

From The Pacific

Last week, a 55-gallon drum of radioactive waste which had been disposed of in the Pacific Ocean by the University of California in 1953, was transported by truck to Brookhaven. The drum was retrieved from a depth of 900 meters in the Pacific Ocean approximately 40 miles west of San Francisco.

In October, Peter Colombo, head of BNL's Nuclear Waste Management Research Group, chemist Gregory Galdi and Charles Flood (S&EP), joined an Environmental Protection Agency (EPA) expedition to recover several radioactive waste barrels from the Pacific Ocean. The ten-day expedition was part of a radioactive waste disposal site survey conducted by the EPA. The survey is to determine the effect of ocean environment on the chemical and physical properties of the waste and containers which have been buried for more than 25 years.

The retrieval was accomplished by the use of a submersible (Pisces VI) and the University of Southern California's 110-foot research vessel Valero IV. Colombo said that when the drum was brought to the surface a four-foot long sponge was attached to it, but was lost during the retrieval operation. Scuba divers were unable to recover the sponge because of the presence of sharks.

Attempts to retrieve a drum from a 1700-meter site failed because of continu-



Health physicist Al Lukas monitors the ocean cask for radioactivity after its arrival at Brookhaven. —photo by Reben

ing heavy fogs. Colombo was aboard the mother ship to Pisces VI, the Pandora. According to him, visibility was so poor that a freighter came within 50 feet of colliding with the Pandora.

The Pacific cask will now undergo the same kind of analysis that was done at Brookhaven on a radioactive drum recovered from 125 miles east of the Maryland Delaware coast last year. This analysis consists of corrosion, matrix degradation, and radiochemical studies.

Life Is A Learning Experience

So you think that budget analysts are quiet studious people who don't think of anything but dollars and cents, and never get beyond the confines of the ledger.

William Sherry, who joined the Laboratory as a Senior Budget Analyst last August, came to his present career via the mountains of Bolivia and a flophouse in Detroit.

Born in Fort Wayne, Indiana, 30 years ago, Sherry spent most of his youth on an Ohio farm. After three years in high school, he went to Ohio Northern University in Ada, Ohio, and graduated with a degree in history. He majored in history because it was mildly appealing to him and because he scored 14th in the state on a test in American history. He first ventured abroad during his junior year of college. That year he went to school in Basel, Switzerland, lived with a Swiss family and spoke German.

Graduating from college near the end of the turbulent sixties "when idealism was high" he joined the Peace Corps. After a three-month crash course in Spanish, he was assigned to Bolivia. The first year he lived in Sacaba, a rural town ten miles from Cochabamba, the province capital. The second year he moved to Bella Vista in the subtropics, about ten hours by bus from the Bolivian capital, La Paz.

His farm background came in handy because he taught simple agricultural methods to the local populace. There are no libraries outside the cities and certainly no books or magazines on agriculture to acquaint the people with new developments. Even if there were publications, it wouldn't help much. Sherry says that 70% of the Bolivians are functionally illiterate because nearly everything is written in Spanish and most of the people speak only Quechua, the language of the Incas.

So if he wanted to teach the farmers how to shear a sheep, he would shear a sheep; if how to plant a garden, he would plant a garden. Generally there was one person in the area who could speak both Spanish and Quechua, so he would translate the instructions as Sherry demonstrated.

Living conditions were primitive. Sherry's house was an 8' x 8' wooden shack which cost him \$1.60 per month and walking was his main form of transport. He estimates that he walked six to eight miles a day and says he has never been in better shape. The



Bill Sherry

first year he had a horse to enable him to get into the mountain areas, but mostly his feet carried him wherever he wanted to go.

After his tour ended in 1970, he returned to Ohio. And then he decided to embark on an unusual experiment. He wanted to see if he could make it in a strange city, where he knew no one, had no job and virtually no money. His parents didn't think much of the idea; they thought he should settle down.

So he bought a bus ticket, in this case to Detroit, put \$15 in his pocket and off he went. On arrival, he spent \$7 out of \$15 on a week's rent in a so-called hotel, which he says was closer to a flophouse. There he lodged with men who had prison records, or who lived from day to day picking up odd jobs. In order to be accepted by the people in this environment, he used the story that there was a warrant for his arrest and he had to keep a low profile. This made him acceptable.

Sherry set out immediately to try and get a job as a day laborer. He got down to the state labor agency at 4 a.m. the next morning and found that he was 46th in line. The jobs gave out at number 21. He lived on bologna sandwiches and when the bologna ran out, on jelly sandwiches, and when the jelly ran out, on bread alone. His

(Continued on page 2)

The Role of National Laboratories

Following are excerpts from Laboratory Director George Vineyard's remarks before the Subcommittee on Fossil and Nuclear Energy Research, Development and Demonstration, of the House Science and Technology Committee, on November 2. He was invited to testify at Subcommittee hearings on the roles and missions of the National Laboratories of the Department of Energy.

The complex of DOE laboratories is a unique and powerful national resource. Started up during World War II to exploit military opportunities resulting from the discovery of atomic fission, this complex soon grew to encompass a wide range of civilian applications, including nuclear power. With the formation of ERDA in 1975 the programs have been extensively realigned and transformed to address the national problems in energy of all kinds. An important component of the work is research in the basic energy sciences. In addition, special responsibilities of the DOE are being supported, such as the national program in high energy physics which is a partnership between certain DOE laboratories and the universities.

The laboratory I represent, Brookhaven National Laboratory, emphasizes the basic sciences, both physical and biological, and has strong accompanying programs in special areas of applied science and energy technology . . .

Brookhaven is special because of its emphasis on user-oriented facilities and its simultaneous strength in basic and applied research. Each laboratory has its particular set of endeavors and its own special character. The extent of involvement with basic research varies widely. Each laboratory has specialties that relate to the region in which it is situated and to its history. The evolution of each Laboratory's programs has been influenced strongly by its facilities and the talents of its staff. While there are overlaps between laboratories, in my opinion the degree of overlap in general is not excessive. Indeed, vigorous competition exists between the laboratories, a situation which I consider healthy . . .

