

BNL Students Discuss Ethics

The probability or even the possibility of harmful side effects from modern science now draws raging debate. From mass media and government, these discussions have entered the laboratories of science.

Brookhaven is no exception. Earlier this month two undergraduates from the Summer Student Program conducted seminars on ethics and science.

The first seminar was given by Cliff Cockerham, a senior at Cornell University entitled: "The Role of Ethical Decision Making in Scientific Thought." Later that week Marc Adler, a recent graduate of Brandeis University, followed with his talk "The Role of Scientific Thinking in Ethical Decisions."

Though both students have majors in biology with a strong interest in genetics, the recombinant DNA controversy was not a central issue. And despite the close timing and similar titles, they approached the discussion from radically different directions.

Regulation

Cockerham dealt with ethics when science affects society directly. The overall approach was compromise and the only answer offered was communication.

In a setting of contrast with recent statements by Prof. Alasdair MacIntyre, Political Science Department, Boston University, Cockerham argued against the government regulation, defending the individual's right of inquiry.

"Stopping all scientific advancement, as MacIntyre asserts, not only won't work, but shouldn't work," said Cockerham. "This is a more important point, because the one thing that none of us wants to give up, even more than dishwashers, MacDonald's, and color television, is our freedom."

With individual freedom as the fundamental assumption, he argued a difference between a technological application like the bomb and the science which made it possible. Society may outlaw a technology as dangerous, but regulating the direction of science is a different matter.

"Any time we forget the importance of

(Continued on page 2)

Top Black Newscaster To Speak At BNL

Veteran broadcaster, Roy Wood, Vice President in charge of Special Programming of the National Black Network, will speak on "Politics, Power and Race," at Berkner Hall, Thursday, July 28 at 3:30 p.m.

Wood, who has been called the "Eric Sevareid of black radio," has covered all phases of broadcasting for almost 30 years at various radio stations in the south and midwest. Back in 1950 on WIBC Radio in Indianapolis, he was the first black to hold the position of staff announcer on a major network affiliate. Three years later, he moved to a radio station in Birmingham, Alabama, with subsequent moves to stations in St. Louis and Chicago. From 1963 to 1972 he was news director and editorialist of WVON Radio in Chicago. Wood has a large following as a newscaster and his comments are considered "pungent and provocative."

In 1972 he joined the National Black Network, (NBN) a relatively young (four years) radio communications system headquartered in New York. The NBN is the largest and only black-owned network in the world, and transmits programs of particular relevance to blacks to radio stations throughout the country.

Wood is a graduate of the Columbia University School of Journalism and the Columbia College of Fine Arts, Chicago. He has taught at the Malcolm X College in Chicago and is an Associate Professor in the School of Communication and Broadcast Journalism at Howard University.



James Sanford, Associate Director, explained the whys and wherefores of facility was also featured on the weekend summer tour and drew about 650 ISABELLE at a press briefing here last week. The proposed colliding beam people to the Laboratory.



Isabelle Rendezvous With Press At Exhibit Center

Metropolitan area news reporters met at the Laboratory last week for a press briefing on ISABELLE, the highlight of last weekend's tour program. Radio and television taped this public debut of the proposed colliding beam facility.

Media news coverage that evening and on the following day indicated a warm reception for the project from the press. The *New York Times* story carried the headline: "ISABELLE's Unveiling Proves a Smash."

The conference was called by Laboratory Public Relations Officer Carl Thien to inform the press of recent developments on ISABELLE. This event created an opportunity for reporters to ask questions and collect first-hand visual material on the relatively esoteric science project.

Associate Director James Sanford described the project in the historical back-

ground of high energy physics. He went on to explain the mechanism for building and operating the accelerator.

At the press briefing, Sanford made the first public statement indicating the intention to amend the funding proposal now in Congress. The new proposal will be released when completed in a few weeks.

This change calls for a 40 percent funding increase bringing the budget close to \$238 million. This money would allow construction improvements to fully double the attainable energy level of the accelerator (to 400 x 400 GeV).

Questions from the press followed. Inquiries ranged from funding realities to the scientific significance of the machine. Several reporters were interested in technological spinoffs into areas like superconducting power transmission.

An area housing ISABELLE displays at

the Exhibit Center provided an appropriate setting for the conference. Reporters also had a chance to view BNL's 15-minute videotaped ISABELLE documentary on the 12-square foot television screen at the Center.

