



About 500 BNL people went to a party last week at the Center. They were guests of the Laboratory in appreciation for their contributions to the outstanding success of the Energy Fair and Open House. Invitations were sent to over 1000 employees. Laboratory Director G.H. Vineyard

and Assistant Director R.C. Anderson spoke to the group from atop a forklift which hoisted them about 12 feet off the ground so that all could hear their thanks. Grounds Maintenance provided this unusual platform. —photo by Walton

New Type of "Atom" Discovered

A research group working at BNL's Alternating Gradient Synchrotron and headed by Professor Mel Schwartz of Stanford, have announced the discovery of a highly exotic type of atom composed of a charged pion bound through electrostatic attraction to an oppositely charged muon. These objects, dubbed pionium atoms by their discoverers, resemble the atoms of ordinary hydrogen but are about 100 times smaller in size. They originate as extremely rare decay products of the long-lived neutral K-meson (K^0_L), a subnuclear particle with a lifetime of 50 billionths of a second.

The constituents of pionium, namely the pion and the muon, are particles which are highly unstable and which normally appear only fleetingly as the result of energetic collisions between the more commonly occurring particles like protons and neutrons. The pion, for example, is one of the particles commonly thought of as the "glue" holding nuclei together; in its free state it survives for only about 20 billionths of a second before breaking into a muon and a neutrino. The muon behaves in almost every way like a heavy electron and its role in the scheme of things is one of the great mysteries of particle physics. (The muon is considered to be a relatively "long lived" particle with a lifetime of about two millionths of a second.)

The prime motivation behind the experiment lies in the fact that pionium provides a uniquely sensitive system for studying the

interaction force between a pion and a muon. Current theoretical thinking hypothesizes that this force is strictly electromagnetic in character; as a consequence all of the properties of pionium and its production rate are highly predictable. Any deviation from such predictions would then be indicative of an anomaly in the pion muon force and may offer a clue as to the nature of the muon.

A measure of the difficulty of the experiment is given by the fact that only one pionium atom was detected every ten hours. Although 27 percent of all neutral K-mesons (K^0_L 's) decay into a pion, a muon and a neutrino, only rarely do the pion and muon stick together. The calculated probability of their sticking together is only one in ten million; the experimental probability is currently being determined. All in all, twenty-one pionium candidates were found in the course of the experiment.

Further experiments at Brookhaven are planned by Professor Schwartz to gather more information about the new discovery which has been theorized but never before been observed experimentally until this time. The new discovery is another step in the research carried out at Brookhaven to develop a greater understanding of the basic structure of matter.

The research effort leading to this discovery was funded by the National Science Foundation through a grant to the Stanford High Energy Physics Laboratory.

Sun Power — The Way To Go

"In the long run, the use of sunlight will be the only way to meet our needs for energy without running afoul of serious environmental problems," is a conclusion reached by Roderick K. Clayton, Professor of Biology and Biophysics, Cornell University, who will present a lecture June 8, at 3:30 p.m. in Berkner Hall. Professor Clayton's lecture, "Photosynthesis and Solar Energy Conversion" is open to the public.

He will compare long term prospects and problems of systems for solar-energy conversion with those of other sources of energy. Various schemes for direct and indirect use of the sun's energy will be discussed, with special attention to those that

involve photosynthesis.

Professor Clayton is of the opinion that hydrogen will occupy a central position in many of these schemes for energy conversion. He also believes that the generation of



Roderick K. Clayton

fuel from organic wastes can be economically profitable now, whether or not this is combined with the waste-assisted growth of algae. Another of Professor Clayton's conclusions is that schemes to modify normal photosynthesis, or to use extracted parts of photosynthetic tissues, so as to generate hydrogen or electricity from sunlight, are more visionary than schemes to convert the heat of the sun directly to electric power. But, he says, they are probably less visionary than the attempts to sustain controlled nuclear fusion.

At recent hearings on a proposed bill to restrict the sale of aerosol sprays in New York State, he voiced his concern about anything that would threaten the protective ozone shield. "Although experiments have tested the extreme effect of a 50 percent depletion of ozone, even a slight breakdown in the ozone layer, resulting in only a two per cent reduction in crop yield, would be very serious. It is a terribly urgent problem," he said.

Professor Clayton received his Ph.D. degree from the California Institute of Technology in 1951. Before joining Cornell in 1966 he was engaged in teaching and research at several institutions one of which was Oak Ridge National Laboratory where he was a Senior Biophysicist from 1958 to 1963. Clayton's book "Light and Living Matter" was published by McGraw Hill.

His lecture is a feature of the Biology Symposium on "Chlorophyll Proteins, Reaction Centers and Photosynthetic Membranes," to be held at the Laboratory June 7-9.

Saturday Tours

June 5, 12, 19, 26
July 10, 17, 24, 31
August 7, 14, 21, 28

During the summer Brookhaven will continue its "open door" policy with mini-tours of the Laboratory on Saturdays from 10 a.m. to 4 p.m. beginning tomorrow. These guided bus tours will not be on the grand scale of the May 15 weekend, but will give visitors an impression of the scope and research of the Laboratory.