The DOE multiprogram laboratories are contractor operated and differ in this respect from most other Federal laboratories. While the contractor operation has sometimes been accused of making control of the laboratories by the parent agency more difficult, the degree of independence in these research centers is, on balance, beneficial. The contractor system has brought a number of industries, universities, and university consortia into the laboratory management picture, adding broad experience and strengthening the interaction with the university and industrial communities. The system clearly has enhanced the quality of the laboratories because it has made it easier to attract high quality personnel and has provided means for independent review of the research . . .

I should also like to emphasize that the nation's, and the world's, energy problems are complex and are of a decidedly long-term character. In the near term conservation measures will contribute more to solving problems than will new supply technology. On the other hand, conservation can make only a limited contribution before unacceptable changes in life style are required. New supply technologies will become imperative, and dramatically new technologies are needed eventually. New technologies will take longer to put in place than most people think, dramatically new technologies even much longer. There is danger in this situation of overselling the power of research and suffering the consequences of public disillusionment when panaceas are not quickly produced. Yet the longer pull absolutely requires many and complex major new technologies which will only be made possible by strong and steady commitment to a large national R&D effort.

In this perspective, basic science, applied science, and technology development are seen as a continuum, not sharply distinguished, each serving the other, and each necessary for the long term. It is consequently desirable to have all these different types of work going on side by side in a number of laboratories if maximum service to the whole energy problem is to be provided. Basic research can flourish in such laboratories if protected and encouraged, and may be the healthier for it. And the combination accelerates the rate at which practical uses inherent in basic research are identified and brought to the development stage.

The magnitude and time range of the energy problems require that research in all underlying areas be maintained strongly and that a wide diversity of applied research and technological development programs be pursued . . . Universities will continue to emphasize the long-range research, and industry will have primacy at the development and demonstration end of the spectrum. The DOE multiprogram laboratories with their mix of talents are serving effectively and almost uniquely as bridges between basic and applied areas . . .

Holiday Notice

Because of the Thanksgiving Holidays on November 24 and 25, the *Bulletin* will not be published next week.

ISOL Workshop



About eighty scientists from the USA and Europe gathered at BNL on October 31 - November 1 to consider the installation of an On-line Isotope Separator (ISOL) at the HFBR. Shown above are three of the delegates, (left to right) Lee Riedinger, Univ. of Tennessee, Ed Zganjar, LSU, and John Wood, Georgia Tech. The Workshop was co-hosted by John C. Hill, Ames Laboratory and R.E. Chrien of BNL.

For The Benefit Of All

As a community service, Brookhaven is supplying staff and facilities to Suffolk County Emergency Medical Services for an Advanced Emergency Medical Technician (AEMT) training course.

The course, which started last week at the Brookhaven Center, will be conducted twice a week for a period of three-and-a-half months. Learning life-saving techniques for heart attack victims will be persons from volunteer ambulance and fire department rescue companies from Lindenhurst to Montauk. Participants must possess an emergency medical technician (EMT) certificate.

Richard Skelton (Medical Department) who is himself an AEMT will be the administrator of the course. Dr. Junichi Iwai will serve as medical advisor and Veronica Brooks will supervise a staff of five nurses. The Brookhaven nurses - Lois Konon, Jane Burke, Doris Kiltbau, Ragna David- sen and Carol Kramer (formerly of the Medical Department) - will alternate in giving lectures and practical demonstrations. BNL Firefighter Daniel Gilliam, an AEMT, will help with the practical course work when he is off duty. Other medical staff will be provided by the County.

The intensive training at Brookhaven is being given during the day so that people who work at night may attend. The County is also offering several AEMT courses during the evening at local hospitals. According to Skelton, it is expected that graduates of these courses will become the core of Suffolk County's Advanced Life Support System.

Arrivals & Departures

Arrivals

Thomas J. DeSimone..... Safety & Env. Prot.
 Anthony Fainberg..... Nuclear Energy
 Douglas Hill..... Energy & Environ.
 Marsha R. Kipperman..... Personnel
 Stephen C. Menasian..... Accelerator
 Peggy L. Micca..... Medical
 Barbara J. Mulready..... Personnel
 Gabriele Sowada..... Applied Math.

Departures

Maria C. Beckman..... Safety & Env. Prot.

Cafeteria Menu

Week Ending Nov. 25, 1977

Monday, November 21
 Tomato vegetable soup
 Keilbasy w/sauerkraut 1.15
 Grilled ham steak & 1 veg. 1.30
 Hot deli - pastrami

Tuesday, November 22
 Cream of potato soup
 Chili con carne w/rice 1.15
 Macaroni & cheese & 1 veg. 1.05
 Hot deli - veal & peppers

Wednesday, November 23
 Beef barley soup
 Turkey tetrazzini w/noodles 1.10
 Bacon & vegetable quiche w/glazed
 Belgian carrots 1.20
 Hot deli - corned beef

Thursday, November 24
 Snack bar service 9:00 a.m. to 2:00 p.m.

Friday, November 25
 Snack bar service 9:00 a.m. to 2:00 p.m.

Saturday Concert



Violist Kim Kashkashian, a frequent participant in the Marlboro Music Festival and the Music From Marlboro tours will appear with the Sea Cliff Chamber Players in a program of "Virtuoso Duos" by Schubert, Saint-Saens, Chopin and Ravel for combinations of violin, viola, cello and piano in Berkner Hall on Saturday, November 19 at 8 p.m.

Retiring



Robert W. Dillingham, a Technical Supervisor in the Instrumentation Division will retire on November 30 after more than 30 years with the Laboratory. He came to Brookhaven on August 25, 1947.

— photo by Rosen

Free Checking Offered

The Bank of New York (Valley-Long Island Region) will provide free checking accounts to BNL employees if they participate in a direct payroll deposit program. Opening an account at the branch of your choice and providing this information to the payroll department (special form) is all that is necessary for implementation.