The Exhibit Center's other displays attracted the attention of reporters. Channel 21, one of the news teams which toured the Center, interviewed its director, Janet Hoefling as part of news footage on the weekend's tour program.

Later reporters looked at the ISABELLE half-cell - a series of prototype magnets - in operation. In addition to posing for newspaper photographs, Sanford and magnet expert Per Dahl also gave several radio, television and newspaper interviews.

—Cliff Cockerham

School Bells Ring For Six Employees

Six employees will temporarily abandon their 8:30 to 5 routine at the Laboratory on September 1 and enter the world of Academe. They have been selected from among 43 applicants for Laboratory's Technician Training Program, a program which will enable them to complete requirements for an associate in applied science degree at Suffolk County Community College.

The successful six are:

Robin Gianopoulos, a technician at the AGS, who came to Brookhaven July 19, 1965. Before her present job she worked as a technician in Medical and a scanner in Physics. Robin has been taking night courses at Suffolk since 1974 and plans to make electrical technology her field.

William E. Lenz, Jr., has been a technician in Physics since August 30, 1976. He has completed approximately two semesters at Suffolk and now plans to zero in on mechanical technology.

Rosemary Mack started out as a trainee in the Youth-on-Campus program and was hired in the Mechanical Engineering Division July 10, 1972. She is now a drafts-woman in the Accelerator Department. She plans to specialize in mechanical technology with emphasis on design and drafting.

Franciel Scott is a technician at the AGS. Before joining the Accelerator Department, September 22, 1975, he was a participant in the Suffolk County Community College work study program at BNL. He has completed several semester's work at the College and will now focus on mechanical technology.

Martin R. Van Lith started as a scanner in the Physics Department April 8, 1968, then moved to computer operator and is now a technician. He has been taking courses at Suffolk since 1970 and will pursue a degree in electrical technology.



Employees selected for the Technician Training Program are (foreground) William E. Lenz, Jr., (seated) Donna White and Rosemary Mack, (standing from left) Martin Van Lith, Franciel Scott and Robin Gianopoulos.

—photo by Rosen

Donna White joined the Reactor Division May 12, 1975 and is now a technician in DAS. She has college credits from Tufts, NYC Community College, SUNY at Stony Brook and Suffolk County Community College. Her aim is an associate's degree in engineering sciences.

Gianopoulos, Mack and Scott also took advantage of LeRoy Jefferson's tutorial classes in math and basic physics at the Laboratory, and Donna White sometimes helped out as a tutor for the classes.

The six participants in the program will be full time students for the fall semester

and will return to the Laboratory for on-the-job-training in various departments until the next September. This schedule will be repeated until requirements for an associate's degree have been met. The Laboratory will pay all college expenses and will also continue the student's salary and fringe benefits.

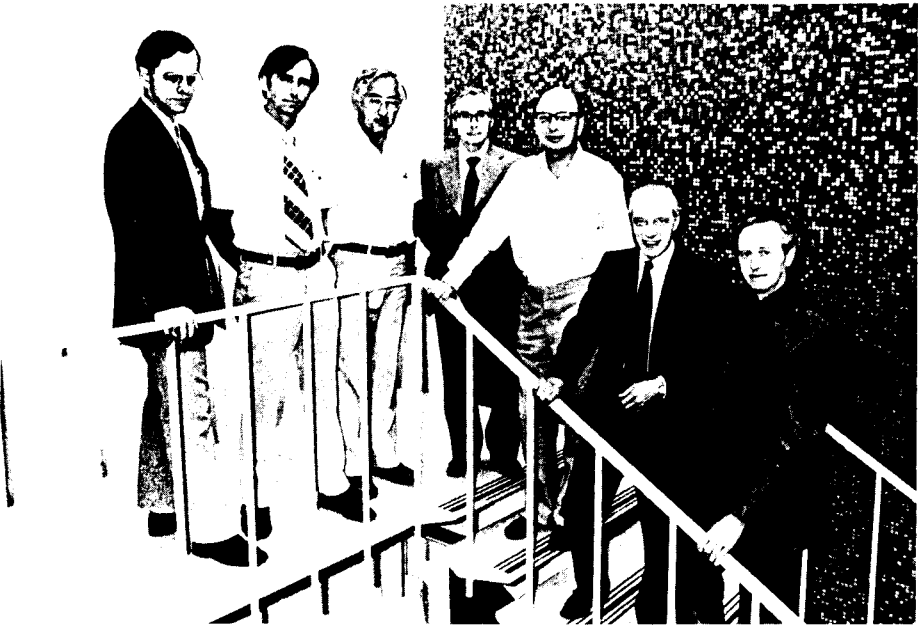
Those who served on the selection committee were Ed Dexter (Accelerator), Art Humm (S&EP), LeRoy Jefferson, Bob Thomas (Chemistry), Bill Tuttle (Accelerator) and Janet Whitehead (Personnel).

