

Tandem Tops Earlier Record

A major improvement of the Brookhaven Tandem Van de Graaff capabilities has just been completed, making ours the most powerful electrostatics accelerator facility in the world at present.

This development, which started about one year ago, consisted of the design and installation of a new ion source system in the injector Tandem and the upgrading of this accelerator with new acceleration tubes, improved column connections, new belt guide configurations, SF₆ insulating gas mixture, etc. The new ion source system more than triples the number of ion species available for three-stage acceleration and the upgraded injector, together with the earlier upgrading of the second Tandem, opens many possibilities for new and exciting experiments.

On Monday, September 13, three-stage beams were accelerated for the first time with this new system and several new energy records for electrostatic acceleration were established. The highest energy reached was a 255 MeV copper beam, to be compared to the previous record (also ours) of 200 MeV nickel beams. Other beams accelerated during these tests were 200 MeV ³²S and 95 MeV ¹²C, the highest energies ever achieved by electrostatic acceleration for each of these ions.

These S and C beam energies are sufficient to overcome the uranium Coulomb barrier, and thus nuclear reaction experiments, with any conceivable target, become possible. The copper beam energies are high enough to perform such experiments with any target up to ten. This is also a considerable extension of the previous capabilities.

The electrostatic acceleration of light and heavy ions has several advantages over other methods of acceleration. Some of those advantages, which are of importance for the type of experiments performed with these machines, are extremely stable and easily variable energies, DC beams that can be tightly focussed, and a completely unmatched variety of easily selectable ion species. Other important features are simple operation with a minimum of personnel and relatively low power consumption.

The continuous support, interest, and encouragement received from the former Physics Department Chairman, Joseph Weneser, from the present Chairman, Nicholas Samios, and from ERDA's Division of Physical Research made this devel-



In front of the Tandem machine that reached record energies this week are the principals involved in that success. From left are Mike McKeown, Ted Robinson, Peter Thieberger, Mario Manni and George Schwender.

opment possible. The whole Tandem Operations and Development Group, with Peter Thieberger as Group Leader, worked very hard and enthusiastically on this project. They received invaluable help from the User Support Group and from the Machine Shops. Special mention should be made of Mike McKeown, who had the direct responsibility for the ion source system developed and who originated and implemented many of the concepts that have now proven to be so successful; Ted Robinson, whose ideas, computer expertise, enthusiasm, and hard work were invaluable; George Schwender, who had the difficult and important task of implementing the design of highly reliable electron systems to operate under adverse conditions in a very limited space; and Mario Manni, whose

contribution in the form of expert mechanical design and Shop supervision was also invaluable. Chuck Carlson was mainly responsible for the supervision and execution of the tube, column, and belt upgrading and he received help and support from the entire operator crew under the supervision of Bob Lindgren, who, as always, contributed many important ideas and good suggestions.

With the recent improvements of our facility we can look forward to continued leadership in providing high energy ion beams for use by Brookhaven scientists and by outside users. Plans now under consideration for major new facility developments should enable Brookhaven to continue playing this important role in the future.

A Chemistry First

The First International Symposium on Radiopharmaceutical Chemistry will get underway at Brookhaven next week. Approximately 200 scientists will attend the sessions, September 21-24, which will focus on the research in chemistry and biochemistry necessary for providing a sound basis for future developments in utilizing radioactive and stable tracers in the medical field.

According to Alfred P. Wolf, Chemistry Department, who is chairman of the symposium, "the emphasis in this first meeting will be on chemistry, ranging from basic problems in nuclide production to problems in analytical control presented by nuclides of different half life and decay properties."

An interest in bringing together scientists involved in the basic research aspect of radionuclides and labelled compounds led first to the formation of the International Founding Committee about a year ago. The Committee, consisting of ten prominent scientists from various research institutions around the world, then developed the arrangements for this first meeting.

The banquet address on Tuesday evening will be given by The Honorable John B. Anderson, Congressman from Illinois. Mr. Anderson, Chairman of the House Republican Conference, is a Member of the Rules Committee and is ranking Republican Member of the Joint Committee on Atomic Energy. His subcommittees include ERDA - Nuclear Energy, Nuclear Regulations, Environmental Safety, Legislation, and Agreements for Cooperation.

Dr. William Myers, University Hospital, Columbus, Ohio, will be the keynote speaker on Wednesday evening.

