



Mesoamerican Mystery Explored At Brookhaven

Dr. Garman Harbottle of the Chemistry Department will deliver the 103rd BNL Lecture at 8:00 p.m., Wednesday, June 23, in Berkner Hall. His lecture is entitled, "Nuclear Methods in the Service of Archaeology: Brookhaven Studies in Ancient Mesoamerica."

Beyond our borders to the south, stretching through the deserts, savannas and jungles of Mexico, Guatemala and Honduras, lies "Mesoamerica," the cradle of the earliest civilizations of this continent; a land containing its extraordinary richness the cultural remains whose discovery, study and correlation are the work of many famous explorers and archaeologists.

In his Brookhaven lecture, Dr. Harbottle will first conduct listeners on a brief but concentrated tour of some of the most interesting and significant Mesoamerican archaeological periods and places, their history as deduced from their architectural, artistic and cultural productions and then take up some of the problems confronting the archaeologists in their study of inter-relationships within the vast array of unearthed ceramic material pertaining to these different periods.

Against this background the work of Dr. Ed Sayre, Dr. Harbottle and their colleagues in the Chemistry Department, in collaboration with archaeologists such as G. Willey and J. Sabloff of Harvard, M.D. Coe of Yale, R. Rands of Southern Illinois University, J. Paddock in Oaxaca Mexico and Ignacio Bernal in Mexico City will be described.

In addition, Dr. Harbottle will explain how the technique of neutron activation analysis is applied to ancient ceramics from Mesoamerica, what data were collected and analyzed, its value and the impact that this information has had among the archaeologists. Finally, some perspectives for future work and its possible long-range potential will be mentioned.



Dr. Harbottle attended the California Institute of Technology and received his PhD in chemistry from Columbia. Since coming to BNL he has been awarded an AEC Post-doctoral Fellowship to Cambridge University in 1951 and later a Guggenheim Fellowship to the same place.

From 1965 to 1967 Dr. Harbottle served as Director of the Division of Research and Laboratories of the International Atomic Energy Agency in Vienna. His special interests include hot atom chemistry and archaeological applications of nuclear techniques. He is a Guggenheim Fellow and a member of Sigma Xi.

A buffet supper will be served at the Brookhaven Center before the lecture starting at 6 p.m. Reservations should be made in advance by calling Ext. 2283 before 5 p.m. Refreshments will be available in the lobby of Berkner Hall immediately after the conclusion of the lecture.

Memorial Service

A memorial service for the late Leslie Nims will be held on Sunday, June 20 at 10 a.m. in St. James Episcopal Church on Beaverdam Road in Brookhaven.

They Have Arrived!



Over the weekend the summer students have straggled in via plane, train, bus, and car to begin their months' work at BNL. Already they are up early in the morning assuming their respective duties and responding to the Brookhaven atmosphere of scientific inquiry. Above, Gary Sanford is weighing out samples and enclosing them in tubes which will then be bombarded with neutrons to make them radioactive. He will then analyze the radiation to determine the composition of the sample. Assigned to the Chemistry Department under Dr. Ed Sayre, Gary is from Miles College. Sandy



Propst, who seems overwhelmed by the mountain of luggage in her dormitory, attends Boston University. She is working in the Biology Department under Dr. Myron Ledbetter to discover the ultrastructure effects of growing plants in a magnetic field.

Vineyard Honored At Battelle Meeting

On Saturday, June 19, Dr. George H. Vineyard, Deputy Director, will be the speaker at a banquet concluding the six-day conference on "Interatomic Potentials and Computer Simulation of Lattice Defects" at the Battelle Seattle Research Center in Seattle, Washington.

Dr. Vineyard will be honored for the early work he and his colleagues performed using high-speed digital computers to simulate radiation-damage events in solids. This work first demonstrated the feasibility and power of the computer method and inspired its subsequent rapid growth into a recognized field of solid-state physics research.

Designed to evaluate the respective contributions of computer simulation of defects and inter-atomic force studies to the material sciences by qualified people in physics, chemistry, and materials science, the conference is the sixth in a series sponsored by the Battelle Memorial Institute.

It is tradition for the Institute to honor one of the participants at each conference for the impact his work has had on the subject of the meeting. Some of those previously saluted are W. Hume-Rothery, R.E. Peierls, F.R.N. Nabarro, and L. Onsager.

Manowitz Winner of ANS Radiation Industry Award

Bernard Manowitz of the Department of Applied Science was named the winner of the 1971 ANS Radiation Industry Award on Tuesday at the American Nuclear Society (ANS) Annual meeting in Boston. The presentation of the award certificate and a \$1,000 check was made by Nunzio J. Palladino, President of the American Nuclear Society.

In a citation accompanying his prize, Mr. Manowitz is honored for his "outstanding leadership in research and development of the practical utilization of high energy radioisotope radiation in industry."

Mr. Manowitz is head of the Radiation Division at Brookhaven. He is author of a considerable number of publications both in the field of waste disposal and in the field of applied radiation. With John Lawrence and Benjamin Loeb he is the co-author of a book entitled *Radioisotopes and Radiation* which was a presentation volume by the United States to the delegates of the 1964 Geneva Conference. Since 1955 he has been an editor of the International Journal of Applied Radiation.

860 Pledge To Give Blood

As of Tuesday, June 15, 860 people have pledged to donate a pint of blood for the Brookhaven Laboratory Blood Program on June 29 and 30.

According to Alf Christoffersen, Coordinator of the Program, appointment schedules are being established for both days to avoid lines of people. The schedule will be set up for the gymnasium's capacity of 30 people every 15 minutes.

Those who have signed up will receive a card in the mail at the end of next week giving the time of their appointment.

Public Sale of Motor Vehicles

Thirty-two (32) motor vehicles, located at Warehouse T-87, will be available for Public Sale.

Inspection will be permitted from July 1st through July 9th, during the hours of 9 a.m. to 4 p.m., except Saturday and Sunday. Bid opening will be held on July 13th, at 2 p.m.

Bids will be opened at General Services Administration, Business Service Center Bid Room, 26 Federal Plaza, New York, New York, 10007. Tel: Area Code 212, 264-2637.