Scientific Cooperation



Some members attending the fifth meeting of the US-USSR Joint Commission on Scientific and Technical Cooperation in Washington, came to Brookhaven on July 11 for a briefing on Brookhaven's research programs. In Dr. Vinyard's absence, Acting Director Victor P. Bond (center) presided over the meeting of Commission members and BNL staff.

Reactor Safety Workshop



The Light Water Reactor Risk Assessment Workshop was held at Brookhaven National Laboratory on June 28-30. The workshop was held in conjunction with a new reactor safety program which has been initiated at BNL with the Nuclear Regulatory Commission (NRC). Lectures were given by A.E. Green and his reliability technology staff from the United Kingdom Atomic Energy Authority (UKAEA). Twenty-six individuals from BNL, NRC, UKAEA and other organizations attended. Some of the participants (left to right) were: J.A. Murphy, cognizant engineer, probabilistic analysis branch, NRC; R.E. Hall, group leader, reactor engineering analysis, BNL; Associate Chairman for Reactor Safety W.Y. Kato, BNL; and from UKAEA, E.R. Snaith, A.E. Green, A.J. Bourne and T.R. Moss. —photo by Walton

Student Seminar (Continued)

individual rights to inquire in the discussion of legislative restraints," said Cockerham, "we open ourselves to a police state . . . both in principle and practice, since this is the level of enforcement necessary to hold man back after tasting the fruit of knowledge."

He also acknowledged that sometimes the research work itself may be dangerous for society because of side effects. The "fear of recombinant DNA research" is the most popular example.

"One cannot legislate against fear," said Cockerham. "What is needed is not legislation, but instead caution and the thoughtful cooperation of scientists in safety considerations."

Cockerham suggested following the HEW regulations of informed consent in research on humans. Under informed consent, a researcher must inform and secure the permission of human subjects in experiments.

Generalizing this protection would make all laboratory experiments which clearly have an indirect effect on humans outside the lab, a type of "human experimentation." When the scientist's activity is shown to directly interfere with the rights of others, informed consent would be invoked.

This forces the scientist to be responsible for sufficient containment to prevent the experiment from affecting others. The only alternative is to go ahead with the informed consent of those affected.

Both control over research and the responsibility for its side effects remains with the scientist. And for the scientist who allows research to affect others without their informed consent, there are existing procedures in the judicial system to enforce the code.

Much of the discussion among students attending the seminar focused on the prin-

ciple of generalized informed consent. Many were concerned that informed consent implies ability to withdraw consent.

On the other hand, someone pointed out that, "Science is no different from other human endeavors. If you regulate them, why not regulate science?"

No Mixing

Adler's view of science and ethics was quite different. He argued that the two simply do not mix, as ways of thinking.

"The use of scientific thinking in ethical decisions is a misuse," said Adler. "Attempts to adapt scientific thinking to ethics fall short of what is needed."

He described the two as different ways of thinking. Scientific thinking is based on self-evident fundamental assumptions producing unique and absolute answers. Ethics seems to lack both.

"Rather than adapt scientific thinking," said Adler, "it is better to start with assumptions in ethics which science can not make. That is, the existence of conflicting truths."

A long discussion period allowed response from the audience. Those who spoke tended to disagree with the mutually exclusive definitions.

Some focused on the difference between scientific method and scientific thinking. While others pointed to limited resolution as the main reason that the two areas seem different.

During the "parting shots" Adler was able to bring some of the opposing opinions together. He added: "We should maintain, as one man put it, an agnosticism to our own beliefs and conclusions."

The two ethics seminars were an unusual event in the Weekly Calendar. Most of the series, which was lined-up by physics students Dan Kaplan and Jose Martinez, involves scientific seminars on student research at BNL.

Take A Tour & Test Your Car

A mobile unit designed to check motor vehicle exhaust emissions for more efficient gasoline usage will be at the Lab this Saturday and Sunday as part of the summer tour program. The van will be here between 10 a.m. and 4 p.m. in the parking lot across the street from Berkner Hall.

