

The BNL High School of Physics

This Saturday morning from 9 a.m. to noon, 31 selected Suffolk County senior high school students will begin their study of modern physics in a new course offered by BNL. For 14 Saturdays, these students will investigate topics such as condensed matter, atomic physics, nuclear matter, and low, medium and high energy physics, as well as explore the NSLS, Tandem Van de Graaff, HFBR, AGS, and other experimental facilities. These Saturday morning physics classes are being held to inform gifted high school physics students about recent developments in modern physics, and to encourage them to consider careers in physics.

"High school students don't get very much modern physics," comments Glenn Price, head of the Office of

Academic Relations. "Modern physics is usually the last chapter in the standard introductory physics textbook; often that chapter is not up-to-date, or it is not covered due to lack of time." A textbook, no matter when it was published, cannot be as current as the experimental data and theoretical interpretation generated by the BNL physicists who will teach the course.

Over 30 BNL staff scientists have volunteered their time to teach. "This will be one of the few times in the students' academic lives when they will have more teachers than there are students," says Price. The students' class time will consist of lectures, discussions, demonstrations, tours, and experiments. Though the students are expected to know basic algebra and

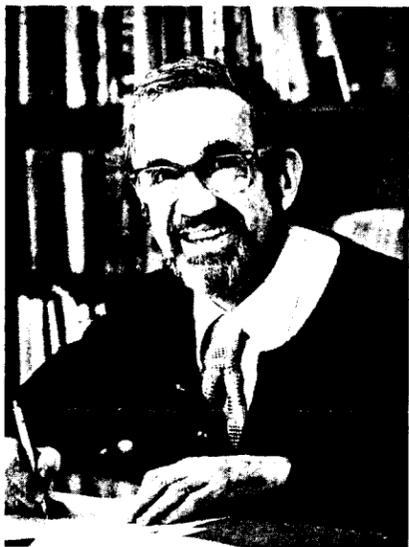
trigonometry, they will be taught physical concepts rather than mathematical equations and calculations. There will be no tests or grades. The Lab does not offer academic credit for this course, but Price believes that many of the high schools will give credit to those students who participate because the Saturday morning physics class will be conducted at a high academic level.

Last November, each high school in Suffolk County was invited to nominate two students who had completed or were enrolled in a high school physics course, and who "by their demonstrated ability, interest, and potential could benefit by participating in this modern physics class." "The 60 applicants demonstrated a lot of academic initiative by having participated in science fairs, and other college level

courses," says Price. Of the 31 selected students, five are female.

Price and Harvey Wegner, Physics, developed the class in response to the need for an enrichment program in physics for gifted children in Suffolk County. The Saturday morning physics class will provide outstanding teachers, laboratory experience, a supportive scientific community of physicists and students, and, Price hopes, fun. As the September 1983 issue of *Physics Today* stated, much of the excitement of science for high school students will come from supplementary activities outside the schools, such as the special science programs at the national laboratories. The BNL program is sponsored by the Department of Energy.

— Marsha Belford



Melvin Levine

BNL Lecture Reactor Behavior

At the Brookhaven Lecture on February 8, Melvin M. Levine, Associate Chairman of the Department of Nuclear Energy, will give some answers to the question "How Do You Know What a Reactor Will Do?" He will describe some of the safety analysis made for deciding how a reactor behaves under normal circumstances and how it might behave under abnormal circumstances. Levine says that "while sometimes the purpose of an analysis is to see how the reactor responds to a stimulus, sometimes limiting conditions or conservative

assumptions are used to rule out certain behaviors."

Levine will tell how the calculations are approached, what basis they have in data, and what fundamental relationships describe the phenomena. A number of processes go on in a reactor — neutrons are created, move around, and are lost, atoms in the core are transmuted into other species, heat is transported from one part of the system to another, and parts of the system are subjected to forces produced by pressurized fluid and heated components. Some of the connections among these processes will be described. The lecture will begin at 4:30 p.m. in Berkner Hall.

Levine received a B.S. in physics from M.I.T. and a Ph.D. in physics from the University of Virginia in 1955. He worked on reactor design

and safety at the Babcock and Wilcox Company from 1955 to 1959, when he came to the Theoretical Reactor Physics Division of the Nuclear Engineering Department of BNL. During this time his interests have been in the area of Reactor Safety Analysis. He is a Fellow of the American Nuclear Society.