Brookhaven speakers include Vito Casella, Joanna Fowler, Richard Lambrecht, Chemistry Department; and Louis Stang and Suresh Srivastava, Department of Applied Science.



Congressman John B. Anderson

The extensive program will include morning and afternoon sessions on Tuesday, Wednesday and Thursday, an evening session on Thursday and a Friday morning session. All the meetings will be held in Berkner Hall.

Official & Special Events

Tuesday, September 21

First International Symposium of Radiopharmaceutical Chemistry (21-24)

Monday, September 27

Workshop on Environmental Effects of Synthetic Fuels (27-29)

Tuesday, September 28

Long Island Communicators Association Meeting

Wednesday, September 29

BNL Lecture - Berkner Hall

Thursday, September 30

SUNY at Stony Brook Graduate Physics Student Tour

What Is It This Year?

Keep November 7 open for another BERA very Special Event!

BNL Team Starts Testing Of Ocean Cask

On Monday, scientists got a look at an 80-gallon container of nuclear wastes that had been reposing in the briny deep for the last 20 years. There was general agreement that, as far as the eye could tell, the 17 gauge steel container seemed remarkably well preserved. There was some encrustation of clay and some corrosion, but overall, it still had a sturdy appearance.

The drum had been retrieved from a depth of 9,800 feet in the Atlantic Ocean at the request of the Environmental and Protection Agency (EPA) and brought to Brookhaven on August 6, for analysis and testing. EPA is trying to determine the feasibility of a program to permit controlled ocean dumping of wastes. For this purpose, it has authorized the study of some containers of nuclear wastes deposited in the ocean during the 1940's and '50's. Ocean dumping was discontinued in 1962.

The drum has been maintained under argon gas atmosphere from the time it was brought aboard ship until the testing began in the Hot Cell of the Process Technology Division (HIRDL). This removed oxygen and prevented further corrosion. The package actually consists of three containers. As soon as it was brought out of the sea, the cask was placed in a heavy gauge steel container of the kind used to ship jet engines, and brought to the Laboratory. On Monday when technicians unbolted this container, the 17 gauge steel cask, still in good

shape, was revealed. The cask, in turn, is filled with concrete in which another container enclosing some of the wastes is embedded.

In order to determine the location and size of this third container, radiographs were taken. Pinpointing this container is important, because a crucial step in the



Walt Becker (left) and Peter Colombo examine a radiograph of a section of the cask.

process is to bore into the concrete and remove a sample, and no one wishes to inadvertently bore into the container. After testing the concrete sample for radioactivity levels and durability, the concrete will be broken apart and the container removed intact. Its contents, expected to be cobalt⁶⁰ and resins, will then be analyzed.

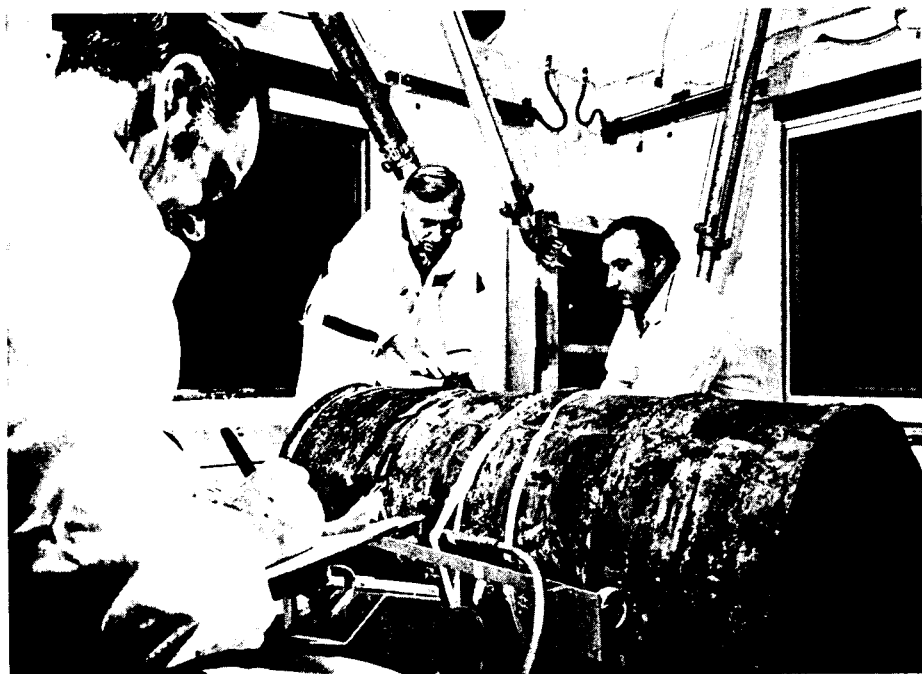
According to Peter Colombo, group leader of the Radioactive Waste Research program, the radiographs have located a cylinder approximately 45" long, with a diameter of 6", flanged with bolts on one end and welded on the other. Although some members of the team have been practicing coring on a dummy container "so that we won't be going in blind when we tackle the real thing," the real coring won't take place for another couple of weeks.