The "Econo-Van" is operated by the Nassau County Department of General Services. It has a self-contained generator and engine analyzer which measures an automobile's emission of hydrocarbons and carbon monoxide. A high emission of hydrocarbons can mean faulty ignition, timing or spark plugs. The carbon monoxide readings relate to the air-fuel mixture in the carburetor. Both cause poor gas mileage according to Francis O'Conner, general services commissioner.

O'Conner also said, "Virtually millions of gallons of gasoline a day are wasted in America because automobile engines are performing below acceptable levels."

The test takes about two minutes. The operators of the test will recommend corrective action if needed, but will not actually perform repairs.

Besides coming out and having your car tested, bring your family and friends to take a tour of the Lab. The guided bus tour takes you to and from the Exhibit Center where one of the newest attractions is the Energy Environment Simulator, a computerized, electronic game which lets players balance energy resources against energy demands to beat the clock. The game is over when the resources are exhausted. You can also play tic-tac-toe with a computer which scolds if it thinks you are trying to cheat - "This is an honest game! Type again!" The Exhibit Center covers many areas of research at the Lab and at some of the exhibits you can push a button and hear an explanation of the work that was done in that area of the reactor. There is also a souvenir shop which has some intriguing items, a Frisbee with the BNL/AUI logo, a small weather station kit, lots of pamphlets on energy and much more.

The hours are from 10 a.m. to 4 p.m., though it is suggested you arrive before 2:30 p.m.

Selected Reading

Impact Sci. 27, January-March 1977
Explorations in mathematics. C. Musès. 67-85
Happenings in chemistry. 87-91
Learning processes in man, machine and society.

M. Malita. 93-103
Disaster prevention and control in the earth sciences. J. Tomblin. 131-9

New Sci. 74, June 16, 1977
Scientists and the control of science. M. Singer. 631-4

A science for the people. J. King. 634-6
A very professional amateur. S. Festing. 642-4
The bitter-sweet taste of saccharin. W. Ramsay. 656-8

Science 197, July 1, 1977
Reactor safety: Independence of Rasmussen study doubted. D. Shapley. 29-31

Table Tennis

The table tennis ladder tournament is in full swing in the south dining room of the Brookhaven Center. Most of the action takes place during the noon hour.

The ladder and list of players are posted at the Center. All players are urged to check their standings and start challenging to improve their positions. It's still not too late to enter. Anyone interested may add his or her name to the list.

"A man said to the universe:
'Sir, I exist:'

'However,' replied the universe,
'The fact has not created in me
A sense of obligation.'"

— Stephen Crane (1871-1900)

"Nothing exists except atoms and empty space; everything else is opinion."

— Democritus ([of Abdera] ca460-ca 370 BC)

"Natural selection is a mechanism for generating an exceedingly high degree of improbability."

— Ronald Aylmer Fisher (1890-1962)

In Memoriam

Stephen Karen, the Supervisor of the Paint Shop in Plant Engineering, died of a heart attack in his home in Sayville on Saturday, July 9, 1977. He was 57 years old.

Karen began at the Laboratory on June 29, 1953, as a Spray Painter. He worked here for 24 years and was on vacation when he died.

Services were held on the morning of the 12th at the St. Lawrence Catholic Church in Sayville where Karen was buried. He is survived by his wife Frances and two grown children, Stephen Jr. and Arlene.

Speakers Bureau July

July 11 - Bill Graves (DAS), Guild Hall, E. Hampton, on Federal Assistance to Solar Projects.

July 13 - Bill Wilhelm (Accel.), Advent Lutheran Church, Mattituck, on Solar Energy: Where Is It?

July 14, 21, 28 - Bill Wilhelm (Accel.), Custer Institute, Southold, Solar Energy Workshop.

Blood Drive A Success

Because 774 pints of blood were given during the two-day BNL blood drive last month, every employee as well as the employee's immediate family, will be assured of blood should the need arise in the next year. As defined under this program, the immediate family is a large one and includes the employee's spouse, dependent children, parents, parents-in-law, grandparents and grandparents-in-law.

Donors included not only employees, but also family members. And a salesman Harold Schelhas, who delivers pies and cakes to the Laboratory on a regular basis, not only left the pastries but also returned in the afternoon to deposit a pint of his blood.