Currently there are about 1,000 employees having their paychecks deposited directly to a number of different banks. If you are not taking advantage of this system, here are some of the reasons it's a good idea:

- it eliminates the necessity of standing in line to cash your check
- if you are ill, or away on vacation, you need not be concerned about your paycheck since it will be forwarded to your bank
- it's an energy saver, one less trip in your car

A brochure prepared by the Bank of New York is being distributed to each employee in today's mail. Data regarding branch locations, and preferred loan interest rates offered BNL employees are also included. The preferred loan interest rates are considerably below those available at most other commercial banks on Long Island, but slightly higher than the rates available at Bankers Trust Co. Any questions, call Barney McAlary, Ext. 2494.

NY Tech Registration

The second cycle of the New York Institute of Technology's Accelerated Degree Program at Brookhaven will start the week of December 5. Students should register for the following courses on Monday, November 21, at Berkner Hall, between noon and 3 p.m.

No.	Title
3901	Personnel Administration
2411	Introduction to Sociology
7060	Motion & Time Study
2010	Principles of Economics I
3004	Developmental Math I
3400	Introduction to Marketing

The courses offered are toward a bachelor's degree in Business Administration, or a Bachelor of Technology degree.

The bachelor's degree in Business Administration encompasses a core of overall business studies and the humanities, plus a number of specializations toward specific goals. Areas of concentration could include marketing, management, finance, and accounting.

The program leading to the Bachelor of Technology degree with a major in Electromechanical Computer Technology, stresses practical application of scientific theory and principles. Laboratory sessions afford the student first-hand experience with mechanical power, machine measurements, electronic devices, computer organization and configuration, and their adaptation to industrial practices. Completion of the first two years of study leads to the Associate in Applied Science degree.

Under the Laboratory's Tuition Refund Program, employees who complete their courses with a "C" average or better will be reimbursed 75% of tuition fees only, after submitting proof of grade.

A Learning Experience (Cont'd.)

money had disappeared when he finally got a job carrying 130 pound bundles of aluminum siding, which lasted six hours and for which he received \$7. No amount of money has ever looked so good to him since, he says.

In Detroit he found that it took him several months to find a steady laboring job. When he felt he had met the challenge he left and tried the same thing in a few other cities. He learned a lot about himself and about other people, and he also learned that day laborers do very hard work.

After he mastered his survival training, Sherry returned to the "straight life" in Defiance, Ohio, and became deputy director of the local Community Action Commission. The main thing he learned from this job was that he didn't know anything about how to run an organization.

So he packed himself off to Ohio State University in Columbus to pursue a master's degree in public administration. He wanted to find out how you actually manage something and not just "sit at the helm and watch things go by."

While at Ohio State, he got a job with a research foundation doing attitudinal testing of people in half-way houses. Through this project he got to know municipal government officials in Columbus and was eventually offered a job with the city fi-

nance department. He received his master's in 1975 and continued working with the city until he came to Brookhaven last summer.

Sherry finds Brookhaven a stimulating and dynamic environment which is also intellectually rewarding. He has no plans for further adventuring here - so far, all he has done is join the volleyball team.

Hear Ye! Hear Ye!

The time for Christmas has come near
 'Tis time for us all to spread good cheer
 Singing is part of it
 Why not put your heart in it?
 All you must do
 Is call 4512

And let me know you'll be there

Join the annual Christmas caroling; all are welcome.

— Bonnie McNair

Cooking Exchange

One goose, two geese, a gaggle of geese! On Wednesday, November 23, at 12:30 p.m. in the Recreation Building, the Cooking Exchange will cook its' goose for a traditional Thanksgiving dinner.

If you have a special recipe that you think would be a perfect accompaniment to this noble bird, call Judy Mills at 281-4772.



Workers put down approximately one-and-one-half acres of heavy plastic lining the new sewage holdup pond.

Protecting The Environment

As a further environmental safeguard, the Laboratory has converted two and one half acres of land, overgrown and abandoned since World War II, into an emergency sewage retaining pond. The \$65,000 system, which has been in operation for about one month, will insure that no pollutants will be released from the Laboratory site.

The pond which is lined with heavy plastic, and an adjacent unlined recharge bed, will provide the capability of storing,

treating and disposing of approximately two million gallons of sewage should it become contaminated with known pollutants.

The holdup facility is connected to the sewage treatment plant through piping and valves, and the influent is continuously monitored. Should the presence of pollutants be suspected, either by visual observation of the plant operators, or by instream instrumentation alarms, the sewage is diverted to the holdup pond and bypasses the Sewage Treatment Plant.

TUNE IN!

Question #476

I just recently picked up two rolls of black and white film I had processed at the on-site film store. I was shocked to find the price was \$5.60 plus tax, totaling \$5.99 for a 20-print black and white. I have a mailer from Clark Photo and the price of a 20-print b&w development is \$2.25 plus 40¢ for handling and 26¢ for postage for a total of \$2.91. The on-site "convenience" store has an "excess" of \$3.08 for the exact quality paper and photo. Why is this so? I know the store is supposed to serve the BNL personnel, but at such an excess, I would rather not be served.

Answer

The film and film processing offered at the BERA film store are meant to be competitive in price, quality and convenience with local independent camera stores. Chain stores and cut-rate mail operators offer a less expensive product that may be satisfactory for some employees' needs. For others, however, especially those using color slides, a higher quality product is essential.

Joseph Washburne, Manager
 Personnel and Labor Relations

Sweet Adelines To Sing In BERA Concert

For the many lovers of four-part barber-shop harmony, BERA has arranged a special treat for you. On Friday, December 2, at 8:30 p.m. in Berkner Hall, the Spindrifters Chorus of the Eastern Suffolk Chapter of Sweet Adelines, Inc., will present a program that promises to be a thrilling experience for those who come to hear it.

The chorus, directed by James Strong and consisting of forty women who love to sing, has been the main attraction of numerous fund-raising concerts in the Long Island area, always with enthusiastic audience response.