The dinners which were held on site following Brookhaven Lectures have been discontinued. Instead, all those interested in getting together after the lecture are invited to go, with the lecturer, to a restaurant off site. If you would like to be part of this group, call George Latham on Ext. 3372.

The snow on January 18 forced the cancellation of Daniela Sciaky's lecture. She will present it on May 16.

Mr. Fainberg Goes to Washington



Tony Fainberg

By training, Anthony Fainberg is a particle physicist, one who asks questions about the actions of the matter that inhabits the sub-atomic world. But as a long-time political activist, Fainberg has also questioned the actions of those who inhabit our everyday world. Now, as a legislative assistant to Senator Jeff Bingaman (D-New Mexico), he has the opportunity to help provide some answers in the world of Washington, D.C.

Tony Fainberg assumed his present role last September, after being selected as a Congressional Scientist Fellow for 1983-84 by the American Physical Society (APS). At present, he is on leave of absence from BNL's

Department of Nuclear Energy, where he is a physicist with the Technical Support Organization for nuclear safeguards.

The APS is one of several professional science organizations which participate in this program, run by the American Association for the Advancement of Science (AAAS). All together, 42 Fellows were chosen this year, including two from the APS. Of his selection, the 40-year old Fainberg says, "I'm sure all the applicants had technical competence, but my ability to fit into the political scene in Washington may have given me an edge. I've been politically involved for 20 years, in one way or another."

Fainberg met his fellow Fellows during two and a half weeks of orientation. Then they talked with Congressmen and Senators who were interested in having Fellows on their staffs. For Fainberg, the final match-up has been a good one. He describes Bingaman, a Democrat who was elected in 1982 to his first term in the Senate, as "a quiet, modest, extremely thoughtful, hardworking person. He's a good man. His views are quite reasonable and, in large part, very close to my own."

In addition, Bingaman, representing a state with a small population, has a relatively small staff, so Fainberg often has a chance to deal directly with the Senator. "I've been very fortunate in that, when we're in the same place, we see each other a couple of times a week, usually on substantive matters." And, while hardly a deciding factor, Fainberg says, "It was in

the back of my mind that if I ever had to visit his area, New Mexico's a nice state."

As it has turned out, Fainberg has been to New Mexico once already, on a western trip to visit weapons laboratories, like Los Alamos and Sandia National Laboratories. The information Fainberg gathered in his three-week trip may be useful technical input to Bingaman, a member of the Senate's Armed Services Committee. Says Fainberg, "I am hoping one of the things the Senator can do in that committee is to reduce waste in the military."

When he began working for the Senator, Fainberg says, "I started out doing little bits of recommendations on things like non-proliferation, which I know something about from my work at BNL. Then I branched out into other areas, like freedom of the press, censorship, and polygraphy for Department of Defense (DOD) employees."

In the latter issue, the government would require that DOD employees take lie detector tests at random. Fainberg is also concerned with the question of prepublication review, where employees with access to high levels of classified information would agree to submit anything they write, for the rest of their lives, for government review before publishing. "I'm totally furious about these things," says Fainberg, who, next week, will brief the Senator for Congressional hearings on these topics, preliminary to votes scheduled for the spring.

"There are other things that I know something about, like foreign affairs, and I try occasionally to stick my finger in there," Fainberg says, "but basically, I stick to technical questions, and civil liberties matters that relate to technical subjects." To handle these matters, Fainberg says, "Bingaman also has another scientific advisor who, like me, was trained as a particle physicist. He's probably the only person in Washington with two particle physicists on his staff right now." While Fainberg was trained in that discipline, he has since changed his focus to nuclear safeguards and has not actually done particle physics for about five years.

Though Fainberg has been an outspoken proponent of opening the Shoreham nuclear power plant here, he says, "Down in D.C., I haven't done much about nuclear power. In a way I've been trying to keep away from it and do some other things. I think arms control is much more important. I'm trying, as much as I can, to have some effect there. I think the country is now going in an extremely bad direction. My general impression, knowing what's going on in Central America and the Middle East, does not lead me right now to be too optimistic, in the short term anyway. And in general, I think the introduction of the Pershing II in Europe — approximately six minutes from Moscow — makes the chances of the world being accidentally blown up much closer than before."