Right now various areas of the container are being photographed prior to samples being taken for testing by the metallurgists.

At the time of disposal, markings giving information about the cask were inscribed in concrete at one end. Apparently, this particular container consists of wastes from research work done at the Edgewood Arsenal in Maryland. Before proceeding further, Colombo says that meetings will be held with the EPA and the Army.

One marking at the end of the cask reads MR/HR/S-40 which, according to Bob Neilson, a member of the DAS team doing

(Continued on page 2)



The cask containing nuclear wastes, as it appears after 20 years immersion in the Atlantic Ocean, is looked over by health physicist Al Lukas (left), Ed Divis and Bill Vogel of the Radioactive Waste Research program.

Ocean Cask (Continued)

the analyses, probably means 40 millirems per hour at the surface. Present readings of the cask now measure one to three millirems per hour at the surface.

This is the first time that one of these containers has been examined since they were "deep-sixed" many years ago, but it may not be the only one to be examined. According to Colombo it is quite possible that EPA will request the retrieval of other ocean casks for testing and analysis. If so,

the original recovery team will be ready to go into action again. Besides Colombo, that unit includes health physicist Al Lukas, Walt Becker who gave expert technical assistance and Don Huszagh who made sure they had all the right equipment.

But for the present there is still a great deal of information to be gathered and a full report on this particular project is not expected to be available for another six months.

English Course Offered

A course entitled "English as a Second Language" is being offered at the Laboratory this fall to employees and guests and their immediate families. The program is designed for adults who wish instruction in speaking, reading or writing the English language. Persons who are entirely unfamiliar with English, as well as those who wish to improve their skills in a particular area, can be accommodated.

Classes will be held from 7 to 9 p.m. each Thursday evening for ten weeks, beginning October 14, in the Meeting Room of the Staff Services Building, 2 Center Street. The cost of the course, which is being presented through the Middle Island School Adult Education Program, will be \$16 per person. A minimum of 15 students is required.

The registration form below should be completed and mailed with payment by October 1.

Mail no later than October 1 to: English Course, Personnel Office, Building 185. Checks should be made out to Middle Island Central Schools.

Name

Employee Immediate Family Guest

Address

Telephone No.

All Softball Participants

This is just a reminder that our softball night to end a successful season is planned for Wednesday, September 22, at 5:00 p.m. at the Recreation Field. Rain date - September 23. There will be hot dogs, beer, soda and snacks for all.

Retiree



Charles LoRe has been a Master Welder in Central Shops since November 8, 1962. He retired from the Laboratory on September 13, 1976.

—photo by Rosen

Arrivals & Departures

Arrivals

| | |
|---------------------------|------------------------|
| Jacques C. Antoine..... | Applied Science |
| Seymour Aronson..... | Applied Science |
| Inder P. Bhasin..... | Applied Science |
| Judith G. Bonaduce..... | Applied Science |
| Robert T. Drew..... | Medical |
| Joanne M. Ferrante..... | Applied Science |
| Sonja B. Haber..... | Medical |
| Rowland F. Hautsch..... | Applied Science |
| Lance K. Heiko..... | Applied Science |
| Ann B. Herriott..... | Applied Science |
| Darryl A. Howard..... | Accelerator |
| James L. Ivett..... | Medical |
| Stephen A. Kahn..... | Physics |
| John P. Keane..... | Applied Science |
| Martin W. Kendig..... | Applied Science |
| Marjorie Ann Klenin..... | Applied Science |
| Nancy Kublin..... | Physics |
| Dalia T. Kudirka..... | Biology |
| Janice A. Lamb..... | Director's Office |
| Barbara L. LaVallee..... | Adm. Sys. & Data Proc. |
| Joseph D. Moore..... | Applied Math. |
| Mark S. Raisch..... | Applied Science |
| Richard S. Sapienza..... | Applied Science |
| Catherine T. Sandrow..... | Applied Science |
| Doreen A. Schneider..... | Applied Science |
| Jeffrey A. Tarvin..... | Physics |
| Huong C. Wong Mac..... | Staff Services |
| Christopher M. Wurm..... | Applied Science |