Also featured with the chorus for the BERA concert 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 the night of the concert. Admissions: \$3.00 - adult; \$2.00 student and senior citizen; \$1.00 - child.

BROOKHAVEN BULLETIN

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Energy Reminder

With Thanksgiving and the holiday season close at hand, can the cold winter weather be far behind. B.N.L. employees are once again being asked for their assistance in helping to conserve our heating fuel supplies. Where applicable lower your storm windows. Set thermostats to 68°F maximum during working hours, 55°F maximum at all other times.

CREF Values

1977			
January	\$40.27	February	\$39.30
March	38.73	April	38.73
May	37.96	June	39.91
July	39.91	August	38.56
September	38.65	October	\$36.91

IBEW Meeting

Local 2230, I.B.E.W. will hold its regular monthly meeting on November 28, 1977, at 8:00 p.m. in the Knights of Columbus Hall, Railroad Ave., Patchogue. There will also be an afternoon meeting at 2:00 p.m. for shift workers in the Union Office at 31 Oak Street, Patchogue. On the agenda will be regular business, committee reports and the President's report. Please note the change in date due to Thanksgiving.

Table Tennis

The BNL summer table tennis ladder closed with John Lee holding the top rung, closely followed by Dave Cox, Sam Cheng, Charlie Zein, Emil Fu and Bill Lee. Throughout the entire tournament the top ten spots changed back and forth almost as fast as a ping pong ball bounces.

There will be a clinic at noon on Monday, November 21 and Tuesday, November 22 in the table tennis room of the Brookhaven Center (also known as the south dining room).

The instructional chores for both the "shake hands style" and "penholder grip" will be ably handled by Charlie Zein and John Lee. The clinic is open to everyone so please stop in. Registration is not necessary.

The fall and winter season will kick off with a tournament starting the week of November 28. Please register at the BERA Sales & Services at Berkner Hall. We will have several flights or classes in this tournament so don't be hesitant about signing up.

Art Enlivens Berkner Hall



In case you are puzzled about the sculpture hanging above the reception desk in Berkner Hall, it's just that, a puzzle. The assemblage depicts a sonnet, both of which were created by sculptor James Russell who is well known in both New York and the midwest. The rebus was lent to us by Lawrence Majewsky, head of the Conservation Center at the New York University Institute of Fine Arts. Another beautiful addition to Berkner Hall is the tapestry opposite the sculpture. This hand-crafted felt wall hanging is on loan to us from the artist, Thelma Becherer. She calls it "Vital Forces."
 —photo by Reben

Runners' Corner

On Sunday, November 13, a large group of hardy BNL Roadrunners braved the cold weather to compete in a family day of races sponsored by the Rocky Point Booster Club. All of the BNL runners wore the new team shirts for the first time in competition. Ted Landry blazed to victory in the six-mile event. Like many runners, he ran about seven miles due to an improperly marked course. Three year old Eric Swendsen captured his first trophy by grinding out a quarter-mile run paced by his mother Carol. Carol Swendsen and Helen Duggan competed in a four-mile run in Central Park on Saturday.

The Running Club has a supply of shirts to be loaned out for competition. Many runners have purchased their own. John Beerman, Ext. 4076, is taking orders for anyone wishing to purchase shirts at \$3.00 each.

The second annual Town of Brookhaven ten-mile turkey trot on Sunday, November 20. The race is for Brookhaven Town residents and starts at the Brookhaven Airport off the William Floyd Parkway, at 11 a.m. Anyone living on site is eligible. Registration begins at 9 a.m. BNL runners will be there in large numbers. Anyone wishing to borrow a team shirt should contact Ted Landry, Ext. 2959. This is a good, flat course with entrants of all shapes, sizes, and abilities.

There will be a general meeting of the Runners Club on Monday, November 21, at noon in Room A, Berkner Hall. If you enjoy running or would like to start at any level, please come and learn about our activities. There are no dues or involuntary servitude. We will discuss the club running program, finances, officers, etc. Information concerning the club is available from Bill Thomlinson, Ext. 3978, John Beerman, Ext. 4076, and Gus Prince, Ext. 2901.

Volleyball

The night of November 2, saw the Cool Tools sweeping the Atom Spikers, 21-13, 21-6 and 21-13; the Spikers edged the Bumps 21-14, 21-19 and 14-21. In the late match the Easy Aces beat Biology 21-13, 12-21 and 21-11. On November 9, there were no 3-0 sweeps. Phoenix beat the Spikers 21-13, 21-15 and 16-21; the Bumps won over the Atom Spikers 21-4, 14-21 and 21-16. In the remaining match the Easy Aces upset the Cool Tools 21-7, 7-21 and 21-12.

Employees' League Standings

Phonix	5	1	.833
Bumps	6	3	.667
Spikers	6	3	.667
Cool Tools	4	5	.444
Easy Aces	4	5	.444
Atom Spikers	1	5	.167
Biology	1	5	.167

Mixed League Standings

Division A			
No Names	3	0	1.000
Lookin' Good	2	1	.667
Le Muf	2	1	.667
Ass't DOEnuts	1	2	.333
Popovers	1	2	.333
Nads	0	3	.000
Division B			
Nut & Bolts	3	0	1.000
Leftovers	2	1	.667
Oceanography	2	1	.667
Diamonds	1	2	.333
Riffraff	1	2	.333
Cowturkeys	0	3	.000

Bike Tour Reminder

This Saturday, November 19, is the Soporific Half-Century (50 miles) - see the October 28 Bulletin for details. Meet at the Soporific Bicycle Shop on Montauk Highway in Bridgehampton at 9:30 a.m. or contact Jim Long, ext. 4605 for car pooling.

Pool Closing

The swimming pool will be closed for special maintenance Thursday, December 1, 1977 through Monday, January 2, 1978.