A showing of "Brookhaven's Quest" at Berkner Hall will introduce visitors to the work of this institution, following which they will board buses and tour the site. Tour guides will be on hand to explain the various facilities which may be viewed from the outside only.

A prolonged stop will be made at the Exhibition Hall, the home of the historic Brookhaven Graphite Research Reactor which was decommissioned in 1970. Visitors will now be able to view exhibits at all levels of the Hall. At Open House, only the first floor was accessible.

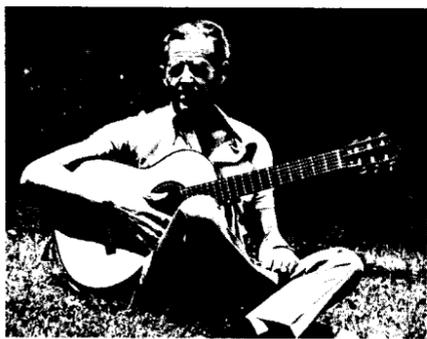
Demonstrations, exhibits and models will explain highlights of Brookhaven's research in high energy physics, chemistry, biology, medicine, oceanography, atmospheric sciences and energy technology. The Science Store will be open and some simplified scientific publications will be available.

The two energy conservation houses — one built of wood and one of masonry — will be open for inspection throughout the summer tours.

Richard Dyer-Bennet To Sing At Berkner

The first program of the summer sponsored by the BERA Concert Group will be presented Sunday evening, June 6 at 8:30 p.m. in Berkner Hall, when the renowned American singer Richard Dyer-Bennet will appear. Best known as a minstrel in the folk tradition, at Brookhaven Mr. Dyer-Bennet will sing "The Lovely Milleress," which is his own translation of the text of Schubert's great song cycle "Die Schöne Müllerin." He will be accompanied on the piano in this performance by Nancy Garniez. Next fall, he will present the same program at New York's Lincoln Center.

Born in England, son of a British army officer and an American woman, Dyer-Bennet's family moved to America while he was still very young. He began his musical studies at the University of California. He has toured the U.S. and Canada extensively and also given concerts in London and Rome. He has sung in every state, in-



Richard Dyer-Bennet

cluding Alaska and Hawaii — over 600 concerts in all — and has also made 25 albums of recordings.

Dyer-Bennet feels that, if he is still known a hundred years from now, it will be because of this translation of "Die Schöne Müllerin." While suitable for young adults, the program will probably not be suitable for young children.

Admission to the program will be \$3 for adults and \$1.50 for students and persons over 65.



Laboratory Director George Vineyard welcomed members of the International Energy Agency Steering Group on Energy Systems Analysis to Brookhaven last week. The Steering Group included official delegates from 16 nations and the Commission of European Communities who were here to review the organization of the work being undertaken by the IEA task forces set up at Brookhaven and at Julich, Germany. The next meetings of the Steering Group are scheduled for Paris in early September. —photo by Rosen

French Cheese Tasting

Roquefort, Brie, Boursin, Port-du-Salut, Le Banon — what do they have in common besides a French name? Simply that they all begin as milk, whether it be cow's, goats, or sheep's. Just as grapes can be transfigured into an infinite variety of wines, so can milk be preserved in the form of an incredible number of cheeses, with flavors and textures determined by the source of milk, the microorganisms with which the milk is inoculated, the conditions of aging and a certain amount of black magic.

If you would like an opportunity to sample a variety of French cheeses, plan to attend the cheese tasting to be held by *Le Cercle Français du BNL*. This way you can expand your taste experiences without the risk of finding in your refrigerator three pounds of something called "La Caprice de la Mer," made of manatee milk and unwanted by the whole family. In addition to an assortment of cheeses, bread and wine will be served as requisite accompaniments.

This event will take place in the Recreation Hall (Apartment Area), on Friday, June 18, at 8 p.m., and all members of the BNL community are cordially invited. Those who do not belong to the French Group will be asked for a contribution of \$3. Since cheese is perishable, we need to know how many plan to attend at least one week in advance. Please contact either Ralph Weston Ext. 4373, or Paulette Goodman 744-8449.

Arrivals & Departures

Arrivals

Walter F. Brooks Physics
 John C. Burdick Personnel
 Joseph J. Ciaccio Applied Science
 Craig R. Davidson Applied Science
 Paul G. Falkowski Applied Science
 G. Alanson Greene Applied Science
 Andy S. Kydes Applied Science
 Edward F. Landry Applied Science
 Hanna Maluszynska Chemistry
 Linda L. Moreno Safety & Env. Prot.

Departures

Paul D. Foglesong Biology
 Thomas K. Gaiser Physics
 Julia F. Johnsen Safety & Env. Prot.
 Ronald Withnell Chemistry

Bike Race This Weekend

The BNL Annual Spring Bike Race, slightly lengthened to 17.76 miles in honor of the Bicentennial, will be held Sunday morning at 10 a.m., with registration open at 9 a.m.

A good turnout is expected if the weather is good; heavy rain will mean postponement to the following Sunday, June 13. A registration fee is charged, and minors under 18 must have a parent's signature.