To receive blood under this coverage, patients must inform the hospital that they are covered under the Greater New York Blood Program through Brookhaven National Laboratory account #GO-2221. You should also notify Personnel Services (Ext. 2877) if you have taken advantage of the program.

Employees who missed the annual blood drive or who would like to donate more than once a year, are encouraged to contact the Greater New York Blood Program (289-1414) to make an appointment to donate blood at a local hospital. Appointments can be arranged at the following hospitals: Brookhaven Memorial, Eastern Long Island, Huntington, John T. Mather, St. John's Smithtown and Southside. When giving blood, employees should give the BNL account #GO-2221.

Cafeteria Menu

Week Ending July 22, 1977

Monday, July 18

Cream of mushroom soup
Chicken a la king on rice 1.10
Cheese omelet & 1 veg. 1.15
Hot deli - pastrami

Tuesday, July 19

French onion soup
Chinese pepper steak on rice 1.25
Barbecued breast of lamb & 1 veg. 1.15
Hot deli - sloppy joe

Wednesday, July 20

Split pea soup
Breaded flounder filet & fr. fr. 1.25
Hot deli - baked Virginia ham

Special

Spaghetti w/meat sauce & garlic bread
All you can eat \$1.20 plus tax

Thursday, July 21

Cream of chicken soup
Beef hash & 1 veg. 1.15
Veal parmigiana & 1 veg. 1.20

Special

8' hero - salami, ham, provolone, bologna,
marinated Italian style tomatoes, onions,
lettuce, peppers - \$.55 per inch

Friday, July 22

Manhattan clam chowder
Broiled filet & 1 veg. 1.15
Meat loaf & 1 veg. 1.15
Hot deli - roast beef

BROOKHAVEN BULLETIN

Published weekly for the employees of BROOKHAVEN NATIONAL LABORATORY

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EDITORIAL CORRESPONDENCE

Editor to author:

... I should also like to call your attention to No. 2 referee's remarks:

"In the experimental section the author writes: *'This experiment was carried out in the cold room when the ambient temperature was 4-7°C.'*" This gives a temperature fluctuation of 45%! Unacceptable!

Author to Editor:

... I quite agree with the remarks of referee No. 2 concerning the temperature fluctuations, and therefore I should like to reword the sentence as follows:

"This experiment was carried out in the cold room, where the ambient temperature varied between 297-300°K."

Temperature variation is thus reduced to only 1%. I hope the paper is now acceptable.

—reprinted from *The Journal of Irreproducible Results*, Number 1, 1977

Fire Equipment Orders

The Film Service Office has received a sufficient number of fire and smoke detectors to supply all employees who placed orders during December and during the past two months. They may be picked up any weekday between 11:00 a.m. and 3:00 p.m. (On Wednesday, July 20, only, office hours will be 1:00 to 4:00 p.m.)

Ordered units that are not picked up in a reasonable length of time will be paced on open sale. If you wish to cancel an order, please contact the Film Service Office, Ext. 3347, as soon as possible.

At the time of this writing, the fire extinguishers have not been received. However, delivery date was given as July 12. Check with Ext. 3347 for possible pickup availability.

Arrivals & Departures

Arrivals

Abir Arbel.....	Applied Science
Lawrence A. Beck.....	Biology
Raymond F. Bergamini.....	Applied Science
Jehuda Binenoym.....	Applied Science
Juan Castillo.....	Central Shops
Kin Ying Cheung.....	Reactor
Mei Han G. Chou.....	Chemistry
Janet S. Cimino.....	Biology
Israel Dostrovsky.....	Chemistry
John F. Duval.....	Biology
Anne C. Fennelly.....	Accelerator
Alice H. Gih.....	Biology
Frank A. Iorio.....	Accelerator
Charles A. Kettner.....	Biology
Robert K. Kiss.....	Accelerator
Gerald R. Knight.....	Safety & Env. Prot.
Charles A. Long.....	Chemistry
Paul D. Moskowitz.....	Applied Science
Thomas L. Netzel.....	Chemistry
Eugene R. Oakley.....	Central Shops
Jon N. Sandberg.....	Accelerator
John F. Schuller.....	Plant Engrg.
Samuel Silberstein.....	Applied Science
Ulrich Sowada.....	Chemistry
Betsy M. Sutherland.....	Biology
John C. Sutherland.....	Biology
Claud C. Weaver.....	Plant Engrg.