Starting on Tuesday, January 3, the following schedule will be in effect:

Weekdays

11:30 a.m. to 1:30 p.m.

employees only

5:00 p.m. to 9:30 p.m.

employees/families/guests*

Weekends

1:00 p.m. to 6:00 p.m.

employees/families/guests*

Tickets for the new season, beginning on January 3, will be sold at the pool on re-opening day.

*Only one guest per adult BERA member may be admitted to the pool. Adult BERA members may have more than one but not more than five guests at any one time by making advance arrangements at the Recreation Office in Personnel. Members will be responsible for the conduct of their guests or their children, or both.

Bowling

A lot of action in team standings. In first place are the Pinsplitters followed by the Odd Balls, Lickety Splits, Gutter Getters, Fiscal Assets and Personnelities.

High games for the night were Pat Oster 178, Marie Brenner 171, Carol Beckner 165/165 and Renie Rosati 162. There were also some nice splits made by Ellie Adams (5-7), Marge Stoeckel (5-7), Bernice Armstrong (4-6), and Pat Oster (5-10).

Red League

Three teams took 11 points this week. The Bubble Boys took all three games from the Old Timers II. W. Kollmer had a 214 and J. Pukit 658 gross pins. The Freon Loaders downed the Pick-Ups with one game, a 1091. F. Stahman and F. Powers knocked down a lot of wood. The 76'ers beat the Sparks all three games with R. Larsen having a 209.

The Designers took 8 from the Blue Jays. J. Ferrero bowled a 203. The Sandbaggers won 8 from the Trouble Shooters. One of the games was a 1058. C. Bohnenblusch had 209/204 (646 gross) and R. Meier a 205. The Cosmos came out on top of the Anachems 8-3 in their match. C. Neuls had a 208. The Old Timers only took 3 in their match with the Got-A-Hit-Ums. W. Reams, still bowling well, had a 205.

Purple & White League

Gail Thompson had the high game for the ladies with a 202 and also high series with a 515.

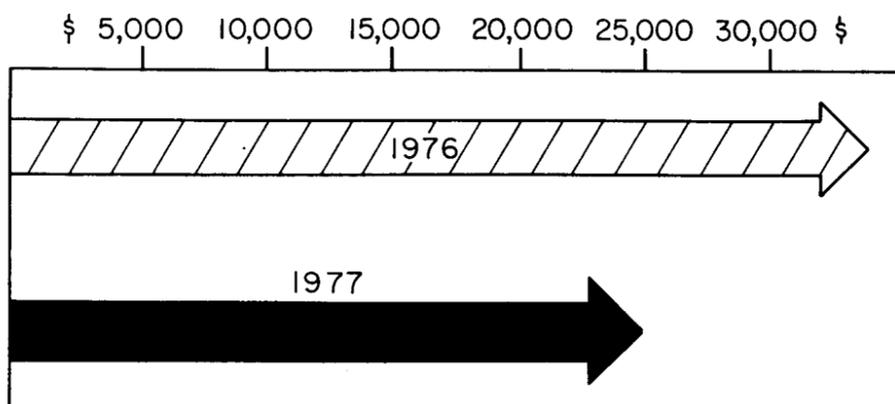
High games for the men were Tom Polistina 233, Dick Murgatroyd 203, Ed Sperry 203, Ben Belligan 201/201. High series was Ben Belligan with a 582.

Green League

The Blue Jays took only three points from the Designers but still manage to lead the league. For the Blue Jays, J. Berech had a 202. The Dyno-Mites took eleven from the Pinball Wizards to close the gap to first place. For the Dyno-Mites, R. Zapasak had a 201. The Old Timers II got dumped for eleven from the Bubble Boys. The Got-A-Hit-Ums took eight from the Old Timers. The Trouble Shooters could only manage three points from the Sandbaggers. The Sparks got short circuited and the 76'ers took them for eleven while the Freon Loaders froze out eleven points from the Pick-Ups. The Dyno-Mites rolled a new three game gross series of 3142.



The United Way!



1976 and 1977 United Way Campaign Chairmen are all smiles as present Campaign nears an end. Per capita giving is higher than last year with number of contributors and total dollars pledged coming close but not yet topping 1976.



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.

- 393. DRIVER - Plant Engineering Division.
- 394. LABORER - Plant Engineering Division.
- 395. LABORATORY CUSTODIAN - Plant Engineering Division.
- 396. SECRETARY - Part time. Four month position. Department of Energy and Environment.
- 397. OFFICE SERVICES ASSISTANT - Requires knowledge of general office procedures and good typing skills. Department of Nuclear Energy.

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

- 398. REACTOR STANDARDS ENGINEER - Requires an advanced degree (preferably nuclear engineering) and substantial reactor operating and management background. Experience must include the application of nuclear standards, Regulatory Guides and Regulations. Must be able to communicate effectively both in writing and orally. Reactor Division.
- 399. PROCESS ENGINEER - Master's in chemical or civil engineering or its equivalent and experience in optimizing glass-polymer formulations, process design and flow sheeting, and economic analysis are required. Department of Energy and Environment.
- 400. DEVELOPMENT ENGINEER - BSME or its equivalent is required. Background in vacuum, rf and/or accelerator systems would be helpful. Will direct the mechanical engineering efforts for group investigating use of heavy ion fusion. Accelerator Department.
- 401. TECHNICIAN - AAS or its equivalent in chemical or metallurgical technology and basic familiarity with metallurgy, particularly specimen polishing, etching techniques, optical microscopes, metallographs, and hardness techniques are required. Department of Energy and Environment.
- 402. ELECTRICIAN A - Plant Engineering Division.
- 403. REFRIGERATION AND AIR CONDITIONING ENGINEER - Plant Engineering Division.