Departures

| | |
|-----------------------------|------------------------|
| Harold E. Bronheim..... | Applied Science |
| Roger A. Cowley..... | Physics |
| Robert M. Garron..... | Medical |
| John H. Holder..... | Medical |
| Frederick J. Hollander..... | Chemistry |
| Konrad P. Kotrady..... | Medical |
| Charles Lo Re..... | Central Shops |
| Serban D. Protopopescu..... | Physics |
| Philip S. Taylor..... | Adm. Sys. & Data Proc. |

Beyond The Naked Eye

Someone gave John Kelsch a brass Bausch and Lomb microscope when he was 11 years old, and finding out what can be done with these instruments has been his principal interest ever since. Kelsch, who is in charge of the Microscopy Laboratory in the Instrumentation Division, will talk on the subject in the 139th BNL Lecture on Wednesday, September 29, at 8 p.m. in Berkner Hall. This lecture will be a departure from the regular lectures in this series, as it will not be technical, but will be geared to young people from about the age of ten on up, their parents, and anyone else who might be interested.

Kelsch will not deal with the history of microscopy, but will discuss the present state of affairs in the field and, in particular, magnification as it is used in Brookhaven's varied research. He will demonstrate what magnification is, why we use it, what information it gives to the researchers and why we select one instrument instead of another.

His lecture, which will be illustrated with over 25 slides, will also cover the kinds of microscopes available in his laboratory - for example, the scanning electron and the transmitting electron microscopes, and two kinds of conventional microscopes. He will describe the preparation of specimens which come from many areas of research - biological, medical, metallurgical, engineering, solid state physics. Kelsch will also conduct a brief guessing game to see whether anyone can identify objects that have been highly magnified.

He will take questions from the floor during the course of his talk, rather than group them all at the end, and will be glad to discuss his subject further with members of the audience after the lecture. Students will not get home late as Kelsch does not expect the talk to be much over an hour.

Although he majored in geology and biology, most of Kelsch's professional ca-



Scanning electron micrograph of a skeletonema (marine diatom) which comes from the New York Bight.

reer has been as a microscopist. In 1944, during his work at Interchemical Corp. in New York City, he used the fourth electron microscope then produced in the Western Hemisphere. He came to Brookhaven in 1959 and worked first in Nuclear Engineering (now DAS) until 1967, when he transferred to Instrumentation. Through microscopy he has been involved in the fields of cancer research, metal corrosion, pre-Columbian pottery, pigments, viruses, bacteriophage, decomposition of explosive crystals and clogged well points - to name a few.

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.



John Kelsch

—photo by Rosen

Attention! Cyclists and Runners

The BNL fall cyclists and runners races will be held on the same day, October 3, 1976.

The runners will start their races (5, 10 and 20 km) at 10 a.m. with registration starting at 9 a.m.

The cyclists will start at 11 a.m. with registration starting at 10 a.m.

All races are open to BNL employees, families and guests. Registration fee will be \$1 per entry.

Information on the run may be obtained from Gus Prince, Ext. 2901 and for the cycle race from Gerry Morgan, Ext. 4841.

New York City Train Trip

The Hospitality Committee is planning a group railroad trip to the city, Wednesday, October 6. Departure will be at 8:32 a.m. from the Patchogue LIRR station. Round-trip fare for adults is \$2.45, children under 6 years ride free. Reserve a ticket by sending your fare through the U.S. mail to P.O. Box 322, Upton, New York, no later than September 29. Make checks payable to "Cash." Refunds will be made only if cancellations are received before noon on October 1.