(Continued on page 3)

And Leave the Driving to Us

What's a cross between a taxicab and a chauffeured limousine? A multi-passenger, co-worker driven, car pool sedan. While the sedan and driver change every day, the car pool stays the same. However, no BNL car pool is like another. Some are amorphous, lacking definite structure to their driving schedule, or fluid, having members come and go. Others have crystallized around a core of riders/drivers, and a solid arrangement among the members. Over the years and across the miles, many employees have made car pooling a viable option to driving to work alone.

A long distance car pooler is Bob DiNardo, Instrumentation, who lives 85 miles from the Lab in Darien, Connecticut. At the Christopher Morley Park in Manhasset, he meets with Rich Horwitz, Applied Math, who lives in Queens, and Art Harris, Reactor, Yang-Ho Sun, DNE, and Ralph Jones, DAS, who all live in Port Washington. "We're a quiet car pool, especially in the morning when those who aren't driving are resting," comments Horwitz, who has commuted from Queens for 17 years.

"I like where I live, so I don't mind the commute — well, yes, I do, but I've gotten used to it," DiNardo admits. DiNardo has worked at the Lab and commuted with the same car pool for five and a half years. He spends an hour traveling alone, listening to the radio, between Connecticut and Nassau County, and another hour in the car pool from Nassau to Suffolk. "We give Bob more leeway to meet us if the traffic or weather is bad," says Horwitz.

Marty Plotkin, Accelerator, has been in a dozen different car pools during the 35 years he has worked at the Lab because he "hates driving." "Though I've moved west to Massapequa Park, the roads have improved over the years, so my trip is actually shorter than when I lived in East Islip," explains Plotkin. "It's clear sailing against traffic: 41 miles in 50 minutes." Plotkin currently commutes with Al Wallner, S&EP, and Donna Riendeau, C&P; they drive off together from a shopping center after picking up bagels and coffee. "I keep track of who drives, on a big calendar. You get a plus if you've driven twice in a week, and a minus if you haven't driven at all that week.

"Depending upon our moods, those who aren't driving read, or talk, or sleep. We talk about what happens along the road: for instance, accidents,

rubber necking, and vanity plates. We also discuss what's happening at the Lab. Car pools, you know, are the greatest rumor mills and information networks."

"You get a broader picture of what's going on at BNL," adds Roy Skarka, Photography & Graphic Arts, who has traveled with the same car pool from East Moriches for 20 years with Viola Malloy, Fiscal, and more recently with Tim Tuttle, Accelerator, and Toni Fridae, DAS. "In a car pool, you get a cross section of people at the Lab, and each person has a piece of the puzzle. During the ride, you put the pieces together through conversation."

Skarka believes that his car pool has worked because of "ironclad rules and regulations." Each person has a day to drive, and is responsible for that day whether or not he goes in; trading days is up to the individuals. Everyone rotates driving on Friday. And running errands on the way home is not allowed.

"Our car pool is a good one because everyone is dependable, and considerate," says Malloy. "I can't come late to work — my job and nature won't allow it." Malloy originally joined the car pool in 1963 as a paying member. "At that time I didn't drive." Ten years ago Malloy learned to drive, and has been driving her share of the 12 mile, 20 minute trip since then. "Driving's all right — not as nice as being driven," she admits.

Six-person car pools have gone the way of full-size cars: near extinction. Such a car pool that has survived since the heyday of the big cars in the 1950's is one that travels 26 miles in 45 minutes from Huntington, and includes Irv Feigenbaum, Physics; Thomas Koetzle, Chemistry; Frank Rizzo, Instrumentation; and Herb Susskind, Medical. Tony Fresco, DNE, and Ake Kvick, Chemistry, are more recent members. "When you live a long distance from the Lab, you car pool for financial, not necessarily social, reasons," says Feigenbaum. Having at least one running car, and saving on the auto's maintenance, repair, and gasoline are important to car poolers, especially to those who drive the six-passenger relics.

"It's great when everyone is on time — when you pull up to the door, and they are ready and waiting for you," says Rizzo. "It saves a lot of grief when you're considerate of the next guy."

"We had a five-man car pool at one point, but as time went on the cars got smaller and so did our car pool," says



Coming 32 miles from Southold for the past 22 years are Ed Skrezec (right) and Ed Heins (left); Joe Kenneally (center) joined them ten years ago for the 50 minute drive.