Autos & Auto Supplies

- 70 OLDS 98 - Luxury sedan, 4 dr, ac, 8 track fm stereo, low mi. \$1100. Ext. 4137, 473-4583.
- 62 PONTIAC CATALINA - 4 dr, V8, ps/pb, good cond. \$300. 589-3506 after 6.
- 72 PLYM FURY III - Sdn, 360/V8, all asc, ac, fm/am radio, new tires/muffler. Best offer. J. Nitteberg, 345-3135.
- INTAKE MANIFOLD - For 327 Chevy plus 2 bbl carb complete w/air cleaner. \$50. Ext. 4701, ARI-2877.
- RIMS - 1 pr 15" dis/Plym, \$10; 1 pr 15" reg/Ford, \$5. Mike Tesla, Ext. 3284.
- 69 CHEVROLET BISCAYNE - Just rebuilt 327 eng, runs perfect, ps, auto, good tires, body needs work. \$825. Dean, 288-2809 after 6 pm.
- RIMS - (2) 15" Ford rims for snows \$8/pr. Roy, Ext. 2384.
- RIMS - (2) 15", 5 lug, off Chevy pickup, \$5 ea. Whitey, Ext. 4688.
- TIRES - (2) L78-15 ww belted snow tires, used less than 1000 mi. \$75/pr. R. Friedman, Ext. 3588.
- TIRES - Snow, Firestone, F78-14, on wheels, good tread. \$20 ea. Arnie, Ext. 4161.
- 72 FORD GALAXIE - 4 dr, auto, ps/pb/ac, extras, excel cond. \$975. Bob, Ext. 3386, 878-1471 after 5:30.
- RIMS - (4) 15"x10" steel, for Chevy or GMC 4x4, \$60; 2 heart shape windows for van, \$30. Bill S., Ext. 4434.
- PEUGEOT DIESEL - Still under warranty, under 14,000 mi, 35-38 mpg, styling option, am/fm 8 track stereo. \$5990. Rich, Ext. 2965, Barbara, 924-4162.
- TIRES - New & used tires, rims, repairs, reg/snow/rad, free instal & test, balance avail, low prices. Fred, Usack, Ext. 4597 lunchtime, 475-4935 eves.
- 65 MUSTANG - Front hood w/tunnel ram scoop. \$15. Chris, Ext. 4612.
- 23 MODEL T FORD - \$5000 firm. Ext. 4539.
- 76 CAMARO 350 - 4 bbl, 4 spd, ps/pb, steel radials, low mi, mint cond. 821-0461.

- 73 KONTIKI PICKUP CAMPER - Full self-cont, sleeps 6, 12 V converter, shower, hot water, stove, refrig, roof rack. Asking \$2300. 728-2553.
- 70 CHEVELLE - 6 cyl, 2 dr, auto, ps, red, blk vinyl top, snows. \$775. Ken, 399-3558 after 6.
- 74 MATADOR X - 41,000 mi, very clean, best offer, new tires, tuneup, winterized, new spare & jack. Grace, Ext. 2529.
- 74 FORD - Ac/at/pb/ps, excel cond. Best offer. George, Ext. 2982.
- 65 PONTIAC BONNEVILLE - Excel running cond, 2 snows on rims, protected to -35°F, moving must sell, make offer. 331-1045.

- MONTE CARLO - Auto trans, ps/ac, excel cond, 56,000 mi. Bob Sick, Ext. 4021, 473-3693.
- SNOW TIRES - Radials, 165 SR15 for VW, mounted on wheels. \$50 pair. Carl Wingard, 475-3717 after noon.
- 74 VW DASHER - Red, automatic, am/fm radio, 46,000 mi. Best offer. 286-3742 eves.
- 72 SUZUKI - T500, good mech cond. \$450 firm. D. McCutcheon, Ext. 4032.
- 69 FORD GALAXIE - 4 dr, ps/pb/ac. \$350. Steve, Ext. 3822, 929-6527.
- 69 PONTIAC LEMANS - 2 dr, ps/pb, good cond. 325-0482.
- 73 JEEP PICKUP - ¾ ton, auto trans, ps, 360 eng, quad track, 36,000 mi, w/cap & bunks, excel cond. \$3700. Ext. 2231, 475-0037.
- 2 TIRES - 6.50x16" mounted on 8-lug rims, excel cond. \$70/pr. Sue Norton, Ext. 2907, 475-5834.
- 67 DODGE CORONET - 8 cyl, 4 new tires, snows on rims, new master cyl, starter, exhaust sys, dependable. \$550. Kathi, Ext. 2907, 589-8410.
- 67 MUSTANG - Classic, convertible, 8 cyl auto, new top, front end, carb, starter & wiring, eng & body good. \$550. Matt, Ext. 4506.
- 66 VALIANT - 6 cyl, auto, new starter/alt/batt, excel transport. \$425. Ext. 2032, 286-3455.
- 71 FIAT - 850 Spyder, 4 sp, convert, lime green, black top, radials, 654-3303 after 5.

Boats & Marine Supplies

- 34' RICHARDSON - Fly bridge, sleeps 6, many extras. Asking \$4000. AT6-0505.

Miscellaneous

- FISH TANKS - Modern 220 gal, 210 gal, complete w/stands, lights, pumps, etc. excel cond. \$60. 744-3839.
- CAMERA - Nikon Super 8 movie, auto zoom, f1.8 lens, best offer over \$100. Jim, Ext. 2485.
- SLIDING DOOR - Glas, dbl pane insul, white alum, screen, new in box, 6'x6'8". \$180. 331-2779.
- JUDO UNIFORM - For beginner, new; Christmas tree, \$3; GAF Weatherboard siding, new, \$7; steak & brew set, \$5; hair dryer, \$2. 281-6130 eves.
- COLONIAL COUCH - Bennington pine, very good cond. \$110. 878-4261 after 6.
- MOVIE SET - Bell & Howell, best offer; RCA 19" TV & stand, \$50; lg table, \$5. 281-8592.
- STUFFED LOVE SEAT - 1920's, good cond. \$50. 878-1698.
- SKIIS - 185 cm, White Star Kneisell, Marker Rotamat I bindings, poles & case incl, used very little, \$50. Winsche, Ext. 2932, 286-0517.
- MEN'S FIGURE SKATES - Worn once, sz 10, \$6; men's tan cashmere overcoat, like new, sz 44-46. 475-8971 after 6 p.m.
- ARXA TURNTABLE - Shore M91E cart, \$50; (2) Utah 3 way 12" woofer speakers, \$100. Jack, Ext. 2253.
- MASTERWORK STEREO - Am-fm radio; Panasonic 7" reel to reel tape recorder; Polaroid 450 camera. Harris, Ext. 4418, 281-7974.
- REFRIGERATOR/FREEZER - Large Westinghouse.. \$100. Ext. 3922.
- ROLLEIFLEX TESSAR - 1:3.5 F, 7.5 cm lens, w/flash attach, tripod, filter/photo lenses. \$125. Charles, 281-7654.
- REFRIGERATOR/FREEZER - Coldspot 16 cu ft, self defrost, you pick up. \$25. Ext. 4823.
- CAMERA - SLR, Kalimar SR200 w/f2.58 mm lens & case. \$49. Les, Ext. 4074.