This will be an informal competitive bidding. Bid forms may be obtained at Building 87 and 211. For further details, please call Extensions 2509 or 2704.

Brookhaven Firefighters



This group of firefighters under the direction of Capt. William Kirklewski (left) is participating in a training session on the use of a portable saw used for cutting pipes and other metal. A full story on the work of Brookhaven's Fire Department will appear in next week's issue of the *Brookhaven Bulletin*.

AEC Announces New York-Chicago Consolidation

The Atomic Energy Commission announced Monday that the functions and responsibilities now assigned to its Chicago and New York Operations Offices will be consolidated into one office located at the AEC's Argonne National Laboratory near Chicago. The move is expected to be completed by January 1 next year.

The consolidated office will be responsible for administering all research and development contracts now assigned to the two offices; it also will administer the contract for operation of Argonne; and, through site offices reporting to it, will administer other major contracts.

The site offices are located at Brookhaven National Laboratory; the National Accelerator Laboratory, Weston, Illinois; and at Cambridge, Massachusetts; and Princeton, New Jersey. In addition, reactor development and technology program site offices are located at Genoa, Wisconsin; Argonne, Illinois; and Waltz Mill, Pennsylvania.

The AEC's Health and Safety Laboratory will remain at its present location at 376 Hudson Street in New York City as a site office reporting to the Commission's Division of Biology and Medicine in Washington, D.C.

The consolidation of the two offices is expected to result in a savings of some 60 to 90 positions and is part of the AEC's continuing effort to achieve a more effective and economical organizational structure that will make additional manpower available to meet priority program needs.

There currently are 280 full-time employees at New York Operations and 210 at Chicago Operations. The Commission will make every effort to minimize the impact of the consolidation on its employees and to place those affected in other positions with the AEC, in government or private industry.

According to Lyman Bryan, Manager of the Brookhaven Area Office, "The administrative change in the New York Operations Office of the AEC will have no effect on the operation of Brookhaven National Laboratory."

"It is expected," said Bryan, "under tentative plans, that the only effect on the Brookhaven Area Office will be in the line of reporting, which will be to the new, consolidated office in Chicago."

North Shore Horse Show To Benefit Ministries

The second annual Smith Haven Ministries Horse Show will be held June 20 at the Middle Island Arena, Rocky Point-Yaphank Road, Middle Island. The all-day show begins at 8:30 a.m., rain or shine.

The public is invited to view the exciting show and tickets are now available through local riding stables or at Smith Haven Ministries (724-6161) at \$1 per person. Ample free parking is available at the arena and special ringside parking can be reserved at \$5.

The entire proceeds of the event will be used to advance the work of Smith Haven Ministries in areas of counseling, youth services, medical prevention programs, and community information.

Holiday Food Service For On Site Residents

The Tap Room at the Center will be open for normal beverage and snack service over the weekend of the Fourth. The Dining Room will be closed on the 2nd, 3rd and 4th of July, resuming normal service on the 5th.

At the Cafeteria only, the Snack Bar will be open on July 2nd, 3rd, 4th and 5th, from 9:00 a.m. to 2:00 p.m. The food vending machines in Building 912 will be in operation throughout the holidays.

Biologists' Tour Lab



At the mid-point in formal sessions of the 23rd Biology Symposium at Brookhaven, participants were taken on a tour of Brookhaven's research facilities.



Sal Giordano of the Accelerator Department points out features on a model of the Alternating Gradient Synchrotron.



Eric Klug of Biology, displays tradescantia growing in controlled environment chambers.



Julius Milau (left) explains seed irradiations at the High Intensity Radiation Development Laboratory.



Packed up to leave after the close of the conference are these students from the University of Virginia at Charlottesville: James Parent, David Beebe and Margaret Gaydos.



Lloyd Schairer of Biology explains experiments with plants that have been grown from shoots rocketed aloft in the NASA Biosatellite experiment.

Summer Student Seminars Start

A series of ten seminars aimed primarily at summer students will be inaugurated on Wednesday, June 23 at 3:30 p.m. in Berkner Hall.

The keynote address for the series of ten lectures will be given by Philip Sporn, who will devote himself to the subject of "Energy Needs, Resources, and Outlook for the Future."

After the first lecture, the balance of the series will be given on Thursday afternoons in Berkner Hall at 3 p.m. While the lectures are aimed primarily at the Summer Students, it is hoped that they will also be attractive to visiting faculty and the BNL staff.

During the first week of the students' stay at Brookhaven, a committee will be formed to select subsequent programs. A steering committee consisting of Glenn Price as Chairman, assisted by Norbert Dernbach, Garman Harbottle, Donald Metz, James Robertson, and Vance Sailor, will work with the students in developing the program.

Keynote speaker Philip Sporn, an engineer and a public utility executive, has been awarded twelve honorary degrees since graduation from Columbia in 1917. He has been active in electric power affairs since that time, and has served on various government committees. From 1953 to 1957 he was a member of the Visiting Committee for BNL's Nuclear Engineering and Reactor Departments.

The second speaker in the series will be Sherman Knapp, Chairman of the North East Power Coordinating Council. His topic will be "A Review of the Electrical Power Situation in the Northeast From 1971 to 1980."

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Baptism For BNL's Beaten Path



If you are taking a leisurely stroll around the lab and enjoying the natural beauty, or if you are rushing to the AGS and taking the shortest route through the woods, or if you are a summer student wandering around and just plain lost, more than likely you will travel over a well-worn route trampled by countless pairs of feet. You will also likely discover that this renowned path has gained new recognition and a new identity, thanks to Dr. Frederick Mills and Dr. Marty Plotkin of the Accelerator Department. Now having the distinction at BNL of being named after a non-scientific figure, famous in his own right, the trail is officially and appropriately christened the Thoreau Path. For many years this wooded trail has served as a shortcut from the AGS to the cafeteria and other buildings and will continue to be a brief relaxing interlude from the routine of the day for those who walk along its way.

Arrivals & Departures

Arrival	
Shu Jen Chen.....	Medical
Departures	
Agnes H. Donahue.....	Medical
Otto Eisold.....	Accelerator
Fred F. Stahman.....	P.E.P.
Gene Weeks.....	Mech. Engrg.