Departures

Daniel C. Brune.....	Applied Science
Peter C. Delmonte.....	Central Shops
John P. Keane.....	Applied Science
Gilbert L. Lewis.....	Personnel
Joan Risch.....	Chemistry

Introduction To Engineering



Seven students who will be entering Howard University this fall arrived at Brookhaven on July 6 under the auspices of the 4th Preface Program which is sponsored by ERDA and Howard University. The students, who plan to major in chemical and electrical engineering, will work in various departments until August 5 to get a look at engineering in action. The students and the departments they have been assigned to are: seated (from left) Kenneth Parham (AGS), Garrison Purnell (Plant Engineering), Annette Conrad (AGS), Carlotta Adams (S&EP); standing (from left) Loretta Sims (Applied Math), Joseph Crossley (DAS), Priscilla Jordan (AGS). —photo by Rosen

Summer Rec Program

Swimming Lessons

Big registration this year – over 180 children. Lessons began last Wednesday under the direction of Richard Parsons assisted by a very well trained, qualified teaching staff.

Children who successfully complete the 8-lesson swimming course will receive American Red Cross certificates.

Pool Specials

Every Friday afternoon at three o'clock, children of all on-site employees are invited to join the fun in supervised competition races and stunts at the pool. This afternoon a "penny fetch" will be featured; next Friday – "kickboard races."

On-Site Residents' Program

The program for children of on-site residents has been extended to include afternoon hours. The purpose of these additional hours is to give children – ages 3 to 16 – a well-rounded program of arts and crafts, games, contests and special events. Ann Brassard is program director, ably aided by counselors, Carl Verdi, Mary Grace Lazzaro, Liz McCafferty, Pat McKenzie-Wilson and Joyce Butler. The staff is very grateful in having much needed help from volunteer mothers. A big "thank you" to the moms.

Other Activities

Tennis: Instructor Mark Myavec is on the courts each weekday from 2:45 to 4:00 giving free tennis lessons to employees' children.

A tournament is scheduled for the week of August 8 – 12 for young people, ages 7 – 16. Sign-up sheets are at the tennis courts (when Mark is there) or at the pool during open hours.

Gym Sports & Games: Conducted at the gym each weekday from 3:15 to 4:30 under the direction of Carl Verdi and Mary Grace Lazzara. All employees' children are invited.

A special basketball clinic is being planned by Coach Verdi during the week of August 1 – 5 from 3:30 to 4:30 for boys and girls, ages 7 – 15. Sign up at the pool or at the gym any day between 3:30 and 4:30.

Tennis

Draws for the BNL Tennis Tournament, to be held during the next two weekends and scheduled times of play, are posted on the BERA film service bulletin board. If scheduled times are a hardship, participants should arrange with a committee member for alternate times. It should be an exciting weekend. Good luck and enjoy to all participants. For further information call John Elmore at 3626.

The men's and women's tennis ladders will remain active so ladder participants should continue to arrange matches. For those participants who have not yet played, play for the summer is going by quickly!

N.Y.C. Hike

The BNL Mountain Club is sponsoring a hike in New York City on Sunday, July 24, for all Lab employees, their families and friends. Meet in Battery Park at the Statue of Liberty ticket office at 10 a.m. The leisurely 6-mile hike from the Battery to the Mall in Central Park will take about 3 hours, passing Wall St., the World Trade Center, City Hall, Chinatown, Soho, Washington Square. Then we'll go up Fifth Ave. past the Empire State Bldg., Rockefeller Center and into the Park ending at Bethesda Fountain on the north end of the Mall.

The Park is a fascinating place on a Sunday afternoon, full of activity; groups of street musicians play a variety of music, people cook and hawk ethnic foods, play gambling games and give karate exhibitions.

Pack a lunch and your camera and we'll picnic in the Park. If anyone gets tired they can take a bus along the way. The LIRR is half fare on Sundays or you can drive in. For further information call Don David, Ext. 3942 or 286-2267.

Softball

Six Pax 20 - Old Timers 2

With only 8 men to play, the Old Timers took it on the chin. For the Six Pax Brian Briscoe, Art Dick and Ed Meier, Jr. had home runs. Denny Klein was 5 for 5 for the evening.

Blue Jays 20 - Circuits 13

Homeruns for the winning time were by G. Oldham and Hank Arnisen. Also, on a winning team you need a talker – isn't that right Ron? In a losing effort the Circuits – champs of the first half – had home runs by Jeff Gaffney, Art White and Frank Stepnoski, who also was 3 for 4. It was a good and very well played game on both sides.