Bookmobile Ends Run

The Bookmobile, a small traveling library, which has been supplying books to on-site residents and Laboratory employees since 1964, will make its last stop here on June 25.

The Suffolk Cooperative Library System, which has been operating the service, says that the Bookmobile is not a mandated service by the State, and as the cost of operating it is greater than the amount received in State aid, it is being discontinued throughout Suffolk County as of June 30.

On-site residents should check with the Middle Island Public Library, the nearest to the Laboratory, about buying a non-resident card which will enable them to get books. This generally applies to the whole family. It is understood that there are also cards available for summer non-residents. Any books still outstanding when the Bookmobile makes its last visit may be returned to any library, or mailed to Suffolk Cooperative Library System, P.O. Box 187, Bellport, N.Y. 11713.

This service has been a boon to on-site residents and will be greatly missed.

Film Service 1-Day Sale

A special pre-paid mailer sale will take place at the BERA Sales & Services Office in the Cafeteria on Tuesday, June 8.

The following sale prices will be featured:

	Reg. Price	Sale Price
12 exposure prints	\$3.25	\$2.73
20 exposure prints	4.50	4.06
36 exposure prints	7.95	7.04
20 exposure slides	1.75	1.65
36 exposure slides	2.95	2.75
8mm movie film	1.95	1.80

ERDA Area Office Awards



John P. Jewett (right) Manager of ERDA's Brookhaven Area Office, presented awards to two ERDA staff members recently. From left, David Schweller received a \$350 Special Achievement Award from ERDA, principally for his outstanding work during the past year on the transportation of spent fuel elements from BNL. Ruth C. Neuss, chairman of the United Way campaign, received the United Way Award on behalf of the Brookhaven Area Office. —photo by Rosen

Official & Special Events

- Sunday, June 6
Concert
- Monday, June 7
Biology Symposium — Berkner Hall (7-9)
- Monday, June 14
Federal Executive's Seminar Tour
- Wednesday, June 16
BNL Lecture
- Thursday, June 17
Long Island Bone Metabolism Meeting
Long Island Recreation Association Tour
Concert
- Sunday, June 20
Father's Day

The Critic's Corner

A touch of history came alive at BNL last Friday evening when the curtain went up on the BERA Theatre Group's Bicentennial production of *The Devil's Disciple* by Bernard Shaw.

The Dudgeon family seemed more interested in the reading of the will than they did in the conflict between the Americans and the British. However, did the young rebellious Richard Dudgeon surrender himself to the British knowing he could face the hangman's noose because of his political beliefs, out of love for the minister's wife, Mrs. Anderson or was it due to the curse of his dying mother? Did the people concerned with the death of Richard remain complacent or did they take up arms against the British to save him?

Fine performances on the part of the entire cast coupled with the bicentennial theme make *The Devil's Disciple* a must see. The last two performances are tonight and tomorrow night at Stage II. Curtain again rises at 8:30 p.m.

—Audrey Blake



For ten years the Cross Section Evaluation Working Group has been meeting at Brookhaven. At their recent meeting, awards were presented by Philip Hemmig, ERDA (second from left) to 17 members who had been present at the first session in June 1966. Among those who received the awards were J. Richard Smith, Aerojet Nuclear Co. (left); Bowen Leonard, Battelle Northwest (second from right); and Sol Pearlstein, DAS, Chairman of the Group.

Bicentennial Calendar June

- Now — June 17
Exhibit of American Paintings on loan from The Heckscher Museum, at Berkner Hall.
- June 4-5
Last two performances "The Devil's Disciple," BNL Theatre Group, 8:30 p.m., Stage II. Tickets \$3, \$2.
- June 5
Bicentennial Ball, a colonial meal and punch bowl, Montford Hall, S. Saxon Ave., Bayshore, 8 p.m. \$12.50/person. Reservations only. Tickets, Box 1776, Sayville, N.Y. 11782.
- June 5-6
Colonial Crafts Festival and Fair, 10 a.m. — 5 p.m. Demonstration of 18th century L.I. folklife and crafts at Forsythe Pasture, Stony Brook. Free parking "P" lot at SUNY, Stony Brook — shuttle buses to Pasture. Admission \$2 adults, \$1 children 6-12 and Sr. citizens. Rain dates 6/12-13 or 6/19-20.
- June 6
American singer Richard Dyer-Bennet will sing "The Lovely Milleress," his translation of Schubert's "Die Schöne Müllerin," 8:30 p.m., Berkner Hall. Admission \$3, \$1.50.
- June 11-12
Spring Race Series of the Off Sounding Club to rendezvous in Dering Harbor at night and race in the waters of L.I.'s East End each day of annual New England offshore race.
- June 12
Miller Place Bicentennial Celebration, parade, fair & displays.
- June 12-13
Suffolk County Bicentennial Exhibit Train makes its debut at Huntington. This traveling museum will tour Suffolk County through September. Scheduling will be announced in local papers.
- June 19
Military Encampment and Reenactment. Display & demonstration of life style and tactics of soldiers of American Revolution. Brookwood Hall, Irish Lane, E. Islip. Check newspapers for time.
- June 19
Gala Bicentennial Parade, Town of Smithtown.
- June 19-20
Old Whaler's Festival, international teams in Whaleboat Rowing Competition, Sag Harbor.