For those who are interested in joining them the group has arranged a tour of the United Nations. The cost is \$2 for adults; \$1 for school children, grades 1 through 9; and \$1.50 for high school and college students. Children under 5 cannot be admitted to the U.N. If there is a General Assembly on that day the tour group will be admitted; however, children under age 12 will not be admitted to the Assembly Hall. The tour will begin at about 10:45 a.m. and if there is a General Assembly end at about 1 p.m. You may make reservations for the U.N. tour at the same time you arrange for the train ride, in the same manner.

Coming

Last of the Red Hot Lovers
October 15, 16, 22, 23

Answers To What Did He Say? Sept. 17

1. The spirit is willing but the flesh is weak.
2. Pride goeth before a fall.
3. The grass is always greener in the other fellow's yard.
4. A rolling stone gathers no moss.

BROOKHAVEN BULLETIN

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Letters To The Editor

To the Editor:
I and my children, Manju and Sheela, wish to express our sincere thanks to all our friends for their help and support following the tragic death of my wife Girija.

G. Chikkappa

Cafeteria Menu

Week Ending Sept. 24, 1976

| | |
|------------------------------------|------|
| Monday, September 20 | |
| Corn Chowder | |
| Beef Liver & 1 veg. | 1.10 |
| Scrambled Eggs, Sausages & fr. fr. | 1.05 |
| Tuesday, September 21 | |
| Beef Noodle Soup | |
| Knackurst & Sauerkraut | 1.05 |
| Sauerbraten & Potato Pancake | 1.30 |
| Wednesday, September 22 | |
| Cream of Potato Soup | |
| Beef Chop Suey on Rice | 1.05 |
| Davy Jones Fish Fry Special | |
| \$1.40 plus tax | |
| Thursday, September 23 | |
| Chicken Vegetable Soup | |
| Cheese Ravioli & 1 veg. | 1.00 |
| Roast Chicken, Stuffing & 1 veg. | 1.10 |
| Friday, September 24 | |
| Fish Chowder | |
| Spaghetti & Clam Sauce | 1.00 |
| Breaded Pork Chop & 1 veg. | 1.30 |

Diners Note

The Cafeteria will be closed on Saturday and Sunday, September 18 and 19.
The Center Club will have a snack bar open from 9:00 a.m. to 2:00 p.m. on these days.
The Vending Food Service in Building 912 will be in operation continuously.
Normal business will resume at the Cafeteria on Monday, September 20.

Town Tennis Tournament

Anyone interested in entering the Brookhaven Town Tennis Tournament may pick up an entry form at the BERA Sales & Services Office.

Pool/Gym Weekend Closing

In order to do a complete and thorough exterminating job in the Pool and Gymnasium, the complex will be closed during the weekend of October 2 and 3.
It is absolutely necessary that locker users remove all contents from their lockers and leave the doors open. Any lockers not left in this condition will result in the locks being cut off and the contents placed in a holding bin for pickup the following week.

Soccer

John Skalyo

The Eastport/Moriches team won the Brookhaven Town Summer Soccer League and eventually won the Suffolk County Championship. During the season, BNL lost 1-0 to the champs in a hard fought contest. Alas, BNL was on the short end of the score by one goal many times this past season. The addition to the team of a goal-getter/striker/torjaeger is highly desirable.
The team plays a pick-up game every Monday night starting at 5:30. All interested people need only show up for a good workout. It's a good preparation for the indoor league starting later in the year.

Met Opera Tickets

Tickets for the 1976-77 Metropolitan Opera season will go on sale at the BERA Sales & Services Office in the Cafeteria, on Tuesday, September 21, starting at 7:30 a.m.

- No orders will be taken before September 21.
- An employee may purchase as many pairs of tickets as desired.
- All sales are final. No tickets will be returned or accepted for refunds or exchanges.
- Seats are located in the Family Circle and are priced at \$7.00 each, including service charge.
- Lists of seat numbers for each performance are available at the BERA Sales & Services Office.