IBEW Meets June 24

Local 2230 IBEW will hold its regular monthly meeting on Thursday, June 24 at 8 p.m. in the K of C Hall, Railroad Avenue, Patchogue. There will also be an afternoon meeting in the union offices at 32 Oak Street at 2 p.m. for shift workers. On the agenda will be regular business, the president's report and the negotiations progress report.

Weekly Calendar

- Tuesday, June 22**
Instrumentation Seminar 2:00 p.m., Instr. Sem. Rm., Bldg. 535
 Timing with Ge Detectors
 Z.H. Cho, Instrumentation & Health Physics Dept., Brookhaven National Laboratory
- Wednesday, June 23**
Chemistry Seminar 3:30 p.m., Chem. Seminar Rm., 33 Lewis Rd.
 1,4-Dilithio-butadiene Reagents and Their Application to Metallocycle Chemistry
 Marvin Rausch, University of Massachusetts
- Brookhaven Lecture Series (No. 103)** 8:00 p.m., Berkner Hall, 11 Brookhaven Ave.
 Nuclear Methods in the Service of Archaeology: Brookhaven Studies in Ancient Mesoamerica
 G. Harbottle, Chemistry Department, Brookhaven National Laboratory
- Thursday, June 24**
Particle Physics Seminar 11:00 a.m., Seminar Rm., 20 Penn. St.
 Are Laser Accelerators Practical?
 R.B. Palmer, Physics Department, Brookhaven National Laboratory

- Tuesday, June 29**
Laboratory Colloquium *3:30 p.m., Berkner Hall, 11 Brookhaven Ave.
 (Sponsored by the Physics Dept.)
 Quantitative Considerations of the Hazard of Ionizing Radiation to Humans
 Dr. Joan Gofman

- Wednesday, June 30**
Chemistry Seminar 3:30 p.m., Chem. Seminar Rm., 33 Lewis Rd.
 ESR Studies of Short-lived Radicals Generated by Fast Flow Techniques
 G. Czapski, Hebrew University, Jerusalem

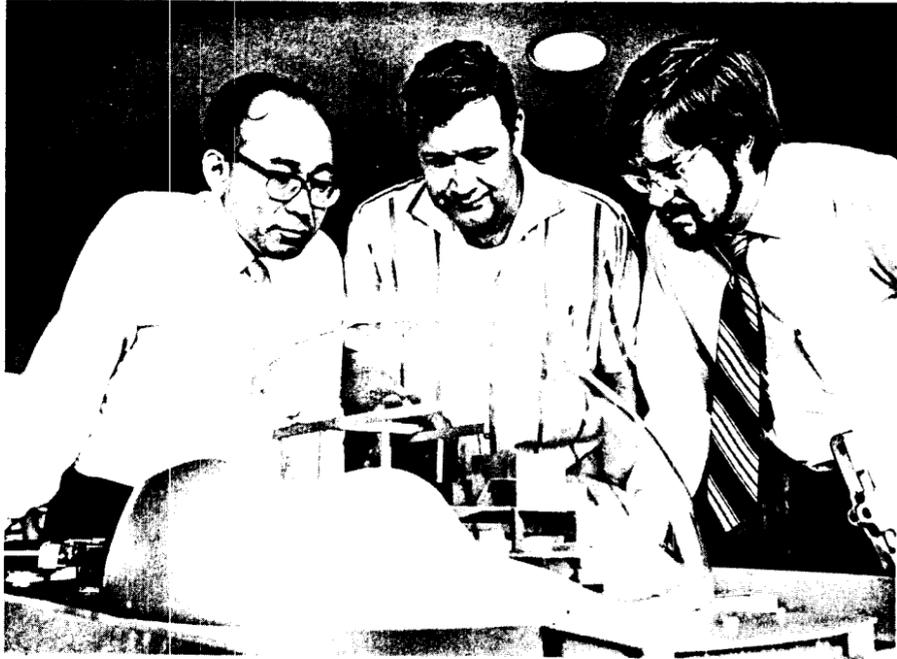
*Coffee to be served before the Colloquium at 3:00 p.m.

Gourmet Delight



The annual Cooking Exchange Dinner was held last Thursday at the Brookhaven Center. Over 125 invited guests sampled more than 200 dishes ranging from canapes and tid-bits to vichyssoise. Scores of exotic and delicious desserts topped off an evening of gourmet delight. Josette Auerbach (right) Jackie Newman (left) and Terri Pittenger shared the duties of Chairlady and Hostess.

First-Hand Look



Professor S. Shiba (left) a physics teacher and a Japanese TV personality, gets a first-hand look at a model of the HFBR. Professor Shiba's visit was hosted by Charles Anderson (right) Chairman of the English Department at Longwood High School. Art Humm (center) from I & HP was the tour guide at HFBR. Professor Shiba teaches a physics course on TV, and is here under a Ford Foundation grant to visit American physics research centers.

Photo Trip To Long Island's North Fork

The Brookhaven Camera Club has scheduled a photography trip to the North Fork of our Island. The intention is to leave from the parking lot of the cafeteria at 10 a.m., Saturday June 19th and slowly explore the fishing ports, shores and other interesting spots while moving East. We'll have lunch on the way, and end the trip at Orient Point.

Camera Club members, any other photography amateurs, including summer visitors and students, are invited. Bring your cars; we'll take only those needed. Non-photographers are welcome, but they will have to be very patient. Do not underestimate your film needs. Let's hope for moderately good weather. Come.

—J. Llacer

Longwood School Host To Brookhaven Visitors

In connection with study in preparation for the Longwood Middle School's International Fair, to be held in June, six Brookhaven National Laboratory employees or members of BNL families visited the school to speak in informal groups with sixth grade pupils who are studying their native lands.

The visitors answered questions about the language, art, history, daily life and customs of their native countries. Some of the visitors brought with them articles representative of their country such as Swiss cow bells and wood carvings, Indian silk and sandalwood carvings and a Japanese kimono.



Constantine Cotzias, (right) son of George Cotzias, Medical, briefs Longwood sixth-graders on Greek culture and customs.