BROOKHAVEN BULLETIN

Published Weekly for the Employees of Brookhaven National Laboratory

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Letters To The Editor

Dear Sirs:

On May 16, 1976 we accompanied a group of our students to Brookhaven for the purpose of touring the laboratory facilities and viewing the various exhibits. We found the visit to be highly informative and enjoyable. The students particularly enjoyed speaking with the researchers about the displays. We deeply appreciate the effort put forth by the laboratory, and are already eagerly anticipating a visit in 1977.

Thank you for allowing us to visit the laboratory and for making us feel so welcome.

Sincerely,
Gail Gerald
Dina Scacchetti
Union Hill High School
Union City, N. J.

Hospitality Committee

The morning coffee will be held on Tuesday, June 8, from 9:30 to 11:30 a.m., at the Brookhaven Center. Babysitting will be provided as usual, at no cost.

Mrs. Dimmler has arranged for an armchair trip through Germany via a special film. Please come.

Upton Nursery School

The Upton Nursery School is now accepting applications for enrollment in our September classes.

Our school is a cooperative nursery school for three and four year old children of all Laboratory employees, residing on or off site.

The children attend school two or three mornings a week and participate in a varied program including art, music, outdoor activities and field trips.

Our teachers are professionals and our classes are small enough to give each child individual attention. Parents cooperate in the running of the school and assist the teachers at each session. This enables us to keep our tuition fees low.

For further information regarding our school please call our enrollment chairman, Linda Lynn 924-8329.

Tennis Team

A tennis team representing BNL is competing this summer in the Long Island Industrial Recreation Association men's doubles league. In the first match of the season on May 24, BNL defeated Republic by a score of 53-18. In individual matches, J. Elmore and A. Rosenberg defeated Standing and Montagna 6-1, 6-4, 6-1; A. Auskern and A. Kevey defeated Bannon and Henn 6-1, 6-0, 6-3; and T. Koetzle and L. Passell defeated Foster and Gilio 6-0, 6-3, 7-5.

Participation in the team is open to all Laboratory employees and visitors with Laboratory appointments. The season will run through the first part of September. Anyone interested in joining should contact Tom Koetzle, captain Ext. 4384, or Andy Kevey, co-captain Ext. 2424.

Runners' Corner — Another Challenge

The Rocky Point Joggers have challenged the BNL Runners to a three-mile cross country run on Saturday, June 5.

The Rocky Pointers will have at least ten runners. Therefore, to be competitive, the Lab will need an equal number. The race starts at 8:30 a.m. (sign-up to 8:00 a.m.) at the Rocky Point High School, 1/2 mile south of the Jack-In-The-Box on 25A).

There will be no prizes, only the thrill of competing on the toughest, roughest high school course in Suffolk County.

All interested BNL runners please contact Gus Prince, Ext. 2901 or Bill Thomlinson, Ext. 3978.



Red League (Sandbaggers): Arthur Dick, Bob Jones, Ken Riker, Charlie Bohnenblusch. Edward and Robert Meier were not present for the picture.



Pink League (Pinsplitters): Marge Stoeckel, Grace Fales, Rosalie Piccione, Renie Rosati, Beverly Nine.



Purple & White League (Flounders): Marge Belligan, Ben Belligan, Lorraine Petro, Jim Petro.



Green League (Blue Jays): Fred Stahman, Daniel Stelmaschuk, George Schuette, Herm Haller, Harold Marshall. John Berech and Bill Crockett were not present for the picture. —photos by Rosen

Bowling Awards Party A Big Success

Thanks to the outstanding planning and work by co-chairpersons Irving Montanez and Marie Brenner, this year's bowling awards party was, as many satisfied bowlers said, "the best ever."

Awards were presented by Bob Fuchs, Awards Committee Chairman, Ken Batchelor, BERA Board President and Blanche Laskee of the Personnel Division.

First place winners of all Leagues are pictured. The sandbaggers, Red League winners, also rolled their way to victory as the 1975-76 Champions.



Black 'n Blue League (Question Marks): Debbie Antonio, John Ferrero, Terri Blackman, Iride Ferrero. Richard Kalinowski was not present for the picture.

New Tennis Court Rules

Due to the increased interest in the sport of tennis, and the increased use of our tennis courts, the Tennis Committee has set up the following rules effective June 1, 1976:

1. Courts 1, 2 and 3 will be used strictly on a reservation basis for weekday play. Reservations can be made at the BERA Sales Office in Berkner Hall during the hours 7:30 a.m. to 11:15 a.m., and 11:45 a.m. to 2:30 p.m. Reservations can be made 1 day in advance. Play is limited to 1 1/2 hours for both singles and doubles.