Schedule

| | | |
|-----------------|----|----------------------|
| October | | |
| Tues. | 12 | Aida |
| Tues. | 19 | Il Trittico |
| Wed. | 20 | Le Nozze di Figaro |
| Thurs. | 21 | Il Trovatore |
| Mon. | 25 | Aida |
| Tues. | 26 | Le Nozze di Figaro |
| Thurs. | 28 | Il Trittico |
| November | | |
| Tues. | 2 | Le Nozze di Figaro |
| Wed. | 3 | Die Meistersinger* |
| Fri. | 5 | Il Trovatore |
| Tues. | 9 | Il Trovatore |
| Thurs. | 11 | Die Meistersinger* |
| Mon. | 15 | Die Meistersinger* |
| Thurs. | 18 | Aida |
| Sat. | 20 | Lohengrin |
| Tues. | 23 | Lohengrin |
| Wed. | 24 | Esclarmonde |
| Thurs. | 25 | Aida |
| Fri. | 26 | Lohengrin |
| Tues. | 30 | Lohengrin |
| December | | |
| Thurs. | 2 | La Forza del Destino |
| Sat. | 4 | Esclarmonde |
| Mon. | 6 | Faust |
| Wed. | 8 | Aida |
| Fri. | 10 | Faust |
| Tues. | 14 | Esclarmonde |
| Thurs. | 16 | Die Zauberflöte |
| Tues. | 21 | Tosca |
| Thurs. | 23 | Die Zauberflöte |
| Sat. | 25 | Tosca |
| Thurs. | 30 | Faust |
| January | | |
| Tues. | 4 | Salome |
| Wed. | 5 | Die Zauberflöte |
| Fri. | 7 | Tosca |
| Tues. | 11 | Lucia di Lammermoor |
| Wed. | 12 | Tosca |
| Thurs. | 13 | Faust |
| Sat. | 15 | Lucia di Lammermoor |
| Thurs. | 20 | Salome |
| Mon. | 24 | Tosca |
| Tues. | 25 | Die Zauberflöte |
| Sat. | 29 | Lucia di Lammermoor |
| February | | |
| Tues. | 1 | Le Prophete |
| Wed. | 2 | Salome |
| Thurs. | 3 | Die Walküre |
| Fri. | 4 | Lucia di Lammermoor |
| Tues. | 8 | Die Walküre |
| Wed. | 9 | Le Prophete |
| Thurs. | 17 | Le Prophete |
| Fri. | 18 | Salome |
| Tues. | 22 | Carmelites |
| Thurs. | 24 | Die Walküre |
| Fri. | 25 | La Forza del Destino |
| Sat. | 26 | La Nozze di Figaro |
| March | | |
| Tues. | 1 | La Forza del Destino |
| Sat. | 5 | La Forza del Destino |
| Mon. | 7 | Le Prophete |
| Tues. | 8 | La Forza del Destino |
| Thurs. | 10 | Le Nozze di Figaro |
| Tues. | 15 | La Boheme |
| Thurs. | 17 | Tosca |
| Wed. | 23 | La Boheme |
| Tues. | 29 | Andrea Chenier |
| Thurs. | 31 | Il Trovatore |
| April | | |
| Tues. | 5 | Lulu |
| Fri. | 8 | La Boheme |
| Tues. | 12 | La Boheme |
| Wed. | 13 | Samson et Dalila |
| Thurs. | 14 | Lohengrin |
| Sat. | 16 | Lulu |

*Curtain time for all evening performances of Die Meistersinger has been changed to 7:00 p.m.

IBEW Meeting

Local 2230, I.B.E.W. will hold its regular monthly meeting on September 23, 1976, 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.

Sight Savers



If they had not been wearing their safety glasses, electrician Dave Johnstone (right), and foreman Ed Iberger (left) would be in deep trouble today. Johnstone was making an electrical connection when there was a flash and metal splattered on his glasses, as well as on Iberger, who was standing right behind him. Lou Jacobson, Safety Coordinator for Plant Engineering, presented them with Wise Owl certificates, awards sponsored by the National Society for the Prevention of Blindness, Inc. — photo by Rosen

Softball

Ed Taylor

League I

Ravens 5 (5-3) - Old Timers 3 (3-5)

The Ravens, led by the timely hitting of Mike Losquadro, Wayne Smith and Ed Taylor and the clutch pitching of veteran Spider Ligon, clinched the League I Championship by defeating a good Old Timer team 5 to 3. Congratulations to the Ravens on a nice season.

Blue Jays 7 (4-4) - Hawks 3 (4-4)

League II

The Six Pax defeated the Dirty Sox in their second half playoff game last week to win both halves and the League II championship. The Six Pax played well as a team, with Ken Asselta of the Pax making some superb catches in the outfield.