- PLAQUES - Exquisitely made w/fine feathers, imitation jade & coral, ideal for gifts. 924-3066.
- ACCORDION - Ferrara, 3 key 120 bass, good cond. \$75. Art Friedman, Ext. 4819.
- SPREADER - Used twice. \$3. 698-0013.
- AMPLIFIERS - (2), 270 acoustic, like new, \$550; Bassman Fender, good cond, \$200. Henry Boyd, 727-3019 after 2.
- ENGLISH SPRINGER SPANIEL - Puppy, 5 mo, male, AKC reg, housebroken, affectionate. 286-2788.
- COLONIAL DINETTE SET - 3 pc, (1) maple drop leaf table, 17x46 leaves & 35x46 leaves. 928-2244 after 6.
- STAIR GLIDE - American, 17'6" long, mounts on any straight stair case. \$750. G. Price, Ext. 3336, 472-1419.
- CAR SEAT - Ford child's safety seat. Asking \$20. 473-2473.
- DOUBLE HUNG WINDOWS - (2) in single frame, 37x65 overall, w/storms & screens. \$10. M. Levine, 473-2754.

- ANTIQUA SCHOOL HOUSE CLOCK - Circa 1900 solid oak base, time/strike, excel running cond. 981-0917.
- SKIES/CABLE BINDINGS - (2), 56", \$5; 63", \$10. (2) ski boots, sz 7½, \$10; sz 5, \$5; skis, 78", \$25. Jack, Ext. 2485.
- CB COBRA - 139 XLR base station, 40 channel ssb w/T 104 mike, excel cond. \$320. Chris, 929-6816.
- LIVING SOFA - And slip cover, 78"; 11x11 rug, gold acrilan, no reasonable offer refused. Ann, 286-2280.
- OPERA TICKETS - (2) for performance "La Traviata" at Met opera, Thurs Nov 24, red to \$12. 345-3110 after 7.
- TOOL BOX - New Craftsman 3 drwr for rollaway top. A. Campbell, Ext. 3354.
- HEATH KIT - 1 c digital VOM. Juan, Ext. 3354.
- FISHING CHAIR - White, deck mounted, like new. \$80. Lou, Ext. 4687.
- VITA MASTER - 3 way exerciser, motorized. Asking \$100, cost \$250 new. Marie, Ext. 3673, 588-4806 after 5.
- DEEP WELL PUMP - Sta Rite, ¾ hp, 115 V or 220 V. \$75. Winter, Ext. 3354.
- AIR MATTRESS - (2), new, \$5 ea; Kindness custom care delux, used twice, \$18; maple rocker, \$20; wheelbarrow, \$10. 325-1961.
- WINTER COAT - Woman's blk borgona, gray collar, cuffs, hem, new, size 16. \$75. Ext. 2003, 472-0086.
- HI-RISER COUCH - Hardly used, brown. \$50 firm. Ext. 3335, 878-0993 after 6.
- 2 WINE DECANTERS - 16", amber colored, w/stopper 22". \$5. Ext. 3327.

- 10" RADIAL ARM SAW - A1 cond w/all equip. Ext. 2409.
- SSB HAM EQUIP - Heath SB/101, receiver, ac supply, spkr, keyer, mike, swr, dummy load. \$350 or best offer. 724-7460.
- KITCHEN SET - Round table w/extension, 4 chairs, steep stool chair. \$75. Ext. 3392, 475-8330.
- WOOD STOVE - Jutul 602 Norwegian, air tight, rated heating capacity 4766 cu ft, like new. \$250. Doris, Ext. 3639.

- CHRISTMAS LIGHTS - Big outdoor, string of 101 bulbs, half flash, 36 extra bulbs. 751-0923 after 5.
- BIKE - Small 2-wheel, \$10. 289-1754.
- MICROMET FEEDER - \$25; chrome blender, \$10; lg paper cutter, \$10; combo vise/drill press, \$45; 6' work bench, \$35. 878-0717.
- GE REFRIG - 15 cu ft, \$60. Karen, Ext. 3623.

- GARAGE SALE - Nov 18-19, 10-3, fireplace, floor polisher, kidney table, much more, 11 Maryanne Ave, Port Jeff.

- PIANO STOOL - Old, mint cond, mahogany seat, 14½", adjust in height from 18" to 22". \$30. 929-4530.

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

- PORT JEFF VILLAGE - 3 bdrm ranch, dbl kitch, 2 baths, 2½ car grge, low tax, assumable 7½% mortgage. \$38,900. 473-0178.
- CALVERTON - 3 bdrm townhouse, 1½ bath, 5 appl, w/w carpeting, cent ac, dining rm, 15 min to Lab. \$23,500. 369-2526 after 6 pm, Ext. 2978.
- ROCKY PT - 4 bdrm colonial, eat in kitch, 2½ bath, cent ac, fp, w/w carpet, all appl, garage, ½ acre, priv beach. 744-1156.
- 4 BDRM HOUSE - Porch, hd wood flrs, lg yard, low taxes, nr schools/shops/water. \$36,000. Vis, Ext. 3515, 878-4889.
- SHIRLEY - 3 bdrm ranch, fin inside & out, fenced, many extras. Must see. 281-5296.
- BELLPORT VILLAGE - 3 bdrm, 2 baths, ½ acre, dbl garage, screened porch, attach greenhouse, many extras. 286-2724.
- SHOREHAM - 4 bdrm colonial, 2½ baths, garage, fl bsmt, all appl, 1 acre. \$58,500. 744-2821.