Interleague (III vs. IV)

6/28/77

Power Packers 8 - Shoreham Sweathogs 7

After taking an 8-0 lead, the Pack withstood a four run seventh inning by the "Hogs" to hold on to the victory.

Charlie Browns 2 - Streakers 1

In a superbly pitched and defensive game the surging Charlie Brown's held on for an impressive 2-1 victory over the Streakers, last year's League IV Champions. The victory enabled the Charlie Brown's to catch the Nuke Powers and tie for the first half championship. Congratulations to the Charlie Brown's and Streakers for a remarkable game.

Metallurgy 23 - Nuke Powers 3

This loss by the Nuke Power's was a key factor in the Charlie Brown's catching them for the first half title of League IV.

Phoubars 20 - Medical 6

Pete Heiotis' grand slam homerun couldn't tame the mighty Phoubars.

Classified Advertisements

Placement Notices

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

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

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

LABORATORY RECRUITMENT: Opportunity for present Laboratory employees.

240. SECRETARY - AAS degree or equivalent in secretarial science with good communications skills and familiarity with general Laboratory policy, procedures and geography. Will involve preparation and formatting of technical reports and will require initiative and good judgment. Department of Applied Science.

241. OFFICE SERVICES ASSISTANT - Two positions. Knowledge of general office procedures. Department of Applied Science.

242. STORES CLERK - Two positions. Supply & Materiel Division.

243. LAMP CLEANER - Plant Engineering Division.

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

244. DEVELOPMENT ENGINEER - BSME or equivalent to design, construct and operate experimental apparatus related to space conditioning equipment. Should have industrial employment history. Department of Applied Science.

245. CHEMISTRY ASSOCIATE - BS or equivalent in chemistry with background in advanced, automated analytical techniques. Department of Applied Science.

246. COMPUTER SCIENCE ANALYST - Seeking BS degree or equivalent experience in computer science with knowledge of operating systems development or maintenance and CDC Scope OS. Applied Mathematics Department.

247. PHYSICIAN'S ASSISTANT - Must be registered and be willing to reside in the Marshall Islands after an orientation period. Medical Department.

248. TECHNICAL SPECIALIST - AAS degree or equivalent in mechanical technology with extensive background in the installation, fabrication and operation of electromechanical devices used to monitor experimental equipment. Department of Applied Science.

249. TECHNICAL SPECIALIST - AAS degree or equivalent in electronics technology to maintain and calibrate electronic test equipment and assemble and fabricate electronic components used for data acquisition and data processing on experimental facilities. Department of Applied Science.

250. TECHNICIAN - AAS degree or equivalent in electronic technology with recent analog, digital and high frequency rf experience. Knowledge of high voltage equipment, closed circuit TV and cable TV desirable. Position includes the maintenance, repair and modification of particle accelerator rf and TV systems. Accelerator Department.

251. TECHNICIAN - AAS degree or equivalent in electrical technology with experience in high voltage, high power rf and vacuum systems desirable. Accelerator Department.

252. COMPUTER OPERATOR - Shift work. Administrative Systems and Data Processing Division.

253. RESEARCH SERVICES ASSISTANT - Temporary position. To clean glassware and assist in laboratory operations. Medical Department.

254. SENIOR STATIONARY ENGINEER - Temporary position. Plant Engineering Division.

255. PAINTER A - Plant Engineering Division.

Autos & Auto Supplies

65 MG MIDGET - British racing, green, good running cond, wire wheels. Make offer. Carl, 744-2069.

VW SEAT - Bucket, black, very good cond. \$15. 331-1203 after 5:30.

AM RADIO - For 72-74 Dodge van, fine cond. \$20. John, Ext. 3292.

76 SUZUKI - GT 550, shield & crash bars, 3500 mi, show rm cond. Howard, Ext. 3260.

66 BUICK SKYLARK - 4 dr, V8, auto, ac, parts, no hood, grill, radiator or fan, all parts, good to excel. H. Rhodus, Ext. 3284, 924-3522 after 5:30.

65 BUICK SPECIAL - V6, 2 dr, 3 spd on floor, good mechan cond. H. Rhodus, Ext. 3284, 924-3522.

69 HONDA CL 70 - 1500 mi, like new cond. \$225. Joe Dispart, Ext. 3284, 281-8943.

75 SUZUKI - 75 cc motorcross or trail, excel cond, must see. Ed Rogers, 924-3821.