League IV

Streakers 12 - Power Packers 7

In this first half championship playoff game last week, the Streakers combined good defense with good hitting to defeat the Power Packers, thus winning both halves and the League IV championship. Tony Krupien had a home run for the Streakers.

Nuke Powers 11 (2-6)
Charlie Browns 5 (3-5)

The Nuke Powers, with a solid defensive effort and strong pitching from Paul Haas and George Greene, held the Charlie Browns scoreless in 4 innings. The hitting, led by Weaver, Greene, Guppy, Vargo and Ginsberg, gave the Nukes' their best game of the season. They look forward to a much improved season next year.

League V

Final 2 games were cancelled.

1976 Softball Standings

| League I | 1st Half | 2nd Half | Overall |
|-------------------|----------|----------|---------|
| *Ravens | 5-2 | 5-3 | 10-5 |
| Hawks | 3-4 | 4-4 | 7-8 |
| Old Timers | 4-3 | 3-5 | 7-8 |
| Blue Jays | 2-5 | 4-4 | 6-9 |
| League II | | | |
| *Six Pax | 6-1 | 5-3 | 11-4 |
| Dirty Sox | 3-4 | 5-3 | 8-7 |
| Bubble Boys | 3-4 | 4-4 | 7-8 |
| Metallurgy | 2-5 | 2-6 | 4-11 |
| League III | | | |
| *Circuits | 7-0 | 7-1 | 14-1 |
| Phoubars | 3-4 | 4-4 | 7-8 |
| Sweathogs | 2-5 | 3-5 | 5-10 |
| Medical | 2-5 | 2-6 | 4-11 |
| League IV | | | |
| *Streakers | 5-2 | 6-1 | 11-3 |
| Power Packers | 5-2 | 4-3 | 9-5 |
| Charlie Browns | 3-4 | 3-5 | 6-9 |
| Nuke Powers | 1-6 | 2-6 | 3-12 |
| League V | | | |
| *Oh Kays | 7-0 | 6-0 | 13-0 |
| Diamonds | 5-2 | 3-3 | 8-5 |
| Balls & Strikes | 5-2 | 2-4 | 7-6 |
| Turkeys | 3-4 | 3-3 | 6-7 |
| Odd 15 | 1-6 | 3-3 | 4-9 |
| T.N.T. | 0-7 | 1-5 | 1-12 |

*Denotes league champions.

Bicycle Club Meeting

A meeting will be held Monday, September 20, at 4:00 p.m. in the seminar room (2nd floor) of Bldg. 480. The purpose is to enlist the assistance of more people in running the coming fall race and next season's tours, and to discuss the advisability of a formal bicycle club. If you are unable to attend, but would like to help out, notify G. Morgan, Bldg. 815, giving address and phone number, and indicate a preferred meeting time during the week.

Bicyclers are notoriously individualistic, but a little mutual assistance can give returns well worth the effort.

BERA Rifle/Pistol Club

The BERA Pistol Club has joined in with the Eastern Long Island Pistol Club. All those interested please send your name, Lab extension and home telephone number to John Zahra, Building 911A, or call Mr. Zahra on Ext. 4634 or 4667.

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.

203. BUILDING & GROUNDS UTILITY WORKER - Performs a wide variety of tasks common to maintenance and construction trades on buildings, roads and grounds.

Uses various specialized tools and equipment such as tractors, concrete mixers and fork lifts. Plant Engineering Division.

204. SECRETARIES - AAS degree or equivalent in secretarial science and experience in general office procedures. Assignments involve providing secretarial services to purchasing agents and assisting in other administrative tasks associated with the procurement function. Purchasing Division.

205. RESEARCH SERVICES ASSISTANT - Part-time position. AAS degree or equivalent in medical technology with experience in microbiology, virology and tissue culture. Department of Applied Science.

206. TECHNICIAN - AAS degree or equivalent in mechanical technology or chemistry. Assignment involves construction and operation of high temperature experimental apparatus, preparation and analysis of samples. Experience with vacuum systems, gas-flow circuits, glass blowing and lab instrumentation required. Department of Applied Science.

207. SUPPLY & MATERIEL CLERK AND GENERAL CLERK - Assignments involve clerical duties requiring thorough familiarization with the operation of a phase of the central stores facility operation. Duties include typing, maintaining files, working with purchase orders and receiving reports and assisting in other inventory control operations. Supply & Materiel Division.