2. Courts 4, 5 and 6 will be on an "open" basis, although play is limited to 1 1/2 hours for both singles and doubles.

3. Sneakers are to be worn at all times on the courts. Proper tennis apparel is desired.

4. Non-employees should yield to Laboratory employees from 11:00 a.m. to 2:00 p.m., and 4:00 p.m. to 7:00 p.m.

Any disputes resulting from these new rules may be reported to the Tennis Committee Chairman, Ed Platner, Physics Department, Ext. 3922.

Tennis Doubles Ladder

There has been enough murmuring of interest to warrant looking seriously at the numbers who would wish to play ladder competition in men's and women's doubles.

Interested pairs should contact Tom Koetzle, Ext. 4384 (men) or Gail Williams, Ext. 3338 (women) by June 9, so that play could be established from June 14.

It's Cricket!

... that most splendid and boring of British games (made famous in America by Monty Python).

An informal league is being formed for beginners and old hands, friends and families, to enjoy that social occasion for which the cricket match is merely an excuse.

A meeting will be held at 12:15 p.m. in Room C in Berkner Hall on Tuesday, June 8, to discuss plans and to explain the game's mysterious rules and tradition. Bring your lunch. For further information call Debu Majumdar, Ext. 2633 or Ed Beardsworth, Ext. 2032.

Cafeteria Menu

Week Ending June 11, 1976

Monday, June 7	
Tomato Bouillon Soup	
Broiled Chicken Livers & 1 veg.	1.15
Creamed Ham & Noodle Casserole	1.15
Tuesday, June 8	
Cream of Chicken Soup	
Chopped Steak & 1 veg.	1.05
Chinese Pepper Steak on rice	1.25
Wednesday, June 9	
Saga's June 1976 Salute to the State of South Carolina	
Cup of Okra Soup	
Shrimp Creole w/Rice & 1 veg or Baked Ham w/Baked Pineapple & Banana & 1 veg.	
Choice of Pie or Ice Cream	
Small Beverage	\$1.87 plus tax
Thursday, June 10	
Puree of Mongol Soup	
Short Ribs of Beef & 1 veg.	1.30
Spanish Omelet & fr. fr.	1.10
Friday, June 11	
Clam & Celery Soup	
Seafood Cakes & Spaghetti	1.05
Pot Roast & 1 veg.	1.30

Selected Reading

- New Sci. 69, April 8, 1976
Novel cement for Cologne Cathedral. G. Senéviratne. 62-3
- Bull. At. Sci. 32, May 1976
Atoms for lease. H.M. Agnew. 23
Flower power: Prospects for photosynthetic energy. A.D. Poole and R.H. Williams. 48-58
Tower power: Producing fuels from solar energy. M.J. Antal, Jr. 58-62
- IEEE Spectrum 13, May 1976
Nuclear power plant safety. Pt. II. A former NRC engineer/inspector lists problems at Indian Point; utility engineers and government staff members respond. G.D. Friedlander. 70-5
- Sci. Gov. Rep. 6, May 1, 1976
Agreement reached on new White House Science Office. 5-6
- Science 192, May 7, 1976
The impact statement boondoggle. D.W. Schindler. 509
- Science 192, May 21, 1976
Scientists' rights: Academy adopts "affirmation of freedom." B. J. Culliton. 767-9

Rifle/Pistol Club Meeting

The BNL Rifle/Pistol Club final meeting before the summer break is scheduled for Wednesday, June 9 at the Recreation Building.

All members are urged to attend. The new membership year plus team activities will be discussed.

Softball News

Ed Taylor

League I

Old Timers 9 — Blue Jays 7

Tom Petty, manager of the Old Timers, said his team played very shoddy in the field, but managed to salvage a 9 to 7 verdict over the Blue Jays. "Little Big Man," Bobby DiLello, had a homerun for the Old Timers.

Hawks 6 — Ravens 4

Good defense by both teams, with timely hitting by the Hawks being the difference, was displayed in this contest. The Hawks scored three times in the top of the first inning and hung on to earn the victory. Jerry Quigley went 3 for 4 and had 3 RBI's for the winners. Ed Taylor had a 2-run homer in a losing cause.

League II

Six Pax 5 — Dirty Sox 4

Good defense was the feature of this game, as both teams played well in the field. It is too bad there had to be a loser. Chuck Carlsen had a triple for the Six Pax.

Metallurgy 14 — Bubble Boys 2

The Bubble Boys were outgunned in this contest. Metallurgy unleashed a well balanced hitting attack as they really put it to their opponent. The victory was an all-around team effort and was sparked by the 6-hit pitching of Bob Jones.

League III

Circuits 13 — Medical 3

No highlights were available.

Phoubars 7 — Shoreham Sweathogs 6

The "old" Phoubars, after moving up to League III, pulled a stunning upset in 10 innings over the "young" Shoreham Sweathogs. The winning run came on a single by Jack Brennan in the bottom of the 10th.

League IV

Streakers 24 — Nuke Powers 1

The Nuke Powers had a pitching problem in this game as their pitcher issued 11 walks in the lopsided affair. His counterpart, George Speidell of the Streakers, was very stingy, giving up only one run while striking out three batters on swinging third strikes. Mike Bannon had a grand slam homer for the winners.

The game between the Charlie Browns and the Power Packers was postponed because of Lab business by the C.B.'s. Next time they are scheduled to play the game will be a double header.