The visitors were Constantine Cotzias (son of Dr. George Cotzias, Medical) who spoke about Greece; Dr. Kwan Wu Lai, Physics, who spoke of China; Mrs. Yoko Ozaki (wife of Dr. Satoshi Ozaki, Physics) who spoke of Japan; Mrs. Madi Palmer (wife of Dr. Robert Palmer, Physics) who spoke of Switzerland; Mrs. Anna Passell (wife of Dr. Lawrence Passell, Physics) who spoke of Australia; and Dr. A. Ramwsha Rao, Medical, who spoke of India.

The visits were arranged by the school's Project ABLE teachers, Elaine Friedman and Lynn Morris, who are also lab wives (Jerry Friedman, Applied Math and Dr. Thomas Morris, Physics.)

Tennis News

The tennis committee will be meeting in the next few days to make plans for the 1971 BERA Tennis Tournament.

In the past years, the BERA tournament has consisted of simple elimination (one loss and out) matches in four categories: men's singles, men's doubles, ladies' singles, and mixed doubles. Participation has been limited to employees and their spouses.

If the customary pattern is followed, tournament play will probably begin the week of July 12, with the deadline for entries, July 8.

However, this year the tennis committee would like to get opinions from players on whether there should be any changes in the tournament. Any active player who has suggestions for improving the tournament in any way should transmit his thoughts to one of the members of the tennis committee, as soon as possible. Volunteers are welcome to join the tennis committee.

Present members of the tennis committee are: Allan Auskern, Jim Brandon, Helen Connell, Dan Schaeffer, and Mary Jane Stangby.

Gymnasium Lockers

All lockers in the gymnasium swimming pool complex are at this time being re-registered. Please call or stop at the Recreation Office to re-register yours if you have not received a notice in the mail.

Cafeteria Menu

Week Ending June 24, 1971

Friday, June 18	
Manhattan Clam Chowder	
Fried Fillets of Sole w/Tartar Sauce & French Fries	.95
Codfish Cakes w/Tomato Sauce & 1 Veg.	.85
Baked Beef Loaf w/Savory Gravy & 1 Veg.	.85
Monday, June 21	
Cream of Tomato Soup	
Breaded Pork Chop w/Applesauce & 1 Veg.	.95
Beef Ravioli w/Parmesan Cheese & 1 Veg.	.90
Beef Livers w/Smothered Onions & 1 Veg.	.85
Tuesday, June 22	
French Onion Soup	
Salisbury Steak w/Brown Gravy & 1 Veg.	.85
Frankfurters Rolled in Bacon w/Baked Beans & Cole Slaw	.85
Sliced Turkey & Stuffing w/Cranberry Sauce, Giblet Gravy & 1 Veg.	.90
Wednesday, June 23	
Vegetable Soup	
Chinese Pepper Steak on Rice	.90
Old Fashioned Chicken Pie w/Biscuit Crust	.95
Flounder Stuffed w/Crabmeat, Tartar Sauce & 1 Veg.	.90
Thursday, June 24	
Turkey Noodle Soup	
Grilled Monte Cristo Sandwich, Currant Jelly & Potato Chips	.85
Veal Pattie w/Noodles Oregano	.85
Braised Beef a la Mode & 1 Veg.	.95

Theatre Group Elections

The following nominations have been put forward by the Theatre Group nominating committee for the election of officers for next year.

- President Bob Marr
- Vice-President Doug Hunter
- Secretary Eena Mai Franz
- Program Chairman Mike Losquardo
- Advisory Committee Chairman Dave Rahm
- House Committee Chairman Charlie Meinhold

Further nominations will also be accepted from the floor. Voting will take place at the Theatre Group meeting on June 29 at 8:30 p.m. At this meeting the selection of plays for next year will also take place.

Mixed Softball

C. Falkenbach

Mixed Softballs' third week was no less spectacular than the preceding two.

In the first game the Mixed-Ups were way behind when Fred Lawson of the Mixed-Ups caught a fly ball on the rebound off the top of his head. The crowd went wild and the Mixed-Ups, feeling more enthusiastic, scored 6 runs in the bottom of the fifth. Nice try but Chemistry still won 8-7.

The Gotcha's and the Saints, in the second game, seemed evenly matched for awhile. The fielding and hitting of both teams was very colorful to say the least. Helen Connell and Georgia Irving (Gotcha's) were the stars of the second inning catching 3 line drives in the infield putting the Saints batters out in order. Helen was still hot when she went to bat in the third. Her sacrifice "bunt" brought in a run and sent Odelli Ozer to second.

If it were not for the talents of people like Vernon Faine (Saints) who had 3 beautiful home runs with men on base, the Gotcha's could have lost by a more respectable score than 15-3. Better luck next time Gotcha's!!

Pool - Gym Procedures

Admission to the Swimming Pool and Gymnasium will be granted only to: employees; members of employees' families (members of the same household); and, guests of above.

An employee or a family member will be permitted to bring no more than five guests per family. Employees or responsible family members must accompany and supervise their guests. If several employees bring a group of youngsters, they must accompany and supervise them in the Pool and Gym areas.

Admission through the gates of the Laboratory to use the Swimming Pool and Gymnasium is controlled by the Security Office. However, members of employees' families are permitted to enter the Laboratory to use the Pool and Gym if they:

Are accompanied by an employee, or are in possession of a Season Pool Pass, or are in possession of a Temporary Identification Card issued by the Security Office.

Summer Season Starts At Pool

Summer is fast approaching and with that comes the start of a new season at the Swimming Pool. So prepare now to have your season pass bought and ready to use on the very first day.

Season passes may now be purchased at the Recreation Office (9:00 a.m. - 1:00 p.m.) or at the Pool Office during its open hours beginning June 7, 1971.

The following schedule of rates and times will be in effect for the Summer Season which begins on June 21st and continues through September 3rd.

Schedule

Open Weekdays Monday through Friday 12:00 noon - 1:30 p.m. Employees Only (Must have Season Pass).
1:30 p.m. - 9:30 p.m. Employees/Family/Visitors.

Rates

Season Pass	
Employee or Family Member	\$10.00
Family (Same Household)	\$20.00
Daily Single Admission	
Employee or Family Member	50¢
Visitor	75¢

(No Single Admissions 12 noon-1:30 p.m.)

