TOOLS - For work on English car. Open-ended & socket, all sizes. Forsyth, Ext. 4676.

BABYSITTER - For 5 yr old Parr Village area on on site from 12:30 to 5 p.m. Ext. 3156/3159.

STEREO - Compact, portable, in good cond. Adams, Ext. 2540.