- SELDEN - 4 bedrm colonial, many extras, must be seen. Reduced from \$42,000 to \$33,900. 732-2720, 399-0971.

- E PATCHOGUE - 2 bdrm, fl bsmt, fenced, alum siding/windows, new roof, city water, oil h/w heat. High 20's. 289-8212.

- S SETAUKET - Strathmore "Framingham", 5 bdrms, 3 baths, c/air, undergrd sprinkling sys, w/w carpet, many extras. \$55,000. 698-1785 after 5 pm.

- CENTER MORICHES - Building lot, 100 x 175 deep, between # 25 & 31 Senix Ave. Beautiful area & convenient to everything, 15 min to Lab. 878-0717.

- NORTHPORT VILLAGE - 3/5 bdrms, eat in kitch, fl bsmt, very low taxes, \$45,000. Pete, Ext. 3310, 757-3321.

- CENTER MORICHES - 2 bdrm home, outside hobby/workshop, 75' x 168' landscaped lot on dead end street, convenient to everything. \$38,000. 878-0222.

- S SETAUKET - 3 village SD, 4 bdrm colonial, fin bsmt, undergrd sprinklers, alarms. Mid \$50's. 698-4309.

- ROCKY POINT - 4 bdrm colonial, eat in kitch, 2½ baths, fp, w/w carpet, all appl, ac, garage, ½ acre, priv beach. 744-1156.

- SOUTHAVEN - 2 bdrm house, fenced, 100 x 100 lot, 7 min to lab, near Southaven park. \$28,000. Ext. 2957 AT6-0796.

For Rent

- ROOMMATE - To share 5 rm apt in Mastic Beach. \$125/mo util incl. Ed, Ext. 3535/3516, 281-2177.
- VT CHALET - Furn, fp, fall color, hiking, skiing at Bromeley, Stratton, Killington, antique. Rates for wknd/wk or share season. 757-5599 after 4.
- SOUND BEACH - 3 bdrm hi ranch, fp, choice of interior colors, new home. \$365/mo + util. 744-5261 after 6.
- PATCHOGUE AREA - 2 bdrm, living rm, kitch, private entrance. \$235/mo heat incl. Walt, Ext. 2907, 698-0576.
- 1 BEDROOM APT - Furn, \$225/mo util incl. 281-7292 after 6.

Wanted

- HOME - For white German shepherd, extremely lovable, all shots, neutered, 1 yr old, well trained. Free to right person. Neva Delihias, Ext. 2959, 286-9427.
- PIANO - In good cond, inexpensive, prefer Bellport or close vicinity. 286-8724.
- TWO BOWLERS - To join bowling league on Sunday's 6 pm, at Rocky Pt Bowl. Don, Ext. 4346, 821-9125.
- HOUSE TO RENT - In Port Jeff village by Jan 1. Les, Ext. 2282.
- VIOLIN - Full size, inexpensive. 589-3269.
- DINING RM TABLE - Old hardwood w/extra leaves, cond not important. Dan, Ext. 3145, 689-8040.
- BABYSITTER - For 8 mo old in our home, Mon-Fri, 8:30-4:30. 928-8737.
- TABLE/CHAIR - For small child. Jo, Ext. 4210, AT6-9482.
- MOTHER'S HELPER - Reliable person, flex hrs, 3-5 days/wk. 345-3136.
- OLD VACUUM CLEANER HOSE - Ext. 4463.
- LABRADOR RETRIEVER PUPPY - AKC, female, black, 6-8 wks old. R.C. Anderson, Ext. 3336.
- WHITWORTH TOOLS - Wanted for work on English car, open ended & socket, all sizes. Forsyth, Ext. 4676.

Car Pools

- LIE - Exits 49 to 54 to BNL. Ext. 3036.

Services

- HANDMADE DOLLS - Raggedy Ann & Andy, Santa Claus, etc. Order now for Christmas! Ext. 2478.
- TYPING - Proofreading. Dianne, 288-2660.
- FURNITURE STRIPPING - Varnish & paint removed; chairs caned. 924-8547.
- MACRAME PLANT HANGERS - Made to order. \$10-up. Pat Aud Isaacs, Ext. 2064, 734-5226.
- SAW SHARPENING - Hand & circular. Joe, 732-3286.

Classified Ad Policy

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

1. The Brookhaven Bulletin's classified section may be used only by active and retired Laboratory employees.
2. All items for sale or rent must be the advertiser's property.
3. Ads for material acquired for resale in association with a full or part-time business cannot be accepted.
4. Firearms offered for sale or trade may not be brought on site.
5. Ads not carried because of space restrictions will be held for publication in the next issue.
6. Ads are run only once and must be resubmitted if they are to be repeated.
7. Ads should be restricted to 20 words or less and typed or printed on the form provided, and must bear the employees signature.

<input type="checkbox"/> For Sale: Auto & Auto Supplies <input type="checkbox"/> For Sale: Boats & Marine Supplies <input type="checkbox"/> For Sale: Miscellaneous	<input type="checkbox"/> Wanted <input type="checkbox"/> Carpools <input type="checkbox"/> Lost & Found <input type="checkbox"/> Services
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Check the heading applying to your ad. Print or type your ad in 20 words or less.

Ads concerning property for sale or rent cannot be accepted on this form. Special Real Estate Ad forms are available at the Office of the Brookhaven Bulletin, Room 111, 40 Brookhaven Avenue.

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 (Name & Phone No. To Call)
 Employee's Signature..... Life No..... Ext.....
 Send to: Brookhaven Bulletin, Building 460, 40 Brookhaven Avenue (Ext. 2345)