Diamond News

by Dean Easler

Metallurgy was the team to beat last week in the Brookhaven League as they pulled themselves into a three way tie for first place by shelling the previously undefeated Old Timers 18 to 10. Ten consecutive hits in the first inning spotted the Metallurgy team an early eight run lead which they never relinquished. For the second straight week A. Auskern, J. Crow, and L. Snead each connected for a home run. All the power was not to be denied the Old Timers, however, as D. Adams lashed out two home runs and W. Carciello one to help account for the Old Timers ten runs. In the other Brookhaven League games, the Dirty Sox broke into the win column as they defeated Applied Math by an 8-5 score. Big Tim Curto hit a two run homer in the first and a solo shot in the fourth for the Dirty Sox while Ed Gill continued hitting the ball real well as he was three for four and Bob Horton went three for three. The Blue Jays were idle last week but their 2-1 record shares first place honors with Metallurgy and the Old Timers.

Last Wednesday in the National League saw the Six Pax remain undefeated as they won over the Bubble Boys 12-5. The Six Pax continue to play good steady ball as their 4-0 record indicates. S & M returned to the form they displayed in their first two games of the season after losing last week by overpowering Chemistry 23-9. S & M socked out six home runs in the game as one each was collected by S. Mars, M. Guacci, R. Mulderic, G. Leverock, G. Dioguardo and F. Altrui. In four games with a 3-1 record S & M has collected 72 runs on 95 hits with 16 round trippers. Lots of sawdust was also flying around in the game between the Pop-Ups and Deadwoods as the Pop-Ups took it 21-14. Neal Jackson homered twice and Ray Atkins once helping the Pop-Ups to a 3-1 seasonal record.

In the Laboratory League the Bio Meds demolished the Converts 42-11 with Bob Bores going 7 for 7 including 3 long home runs. The Phoubars defeated the Survivors with a score of 19-12.

As a final note, it seems inescapable of reporting that the writer holds the dubious distinction of hitting (are you ready for this?) into a triple play last week against AMD! - And I really wasn't even trying to.

Classified Advertisements

Positions Available

In addition to publishing positions available at the Laboratory, the Brookhaven Bulletin is currently listing outside job openings which have come to our attention and may be of interest to Laboratory employees. Each listing will be repeated (if still available) only once.

GROUPS OFFICE CLERK (1) - Plant Eng. & Planning. Application deadline: June 23, 1971.

HEAVY EQUIPMENT MECHANIC-OPERATOR (1) - Plant Engrg. & Planning. Application deadline: June 25, 1971.

SECRETARY - Meteorology Division.

SERVICE ENGINEER/TECHNICIAN - To work on northern pulse height analyzers. Present location Middleton, Wisconsin with opportunity of East coast within a year. Northern Scientific, Inc., Middleton, Wisconsin.

ANALYTICAL CHEMIST - B.S./M.S. Experience in x-ray fluorescence desirable. Hoffmann-LaRoche, Inc., Nutley, New Jersey.

CLERK - Applied Mathematics Department.

TECHNICAL TYPISTS - American Institute of Physics, BNL.

For further information, please contact Employment Supervisor, Ext. 2109 or 2513.

Autos & Auto Supplies

64 BUICK LE SABRE - Ps/pb, r/h, V8, auto trans, orig owner, excel cond. J. Fontana, 744-2821.

2 TIRES - Nylon 4 ply, 7.00x13, used little. \$9 ea. 585-8322.

69 VW BUG - 15,000 mi, extras, like new. 928-0062.

VW PARTS - Starters, generator, 6 volt, speedometer, headlight assy, cheap. F. Dusek, Ext. 2411.

2-4.00x16 TIRES - Good cond. Ext. 2931.

VW WHEEL - Slotted, 5 lugs. Nick, Ext. 2931.

69 LAND ROVER 88 - New tires & valves, lockout hubs, removable hard top, excel cond. \$1650. Chapell, 878-4268.

64 RAMBLER CLASSIC 770 STATION WAGON - Good int & body, bad eng but runs, price negotiable. R. Parsick, Ext. 2384.

69 VW SQUAREBACK - 19,000 mi, std shift, radio, excel cond, go ng abroad. \$1950. 286-0783 eves.

67 DATSUN SPORT CAR - Model SP(L)311, must see to appreciate. \$1250. 581-5786.

13" WHEELS - 4 lug, Comet, Corvair, Falcon, \$2 ea; GM type gen, \$5; 6.95x14 tire, \$3. Bob, Ext. 2450, 289-0357.

MUSTANG PARTS - Bumper, grille, windshield, etc. Ext. 2814.

63 SAAB - As is. \$75. J. Doohar, 294-0097.

2 EA WHEELS & SNOW TIRES - Mounted & balanced 4000 mi, VW squareback or fastback. \$40. 286-0783 eves.

64 OLDS STATION WAGON - F-85 Cutlass eng, air cond, r/h, auto shift, roof rack, extras. \$600. 286-0783 eves.

70 YAMAHA MOTORCYCLE - 250 cc, like new. \$550. Ext. 2106.

63 RAMBLER - V6, auto trans, good eng, needs body repair. \$50. 475-2630.

64 CADDY LIMO - Good cond, want to get a new car. Pete's Limo Service, 732-7625 after 4.

60 DE SOTO - V8, ps, new starter & fuel pump. \$100. P. Hicks, 924-8539.

65 CHEVELLE MALIBU SS - 283 V8, air cond, posi, 1 owner. \$600. D. Fay, Ext. 613.

67 HONDA MOTORCYCLE - 50 cc, 400 orig mi, elec start, show room cond. \$150. Mini-bike hunting? Buy this instead. 363-6673.

68 CADILLAC ELDORADO - Air cond & all pwr luxury, excel cond, 39,000 mi. \$3800. 286-0879.

60 FALCON - '63 eng, good running cond, std shift on floor. P. Hicks, 924-8539.

61 VW BUG - W/69 eng, sun roof, excel running cond. \$350. Chojrey, Ext. 7205.

58 DODGE PICKUP - 6 cyl. \$25. Ext. 2829.

63 FORD COUNTRY SQUIRE WAGON - Good cond. \$300. Palmedo, Ext. 7762.

61 CHEVY IMPALA - 4 cr sedan, r/h, ps, good tires, new exhaust system, ball joints & shocks, good running cond. \$125. G. A. Smith, Ext. 7676.