(Continued on Page 4)

Softball

(Continued)

League V

Oh Kays 19 — T.N.T. 1

The Oh Kays, last year's Mixed League champs, picked up where they left off. Even though the team was missing a couple of retirees from last year's team, Jim Garrison and Helen Caisey, and two players who are not playing this year due to injuries, Ruth and Vernon Faine, they still displayed a potent attack and sound defense. Two rookies on the team, Debbie and Howie Antonio, showed great promise as they hit the ball hard and led the hitting attack. Newcomer Fletcher Johnson is no Jim Garrison at shortstop, but I guess he'll do. By the way — Leroy James struck out in this game, "K."

Diamonds 7 — Turkeys 5

The Diamonds, a team that played well last year and looks ready to challenge the Oh Kays for the top spot, defeated another up and coming team, the Turkeys, 7-5 on Ken Asselta's 2-run homer in the 7th inning. Sharon Smith went 3 for 3 and made a good place as she caught a foul pop behind the plate. Janet Helmig went 3 for 4 for the winners.

The game between the Odd 15 and the Balls & Strikes was postponed. It will be made up as part of a doubleheader the next time they are scheduled to meet.

Oh Kays 19 — Balls & Strikes 15

This game started out like a run-away victory for the Oh Kays, but the Balls & Strikes had other notions. After leading 8 to 0 for a couple of innings, the Oh Kays fell apart and soon found themselves in a 10-10 tie. From there it seemed that both teams scored at will as the hard hitting increased for both teams and the good fielding was gone completely. In the long run it was the determined play of the girls on the Oh Kays — Kay Hunt, Rosemary Mack, Debbie Antonio, Sydell Lamb and Jean Hamilton — that made the difference. George Morgan had a couple of homeruns for the Balls & Strikes. Hubbard and Nancy Harris played good ball for the losers.

Diamonds 7 — T.N.T. 6

For the second week in a row the Diamonds got a last inning score to ice the game for them. This time it was Denny Klein with a game winning triple. "Fleet" Ted Erickson also legged out a homer for the winners. Ron Weider had a perfect night at the plate going 3 for 3.

Turkeys 19 — The Odd 15 - 10

Glenn Snape pitched a good game for the Turkeys and received adequate hitting support from Sol Pearlstein (homerun) and Mike Losquardo (2-run homer and a couple of singles).

Classified Advertisements

Placement Notices

Each week the Personnel Office lists personnel placement requisitions, currently being processed. The purpose of these listings is, first, to give notice of all non-scientific staff positions being filled and, second, to give employees an opportunity to request consideration for themselves through the Personnel Office. In filling vacancies, the Laboratory's objective is to give first consideration to present employees, as follows: employees within the immediate group having the vacancy, employees within the department or division, employees within the Laboratory as a whole.

For further information regarding a placement notice, or to request consideration for an available position, contact Supervisor, Personnel Placement & Development, extension 2874 or 2882.

117. COMPUTER SCIENCE ANALYST - BS degree or equivalent in computer science or mathematics and digital computer programming experience. Position involves development, processing and transfer of computer models between different hardware systems. Experience in optimization and simulation modeling desirable. Energy Analysis Division. Department of Applied Science.

118. OFFICE SERVICES ASSISTANT - Temporary position. Photography & Graphic Arts Division.

119. TECHNICIAN - Temporary position. Safety & Environmental Protection Division.

120. TECHNICIAN - AAS degree or equivalent in chemistry/metallurgy and experience in mechanical technology. Assignment involves construction of gas-flow circuits, loops, and vacuum systems. Department of Applied Science.

121. SUPERVISOR - Will be responsible for all phases of first-line supervision and coordination of work for employees in cabinet making, sign painting and related crafts. Buildings Maintenance Group. Plant Engineering Division.

122. OFFICE SERVICES ASSISTANT - Temporary position. Technical Support Organization. Department of Applied Science.

Autos & Auto Supplies

75 DODGE - Monaco wagon, roof rack, speed control, green metallic, 37,000 mi. 289-5867.

69 VW BUG - Rebuilt engine, new clutch & muffler, 65,000 mi, mag wheels, clean body. \$950. Dana, 924-3697.

67 PLYMOUTH - 8 cyl, runs well. \$250. 878-2702, Ext. 3992.

72 MGB GT - Good cond, less than 4000 mi on eng, needs body work. \$1000. 744-4207.

74½ HONDA 360 CC - Must sell, excel cond, garaged, never raced, low mi. 928-5199 after 5.

TIRES - Steel radials. 281-5563.

74 DATSUN 610 - 4 dr sedan, ac, am/fm, reclining bucket seats, 110 hp, new steel radials, excel cond, must sell. \$2950. 744-2404.

69 VW - Blue, clean car, in good cond, r&h, \$700 firm. 475-7539 after 6.

76 MUSTANG II GHIA - 4 cyl, 4 spd, sunroof, chrome wheels, luxury group, am/fm 8 track, many extras. \$4800. 758-9733 after 5.