Ed Skrezec, Staff Services. Coming the 32 miles from Southold for the past 22 years with Skrezec is Ed Heins, Physics; Joe Kenneally, C&P, joined them ten years ago for the 50 minute drive. "Before I joined this car pool, I drove to work alone for six years because I thought I didn't want to get involved with it," says Kenneally. "But once I got in one, I found the car ride a lot more fun."

"We have less traffic out there, but we don't have such good roads," explains Skrezec. "Our trip gets longer depending upon the farming cycle," comments Heins. "If it's potato harvest, avoiding the potato truck adds to our time." "We are fortunate in one way," adds Skrezec, "We never have the sun in our eyes. You can always tell who drives to the Lab from the west: they're either squinting or wearing sun glasses."

Since they are used to having more people in a car, Heins, Kenneally, and Skrezec don't mind giving lifts to those who need a ride after work to the north fork. "We're flexible," says Heins. "You have to be to be in a car pool — it's like marriage." "We're very compatible, and have lots of respect for each other — even if we disagree about something," adds Kenneally. "And we talk about everything — you name it."

Paul Michael, DAS, has been car pooling with Gerry Kinne, Reactor, since the latter met the former at their post office in Setauket in the spring of 1960, and suggested they ride the 22 miles from Strong's Neck to work together. Bob Drew, Medical, and Jim Davenport, Physics, have been sharing the 50 minute ride each way with them since the late 1970's.

"We have spent some of our time in the car discussing and rejecting car pool scheduling schemes," says Michael. "We are the catch-as-catch-can car pool. Whoever wants to drive tomorrow drives tomorrow. And anyone, rider or driver, can get credit for the day, but credit doesn't mean anything. No, we don't keep score — keeping score is too unfriendly. Oh, we do have one rule: if a person keeps the car pool waiting, he owes the others a round of drinks. But we have yet to enforce our rule.

"We car pool partly to save gas, partly to socialize," continues Michael. "It's a decompression chamber; we have a sense of humor, and laugh at a lot of things, especially after work." "For us, car pooling is the best therapy going," adds Kinne. "I've thought of moving closer to the Lab, but I never did it because I'd have to get out of my car pool."

— Marsha Belford

Speak Out

The Speaker's Bureau in the Public Relations Office is looking for more volunteers to talk about their work at the Laboratory before interested groups. "We especially need scientists and engineers who would be willing to address ninth through twelfth graders during high school career days," explains Janet Sillas, Bureau Coordinator. Sillas has received requests from secondary schools for speakers to address such topics as opportunities for women in mathematics and

science, and career options in computer science.

Most speaking engagements are within Suffolk County, and Sillas attempts to schedule speakers who live near the location of the talk. Speakers may use a Laboratory car, or be reimbursed for their mileage.

If you would like to address high school and adult audiences, please fill out the coupon and send it to Public Relations, Building 134, or call Janet Sillas at Ext. 2345.

contact: Janet Sillas
Speaker's Bureau Coordinator
Public Relations Office
Building 134
Ext. 2345

name: _____ extension: _____

department: _____ building: _____

position: _____

subjects on which you would speak: _____

Technology for the Elderly

The Administration on Aging of the Department of Health & Human Services is seeking the help of Federal laboratories to identify new products, materials, and processes that can meet the needs of America's elderly. The AOA has conducted research to identify the special requirements of people aged 55 and over, and is coordinating the search for and development of new technology that can make life easier for older Americans.

In a poll taken by the Gallup Organization, senior citizens were asked to list the problems they had in achieving sustenance and comfort. Their list included opening medicine containers and other packages, reading product labels, storing and retrieving things from storage areas, putting on and fastening clothing, cleaning the house, climbing up and down stairs, using tools, alerting emergency services, and using the shower or bathtub.

The analysis of these needs is being presented to the Federal Laboratory

Consortium and other technology centers so scientists and engineers can identify technologies that can meet those needs, and can develop new product specifications using the suggested materials and processes. These findings will then be presented by the AOA to private industry along with manufacturing and marketing information; private firms will be encouraged to make these products at low cost for the elderly consumer.

Those interested in reviewing the Elderly Needs Analysis, and suggesting appropriate applications of technology, please contact William Marcuse, Ext. 2103.