66 VOLVO 1225 STATION WAGON - 31,500 mi, needs tires. \$1200. Jones, Ext. 7581.

65 FORD CUSTOM - 352 V8, 4 dr sedan. Ext. 7323, 475-6288 after 6.

Boats & Marine Supplies

9½" SAILING DINGHY - 3 yrs old, relatively unused, good cond. \$255. H. Davis, Ext. 7165, 653-4195.

ACQUA-CAT CATAMARAN SAILBOAT - Fiberglass, dacron sail blue & white, some stainless steel fittings, needs canvas deck, masthead float, aqua pouch. \$450. Ext. 7353, 587-9372.

12'-1970 SAILBOAT & TRAILER - Dacron mainsail & jib, foam filled alum mast; boom, rudder & centerboard fine quality & cond; dbl hulled boat, seats 4, stable & safe. \$550. Ext. 7396.

7'9" PRAM - Built from Weldwood sailing pram plans, fiberglassed. Ken, Ext. 7638.

26' OWENS CRUISER - Excel cond, must sell. 289-1568 after 6.

20' FIBERGLASS SLOOP - Signet 20, lots of equipment, sleeps 4, many extras, low price. Ext. 2993, 744-9436.

OLD TOWN CANOE - 16', all fiberglass, like new, many extras. \$250 firm. Stoner, Ext. 2902, 286-0958.

16' KNUDSEN CABIN BOAT - Inboard, Flagship, good cond, ready for water. \$400. 727-6147 after 5.

'61 SHOUP 18' RUNABOUT - Very good cond. \$350. JUS-6771.

17' THOMPSON 1962 - Very good cond, w/'58 Johnson 50 hp Morse controls. \$495. 588-4987.

O'DAY DAY SAILOR 1967 - New mast, 3 hp outboard & trailer, running lights, compass, many extras. \$1800. 286-0783 eves.

16' THOMPSON SKIFF - 40 hp Johnson elec motor, single lever control, Ncvy top, both in excel cond. Ext. 388, 286-1024.

18' "CRUISERS INC" SKIFF - 75 hp Evinrude elec, tilt trailer, canvas & access. 732-8202 after 7.

OWENS 27' HDTP CRUISER - 185 hp, sleeps 4, legal head. 475-9428.

7½' DINGHY - Fiberglass, excel cond. \$65. 924-5260 after 5:30.

17' FIBERGLASS SAILBOAT - Equipped, in water, \$750. 286-1205.

16' RUNABOUT - Plywood hull, steering wheel, remote control cables. \$75. FR8-0337.

Miscellaneous

ENTERTAINMENT UNIT - Stereo, color TV; sofa; 2 lg end tables; all Ital Prov; 2 brass Stiffel lamps. Phyllis, 585-4973.

CREE TRAVEL TRAILER - 18', self contained, sleeps 6, gas stove w/oven, refrig, heater, elec & gas lights. Ext. 586.

WALL TENT - 12'x14' surplus army, excel cond. \$75. Gertrude, 286-1256.

POT BELLY STOVE - Approx 42" high, don't know the value, make offer. 588-5833.

POOL LADDER - Alum, slide up steps for safety, still in shipping carton, brand new. Cost \$40, sell for \$25. 588-5833.

POOL COVER - 18 or 20' round, nylon mesh w/tie down cable. \$15. 588-5833.

CRIB W/MATTRESS - Good cond, \$20; infant dressing table, \$10. Judy, 924-8456.

INFANT CAR BED - W/mattress, \$5; playpen, \$8; Donald Duck tot trainer, \$1; Regina vacuum cleaner, upright, \$3; Handcraft elec vaporizer, \$3; solid phono, Decca mod DPS-25, \$10. Ext. 507/2895.

MEN'S GOLFING SHOES - Size 9E, lt brown & white, worn once. Orig price \$27.50 (Abercrombie & Fitch), best offer over \$15. G. Callister, Ext. 7505.

ENGLISH SETTER PUPS - AKC, show, pet, field, champion line, Blue Shadow & Man Loue's. 475-2896.

HO TRAINS & LG LAYOUT - Rolling stock, track, scenery, tables, etc., will sell all or part, best offer. Don, 286-1157 after 5 or weekends.

SPEED QUEEN DELUXE GAS DRYER - Like new, w/s.s. tub. Cost \$240, sell \$125. 581-4544.

GAS STOVE - 36" w/oven & broiler. \$25. H. Davis, Ext. 7165, 653-4195.

FURNITURE - Liv rm couch, chair, love seat, child's redwood picnic table & benches. 286-0879.

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

LUGGAGE CARRIER BY MORSAN - Station wagon or sedan, 5'x3½'x14", water proof, vinyl coated, solid bottom, used once cross country. New \$44.99, sell \$25. Ext. 7386.

TEENAGERS ARE WELCOME - In our dog training classes! Qualified instructor will teach your youngster to train his dog. P. Warner, 728-0273 after 6/18.

LG SPEAKER CABINETS - Compl finished, suitable for guitar amplifier, reasonable. Rich, Ext. 2735.

BOW - Stemler, model Mogul 1, 64", 43 lb. \$30. Ext. 7668.

6600 BTU PHILCO AIR COND - 115 v AC. \$150. 281-9298.

SQUIRREL MONKEY - W/cage, \$25; parakeets, 2/\$5; will deliver. Geo., Ext. 639, 727-1267 after 6.

¾" PLYWOOD - 4'x8' sheets, sheathing grade. Ext. 2931.

BAR SOLDER - 60/40 5 bars, 40/60 8 bars. Ext. 2931.

HAMMOND ORGAN - E111 series, self-contained, multi-sound, 2 manual keyboards, full foot pedals, new cond. Sacrifice, \$1900. Ext. 2588.

SPEED SLIDE RULE - Pickett log-log, pocket size, all metal, model no. N-600ES, w/case. \$10. Tiny, Ext. 2304.

ARCHERY TARGET - Regulation size, woven straw & burlap cover. \$20. Tiny, Ext. 2304.

MASTER BEDRM SET - His & hers dressers, mirror, bookcase headboard, 2 lg night tables, \$200; green leather chair, \$15; both excel cond. 878-1859.