64 MGB - Operative, but best for parts. \$110. Steve, Ext. 2019.

73 VW BUG - Very lo mi, cream puff. \$1800. 727-5527 eves.

74 SUZUKI - TM 125 MX, good cond, dirt bike, must sell. \$350 firm. Frank, Ext. 4095.

RIMS - (2) 15" VW, \$5; (2) 13", \$3. O. Booker, Ext. 4719.

69 CHEVY CAMARO - Vinyl roof, 350 engine, 8 cyl, stick shift. \$1200. 234-0288.

69 FIREBIRD - 350 engine, ac, ps/pb, racing mirrors, vinyl roof, low mi, excel cond, must be seen. \$1800. 589-1069 after 6.

VW REBUILT MOTOR - Assorted new parts, hub caps, etc, very reasonable. Audrey, 475-7272.

Boats & Marine Supplies

VENTURE OF NEWPORT - 1975, 23' cutter, sleeps 5, retracting keel, galley, dacron sails, outboard, pop top, custom trailer. George, Ext. 4592.

16' LONE STAR - Fiberglass, 1970, 40 hp Johnson engine. 286-0623.

16' FIBERGLASS - W/75 hp Johnson. \$550 or best offer, good cond. 924-6348.

18' COBIA - 1967 fiberglass, 120 hp Merc in/outboard, anchor, lights, cushions, trailer. Don, 286-0151.

19' CARAVELLE - In/outboard, 1974 fiberglass, Merc cruiser 888, excel cond. Asking \$4500. 878-2653.

34' BALTZER - 1958, twin Chrysler eng, camper back, just in time for summer fun! 331-1718.

Miscellaneous

BEDSPREADS - 2 kingsize, 1 wash & wear, \$20 & \$15; electric fans, 2-20", 2 spd, \$10 & \$7. Ext. 3925.

19" B&W TV - Portable, \$25. 727-1329.

MATTRESS - Brand new & unpacked, full size, orig \$59, sell at \$49 because of wrong firmness. 698-0013.

2 TICKETS - Calgary Stampede, July 9, free to anyone who can use them. Al, Ext. 4172.

SOFA BED - Twin size, \$50. 929-6976 eves.

OVEN & STOVE - Kenmore double wall oven & counter top stove, gas, coppertone color. \$175. 283-2390.

TENNIS RACKET - Hart professional aluminum, excel cond. \$30. 744-6399 after 5.

WING BACK SOFA - Early American, 84" long, sturdy frame, needs reupholstering. \$40. Dick, Ext. 3910, 732-7564.

BICYCLE - Girl's Raleigh chopper, 3 spd, banana seat, sissy bar, white, like new. \$80. Bob, Ext. 4637, 692-8659.

DINETTE - Blonde mahogany, 4 upholstered chairs, china & buffet. \$300 or best offer. C. Eterno, 929-6172.

LEICA - Screwmount lenses, 35 mm F3.5 W.A. Summaron; 50 mm F2 Summarit; 90 mm F4 Elmar. \$60 ea. Frank, Ext. 2410, 281-7113 eves.

BASS GUITAR - Gibson EB 2 electric. \$150. 878-4513.

ARMSTRONG FLUTE - New. \$125. Ext. 3084.

REMINGTON TYPEWRITER - Office model, 15" carriage, good cond, manual. \$40. Ext. 4058, 286-0436.

FREE - 2 lovable black kittens, 10 wks old. Ext. 2874, 289-8459 after 5:30.

ORGAN - Wurlitzer Centura model 805, many extras, superb cond. \$3600. Denise, Ext. 2926, 585-9816.

POP UP CAMPER - 1973 Starcraft, sleeps 8, immaculate, stove, sink, refrig, 2 tables, flush toilet, heater, other extras. \$1500. 929-6788.

WALL DESK - W/sliding door, book shelf & fold down desk top. \$25. Ext. 2041.

FREE - 6 storm sash made into collapsible cold frames for starting plants, you pick up. 589-3269 after 6.

TRAVEL TRAILER - 1972 Argosy by Airstream, 22' tandem axle, full self-contained, sleeps 4, carefree awnings, excel cond. \$3800. Leo, Ext. 3498, 286-8242.

YORKSHIRE TERRIER - Male puppy, 15 weeks old, AKC shots, health certificate, very small, sound, sturdy. Ext. 2902, 475-2627 eves.

MAYTAG WASHER - 1975, 6 lb load. \$175. 722-3163.

TRAILER AXLE - Leaf springs & channel attachments, complete w/trailer, coupler for possible homemade trailer. \$8. Ext. 2485.

WATER PUMP TANK - Havard, glass lined, new 42 gallon capacity. \$80. George, Ext. 4308, 698-6051.

6 HP RIDING MOWER - New grass catcher; 2 maple end tables, 1 cocktail table, card tables; child's rocker. 286-0376.

HOT DOG TRAILER - Sewing machine; baby crib & dresser. 325-0710.

REFRIGERATOR - 14 cu ft Sears, 9 yrs old, good cond, left handed door. \$75. Ext. 4547.

DEEP WELL PUMP - Sears 1½ hp 3 stage, now have city water. \$75. Ext. 4547.