Los Angeles: six suburbs in search of a city.

Martini: an olive with an alcohol rub.

Modern employer: one who is looking for people between the ages of 25 and 30 with 40 year's experience.

Modern age: when girls wear less on the street than their grandmothers did in bed.

BROOKHAVEN BULLETIN

Published weekly for the employees of BROOKHAVEN NATIONAL LABORATORY

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Fainberg (Cont'd)

Fainberg has also been looking into supercomputers and artificial intelligence, subjects in which he says Bingham is "very interested." In response to a few constituents' letters, he also investigated the testing of animals in research.

Another letter was concerned with emergency locator transmitters used on private aircraft, devices that automatically beep if a plane goes down, making it easier to find. "In the last few months both the Russians and the U.S. have put up space satellites to make it easier to pick up the beeps. The result is that 98% of the alarms are false alarms, because the transmitters keep going off by themselves and the satellites are quite sensitive." Because he is a private pilot, Fainberg volunteered to attend talks on this subject between agencies like the FCC and NASA. "There was some bureaucratic resistance to doing much about it, and perhaps the fact that a Senator had somebody there may have made things a bit better," Fainberg says. "Anyway, this interagency committee is now taking steps to fix this problem."

Fainberg is pleased to see this progress, because in Washington, he observes, "very little is resolved, ever. If you take a one year period you will get involved with many things which will not be resolved." Some of this, Fainberg credits to this being an election year, when few major decisions are likely to be made, but which he also called "a very interesting time."

Almost halfway through his fellowship, Fainberg says, "I went to Washington pretty cynical and nothing I've seen has changed my mind. On the positive side, I've seen that very many of the Congressional staff, and the Congressmen too, work very hard. On the negative side, people are making decisions and pronouncements on issues that they really don't have much competence in. But, basically it's what I expected."

One unexpected pleasure for Fainberg has been the camaraderie among the 42 Congressional Fellows. "We see a lot of each other, both professionally and socially," he says. "They're a very pleasant, interesting bunch of people."

Fainberg's success in applying for the fellowship program recently prompted him to submit another application, to be a mission specialist astronaut for NASA. "I'm positive I'm not going to get it," he says, "but nevertheless, I thought I really ought to apply, just for fun, so I did. If you don't apply, you won't get it, that's clear." Fainberg will hear about the fate of his application in May. And if it turns out he's not going to Houston, Fainberg will return to BNL when his fellowship expires, at the end of August. — Anita Cohen

Pool Closing

The swimming pool will be closed for BNL lifeguard training and recertification on Wednesday, February 8, between 6:30 and 9:30 p.m. However, the pool will be open for employees, family members and guests from 5 to 6:30 p.m.

Service Awards

The following employees received service awards during the month of January:

Thirty-Five Years
Sophie P. Kostuk Chemistry
Gerhard H. Tiller Instrumentation
Donald R. Tuttle Physics
George S. White Biology

Twenty-Five Years
Gerald W. Bennett Medical
Lawrence G. Dilworth Plant Engrg.
George J. Hummer Light Source
John B. Laurie P&GA
Leslie L. Lawrence Applied Math

Twenty Years
Frederick C. Connor Central Shops
Maurice DuBois Fiscal
Joseph P. Hanson P&GA
Steven G. Kiss Accelerator
Walter Kunnmann Chemistry
Charles E. Spillett Plant Engrg.
Eugene A. Tomblor Accelerator
Rupert Werner S&E Svcs.

Ten Years
Janet V. Hayes Applied Science
Karl J. Swyler Nuclear Energy

Bowling

White League
J. Griffin had everyone's attention with games of 287/215 for a 680 scratch series. Other good games were bowled by B. Jacobs 207, G. Riker 194, I. Sperry 183.

Red/Green League
J. Connelly rolled a 227, R. Larsen 223/204 for a 618 scratch series, J. Morris 216, J. Petro 210, E. Meier 200, E. Sperry IV 200.

Purple League
B. Barberich had games of 237/203, G. Hassell 233, J. Petro 214, J. Roesler 209, C. MacDougall 208, J. Vogel 203, K. Cody 177.

Black History Month Calendar

Black History Month will be celebrated at BNL through music, drama, art, and lectures sponsored by the Afro-American Culture Club during February. All the events take place in Berkner Hall, and admission is free unless otherwise stated.