WOMEN'S GOLF CLUBS - #3,5,7,9 irons & putter, 1 & 3 woods, & bag, excel cond. \$30. Bob, Ext. 629, 325-0626.

SLIDE RULES - 10" & 5" Post Versalog, 23 scales, best offer. Ext. 2747.

TOURING BICYCLE - Brand new Raleigh Super Course Professional Adult Model, compl equipped. Cost \$180, will accept best offer. Ext. 2747.

DANISH MODERN SOFA - Newly slip covered, \$25; coffee & 2 lamp tables, \$15; excel cond; ideal for fam rm or den. 473-8011.

DRUMS - Rogers & US Mercury, 2 sets mixed w/1 snare, in excel cond. \$300 firm. 473-4779 after 5.

AR TURNTABLE - 2 spd manual, w/ADC-10/E cart, walnut base, dust cover. Cost \$140, sell \$80. Sam, Ext. 7208, 585-1759.

FREE - Assorted kittens, recently manufactured, never used, in orig fur containers, limit 5 per customer; first come, first serve. 584-6274.

65 APACHE - Hdtp camping trailer w/canopy, excel cond. \$550. T. Honnett, 283-2169.

2 CASTRO CONV SECTIONALS - 4', matched, brown tweed, like new. \$300. George, Ext. 657, 588-2328 after 6.

5 PC SECTIONAL - Brown, \$100; kidney-shape coffee table. 878-1859.

SOLID CHERRY COLONIAL BUFFET - 1 of a kind, hand crafted w/4 raised panel doors & 4 drawers, 72"x2' deep. \$400. 878-1859.

FROSTLESS REFRIG - \$50; portable humidifier, \$45; lg wood storage chest, \$20; 3½ hp rototiller w/pwr reverse, new eng. 878-1859.

HDTP TENT TRAILER - Sleeps 8, equipped, good cond. \$675. 286-1205.

NORWAY MAPLE TREES - 8-12' high, for a beautiful & symmetrical shade tree. \$6 ea. Paul, Ext. 2222.

TABLE LAMPS - Matched pair, compl 32" high, perf cond. \$20. F.J. Keute, Ext. 2580, 475-2287.

ELEKTROLUX TANK VACUUM CLEANER - Good cond; folding ironing board, good cond; \$20 takes both. 286-3742.

OIL BURNER GUN - Kleen-Heat model 80A, compl from filter to nozzle, good cond. F. Merkert, Ext. 7639/7180.

PLUMBER'S TOOLS - Rigid pipe threader w/5 dies, rigid pipe cutter. Both for \$19. C. Goodzeit, Ext. 7682, 286-0271.

BOOK - "How to get 20%-90% off on everything you buy." \$5. Ext. 2725.

ELEC "HOLLOW BODY" BASS GUITAR - 2 heavy duty pickups, volume tone controls, like new. \$60. Dave, Ext. 2593.

MARVEL ELEC BASS AMP - 20 watts, 12" speaker, can be used for other elec instruments. \$50. Dave, Ext. 2593.

GIBSON WAH-WAH PEDAL - For elec guitar or organ, like new. \$40. Dave, Ext. 2593.

ELEC GUITAR - Solid body, 4 pickups, individual controls, w/case, excel cond. \$70. Dave, Ext. 2593.

FOOTLOCKER TRUNK - Good cond, reasonable offer. Charles, Ext. 2882.

15' STARCRAFT TRAVEL TRAILER 1969 - Sleeps 6, heater, refrig, stove, porta potti, Reese hitch, immac cond. \$1700. 281-8667 after 5.

AMPLIFIER - Traynor BassMate, Model No. YBA-2, 115 v, 60 w. Leslie speaker, Model 16, 15 in. 8 ohm speaker. \$200. takes all. Lloyd, Ext. 660, 473-2523 after 6.

MINI-BIKE CARRIERS - Attach to car bumper, new, never used, \$8; color organ, sound excited light display for stereo, 4 channel, custom built, \$25. R. Hildenbrand, Ext. 7777.

SM XMAS & PINE TREES - 3'-5'; 12x15 rug, Wunda-weave nylon, moss green, \$75; colonial design rug, 8x12, \$25; cedar chest, oak, \$35. Ext. 322.

STEREO RECORD PLAYER - W/2 speakers, used 14 mos, new \$135-now \$75; bottle warmer, baby bath & other misc baby things. 744-8689.

CLOTHES SALE - Dresses, coats & shirts, tennis dress, cape & shirt, sweater, excel cond, 10-12, 50¢-\$5; TV, used 16 mos, excel cond, new \$129-now \$70. 744-8689.

HOOVER PORTABLE WASHER - Spin dry machine, coppertone w/counter top, like new, used 12-15 times. 281-3215.

CAMPING EQUIPMENT - Coleman gasoline stove, \$18; & dbl-mantle lantern, \$15; both never used. Mom, 286-0783 eves & weekends.

RADIAL SAW - 10" Craftsman, hardly used, plus stand, casters & light, \$200; plus many accessories, \$280. Dad, 286-0783 eves & weekends.

JOINTER/PLANER - 6-½" Craftsman, ½ hp motor, stand & belt guard, hardly used. \$160. Dad, 286-0783 eves & weekends.

COX POP UP TRAILER FOR RENT - Sleeps 6, only avail wks of July 18, Aug 15 & 22. \$50/wk. Ext. 2814.

TYPEWRITER - L.C. Smith, good cond, needs tape. Ext. 2931.

RHODODENDRONS - 2'-3' heads. \$6 ea. Rich, Ext. 635.

OLD BKS & PHONOGRAPH RECORDS - O. Booker, Ext. 2411.

HALLICRAFTER MOD 5X110 - Short wave receiver, 538 KC to 34 uc in 5 bands, many features. \$75. Walt K., 286-0246.

REEL LAWN MOWER - Jacobson Manor 21, professional type, heavy duty, very good cond. Cost \$250, now \$100. Walt K., 286-0246.