TRAVEL TRAILER - 1974 24' La Strada, full bath, self-contained, sleeps 8. 281-7485 after 5.

BICYCLE SEAT - Child's riding seat for adult bicycle. \$7. Ext. 2485.

SPEAKERS - Soundesign, 10 watt, 2 way, like new. \$35/pair. 924-6348.

SIAMESE KITTENS - Seal Point, 2 male & 1 female, ready for new homes now. \$20. Carroll, 744-5093.

OSCILLOSCOPE - EICO 460 Heathkit test chassis model EF-2, all manuals, all brand new. \$125. Paul, Ext. 2023.

EICO 565 - Volt-Ohm milliammeter, never used, list price \$49.95, sell \$35. Paul, Ext. 2023.

CB ANTENNA - 102" stainless steel whip w/spring. \$10. Paul, Ext. 2023.

OIL BURNER PARTS - New & rebuilt, parts & controls, large assortment. O. Medick, 363-7324.

MADRAS JACKET - Light weight, size 38, never worn. \$15. 286-3742 eves.

PRINTING CALCULATOR - SCM Marchant, multiply, divide, memory, 2 storage registers, adj decimal, orig over \$1000, factory recond, \$250. Curtiss, Ext. 4608.

DINING RM SET - Contemporary Drexel, walnut table, 2 leaves, custom pads, 6 chairs, buffet, excel cond. \$450. Phil, Ext. 4518, 751-9038.

KODAK CAROUSEL - Auto focus, slide projector w/F3.5 zoom lens Ektenor. \$120 firm. Fran, Ext. 3725.

MEN'S 10 SPEED - Raleigh grand prix. \$125. 473-0178.

WATER PIC - Model 37. \$10. Ext. 4240, 286-0295.

CARPET - 12'x20', beautiful green, foam rubber backing. \$55. Ext. 4240, 286-0295.

SOFA - Med sectional, 2 chairs, blue velvet. 234-4205 before 4.

HANGING BASKETS - Ivy, geraniums, other assorted house & outdoor plants. Bill, Ext. 4774.

2 LAMPS - 2 end tables, sleeper couch, dry sink, rocker. Doris, 581-4318 after 5.

STEREO - Sears Silvertone, am/fm stereo radio, phonograph, contemporary cabinet. \$65. E. Turner, Ext. 2456.

75 TRAVEL TRAILER - 19', sleeps 6, fully self-contained, heater, 4 burner stove, 6 cu ft refrig, tandem wheels, separate bath w/shower stall. Asking \$3800. Ellie, 2978, 369-2526 eves.

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

CALVERTON - Near expressway Exit 69, ideal for children, 9 rms, secluded, ¼ acre, low taxes. \$33,000. 727-0322.

PATCHOGUE VILLAGE - 3 bedrm ranch, most appl, country kitchen, expansion attic, finished basement. \$34,000. Ext. 2290, 475-7694.

EAST MORICHES - 150 yr old renovated school house, 3 bedrm, 1 acre, garage w/loft. \$45,000. 878-4184.

WADING RIVER - 3 bedrm ranch, new well, all appl, paneled, 1.8 acres. Helen, Ext. 3415.

CUSTOM CAPE - 6 min to Lab, Middle Is School Dist, shake shingles, garage, full basement, 5 rms & bath down, 2½ rms up, partially finished, s/s, w/w carpet, ac, ½ acre. \$35,500. Ext. 3461.

MASTIC BEACH - Water view, 3 bedrm ranch, Franklin fireplace, garage, wooded property, 100x100, fenced, private dock. \$30,990. Mr. Daniels, 281-6692.

PORT JEFFERSON - Custom 3 bedrm ranch on 1 acre, eat-in-kitchen, deck, full basement. \$59,900. 928-7168 after 6:30 Mon-Fri.

1 ACRE POCONOS - Water, elec, horseback riding, skiing, swimming, tennis, priv comm unit, gate guard. Ext. 3870, 732-3003.

BELLPORT - 5 bedrm raised ranch, 1½ baths, attached garage, large garden, deck. Osgood, Ext. 3978, 286-2561.

Classified Ad Policy

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

- The Brookhaven Bulletin's classified section may be used only by active and retired Laboratory employees.
- All items for sale or rent must be the advertiser's property.
- Ads for material acquired for resale in association with a full or part-time business cannot be accepted.
- Firearms offered for sale or trade may not be brought on site.

- Ads not carried because of space restrictions will be held for publication in the next issue.
- Ads are run only once and must be resubmitted if they are to be repeated.
- Ads should be restricted to 20 words or less and typed or printed on the form provided, and must bear the employees signature.

- For Sale: Auto & Auto Supplies
 For Sale: Boats & Marine Supplies
 For Sale: Miscellaneous

- Wanted
 Carpools
 Lost & Found
 Services

Check the heading applying to your ad. Print or type your ad in 20 words or less.

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

(Name & Phone No. To Call)

Employee's Signature..... Life No..... Ext.....

Send to: Brookhaven Bulletin, Building 460, 40 Brookhaven Avenue (Ext. 2345)