2 AIR CONDITIONERS - 1 quite old but working well, the other fairly new. Ext. 7278.

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

BELLPORT - Victorian house, renovated 1965, 9 lg rms incl 4 bedrms plus 2½ baths & 3 fireplaces, oil baseboard heat, all elec appliances, full bsmt & attic, separate 2-car garage, near stores & dock, avail 8/71. 286-0783 eves.

SOUND BEACH - Custom, 4 bedrms, 3 full baths, plus income 3 rm apt, w/w, s/s, appliances, fin bsmt, landscaped, pvt beach rights, many extras. 744-2004 after 5.

HAUPPAUGE - 3 yr colonial, 4-5 bedrms, 2½ baths, din rm, liv rm, kitchen, lg den, w/w, s/s, appliances, air cond, fin bsmt, 2 car garage, fenced, landscaped, pool, many extras. Asking \$45,000. 724-5577.

WADING RIVER - 3 bedrm cedar ranch on wooded acre, air cond, 16x22 fam rm w/raised hearth fireplace, appliances, w/w, 2-car garage, 2 baths, less than 1 yr, reas taxes. \$47,500. Ext. 2930, 929-6459.

PT JEFF - Belle Terre, 10 rms, 4 bedrms, 2½ baths, on 2+ wooded acres. George, Ext. 2191.

For Rent

FURN HOUSE - For summer months, in Bellport Village, walking distance to stores. 286-8945.

FURN HOUSE - 3 bedrms, for July & Aug, Pt. Jeff area. 928-0208.

BELLPORT - Lg spacious house, furn, 4 bedrms, 2½ baths, oil baseboard heat, near shopping & boat dock, for 12-13 mos starting 8/71. 286-0783.

3 BEDRM FURN HOUSE - Shoreham, avail 9/71 for 1 yr. 744-8917 after 6.

MOTEL TYPE - Priv bath/entrance, outdoor grill, lawn chairs. 281-7844 after 5.

BAYPORT - Charming 1851, furn, 1 yr 9/1, mod kitchen, 1½ baths, fireplace, 6 rms incl lg studio (or storage), barn, walk to village, bay, buses. Ext. 2962, HR2-1397.

Wanted

BABYSITTER - Preferably on-site, for 2 yr old boy during working hrs in July & Aug. Bill, Ext. 7220, or Ext. 515 after 5.

HORSE MANURE OR OTHER - Will pick up, free or reasonable. Ext. 2713.

BABYSITTING - Will care for your child in my home while you work. 588-1566.

GIRL'S LT WGT RIDING JACKET - For use in shows, size 12-14, good cond. 567-3906.

USED MEN'S 10 SPD BICYCLE - And/or sleeping bag. S. Case, Ext. 7839.

BABYSITTING JOBS - Desired by high school graduate. S. Reilly, 286-1192.

BABY STROLLER & CAR SEAT - Reasonable. 475-9428.

TREE REMOVAL - Will do tree removal & chain saw service, painting, general ground maint, etc. Bob, Ext. 316, 732-9517.

TROLLING MOTOR - 12 volt, for fresh water use. 585-8322.

BABYSITTING - Qualified high school girl looking for day or night position during summer. Diane, 744-5811.

JACK - Hydraulic or scissor auto jack; also 6 volt VW car radio. F. Dusek, Ext. 2411.

HOME FOR 2 KITTENS - 8 wks old, 1 blk & white, other grey & white, yours for the taking, both housebroken. Millie, JU8-9501.

KLA ELEC CLOCK - Must be accurate time piece, big enough for lg office. Ext. 2326.

DEHUMIDIFIER - In good working cond. Ben, Ext. 2591.

FOREIGN CARS - In need or major or minor repairs, expert factory trained mechanic's prompt service, free estimate. Ext. 2912.

PEOPLE - Interested in BNL group flight to Europe. \$240 round trip in summer; \$160 in Sept. R. Horwitz, Ext. 2725.

WICKER COUCH - Willing to paint it & pick it up. Kathy, 277-1594.

GOOD HOME - For 5 yr old Lab Ret, blk, good w/children, bred well, papers, shots. Rizzo, Ext. 2717, 286-0716 eves.

LAWN JOBS WANTED - In Brkhnv hamlet, reliable. Ricky, 286-3372.

MOTHER'S HELPER OR BABYSITTING JOBS - Wanted for summer, Brookhaven-Bellport area. Pam, 286-3372.

SMALL TRAVELING IRON - Llacer, Ext. 618/7230.

HOMES FOR KITTENS - 3 blk females, 2 orange males, 2 grey tiger males. Alina, 281-7549.

STUDENTS - To build readiness for elem school, openings for 3 & 4 yr olds, Upton Nursery School. Mrs. Mohring, 929-6744.

'65-'66 STATION WAGON - V8, 6 psgr, Chevy or Tempest. Bob, Ext. 2450, 289-0357.

4 HP EVINRUDE OR JOHNSON - OB motor, good cond. B. Museler, Ext. 7676.

BABYSITTING - Mother will babysit in own home for a working mother, Riverhead area. O. Booker, Ext. 2411.

Carpools

DRIVER WANTED - To compl carpool from Patchogue. Bob, Ext. 2265.

OCCASIONAL DRIVER WANTED - July & Aug, from Smithtown, Ext. 563.

SUMMER DRIVER WANTED - To compl existing carpool from Exit 52 (or further west) on LI Expwy. Elliot, Ext. 2103.

PAYING RIDER URGENTLY NEEDS RIDE - From E. Northport for the end of June & beginning of July. Rich, Ext. 2735.

FROM EXIT 57 - LI Expwy & vicinity. Ext. 2153.

DRIVER WANTED - To compl existing carpool, Brightwaters-W. Islip area. Bob, Ext. 7259.

Lost & Found

FOUND - Wallet in Chem reading rm. Ext. 391.

LOST - On 5/5/71 in Gym, plastic Curity baby bottle shell (the kind used w/disposable bags). Bob, Ext. 629, 325-0626.

LOST - Blue windbreaker from Cafeteria at dinner Thurs May 27. Jones, Ext. 7581.

Classified Ad Policy

Deadline is 12 noon Friday for publication the following 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

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 112, 40 Brookhaven Avenue.

(Name & Phone No. To Call)

Employee's Signature Life No. Ext.

Send to: Brookhaven Bulletin, 40 Brookhaven Avenue