Gospel Extravaganza: The Hampton Institute Gospel Choir of Hampton, Virginia, will be the featured group of this musical evening during the Choir's tour of the eastern seaboard. Since 1870, the Hampton Institute, a 116 year old private college, has sent its choir members on tour to spread the gospel through song, and to expand appreciation for this form of black American music. Other guest performers include the D.C. Ensemble of North Babylon, Hollywood Baptist Church Mass Choir of Amityville, First Baptist Church Young Adult Choir of Bayshore, J.C. Bryant Ensemble of Wyandanch, and the Faith Baptist Church Male Chorus of Coram. (Saturday February 4, 7 p.m.; admission \$6.)

African Art Exhibit & Sale: The Rowlett Trading Company of Freeport will display arts and crafts representative of nations of the west coast of Africa, including pottery, jewelry, sculpture, silk screen works, clothing, and painting. (Saturday February 4, 7-11 p.m.)

Macramé Exhibit: Ella McLean of Photography & Graphic Arts, and Virginia Eleazer, wife of George Eleazer of Plant Engineering, will show a variety of their handmade knotted work such as plant hangers, wall hangings, and other domestic decorations. (Monday February 6 through Friday February 10, 11:30 a.m.-1:30 p.m.; Tuesday February 7, 7 p.m.)

Guest Speakers:

John Hendrick Clarke will speak on "The African Contribution to the Making of America." Clarke is a professor in the Department of Black & Puerto Rican Studies at Hunter College, N.Y., and a former visiting professor of African History at the Cornell University Africana Studies and Research Center, Ithaca, N.Y. Clarke has written and edited 19 books of which the best known are American Negro Short Stories; William Styron's Nat Turner: Ten Black Writers Respond; Malcolm X: the Man and His Time; Harlem U.S.A.; and Marcus Garvey and the Vision of Africa. (Tuesday February 7, 7 p.m.)

Yosef ben-Jochannan entitles his talk "Africa's Contribution to Religion." Jochannan is an adjunct professor at Cornell's Africana Studies and Research Center, and a former specialist in east African anthropology at the United Nations Educational, Scientific, and Cultural Organization. Jochannan has authored 16 books, as well as numerous published articles, including We the Black Jews; Africa: the Land, the People, the Culture; and African Origins of the Major Western Religions. (Tuesday February 14, 7 p.m.)

The Adelpia Repertory Touring Company: Now in its sixth season, the ARTC will present "Sizwe Bansi is Dead" by Athol Fugard, a gripping story about the South African apartheid system. The main players are two black South Africans struggling for freedom against racist political practice. (Saturday February 25, 8 p.m.; admission \$5)

Tickets to the two paid events are now available at the BERA Sales Office in Berkner Hall, from Kay Hunt in Personnel, and at the Affirmative Action Office. Or you may purchase your tickets through the mail by sending a check made out to BERA, a note indicating the number of tickets per event, and a self-addressed envelope to AACC, Box 441, BNL, Upton, New York 11973.



Nine Brookhaven Semester students from predominantly black colleges arrived two weeks ago to begin work on the 31st semester. They have all been assigned to a department and are spending their days in research and in attending classes. The classes are in Physical Chemistry, Biochemistry and Molecular Biology. Ralph Weston and Avril Woodhead are the principal instructors. The students (from left) are Belinda Shelby (Alcorn State U.), Tonya Harris (Hampton Inst.), Marcia Morton (Hampton Inst.), Leslie Gofney (Hampton Inst.), Rose Scott (Alcorn State U.), Dawnita Robinson (Jarvis Christian U.), Raynando Banks (U. of Arkansas), Grace Brown (Hampton Inst.) and John Sampson (Jackson State U.). The Brookhaven Semester Program has been in effect since 1968.

Mort Rosen

Arrivals & Departures

Arrivals

Steven W. Green Saf. & Env. Prot.
Melvine J. Riddick Physics
Lawrence M. Taibbi Plant Eng.

Departures

This list includes all employees who have terminated from the Laboratory, including retirees:
Dennis F. McKenna S & E Svcs.
Mark N. Sealey Plant Eng.

Afro-American Club

The Afro-American Culture Club will hold a general meeting on Tuesday, January 31 at noon in room C of Berkner Hall.

Volleyball

Standings as of 1/23/84

Mixed League

A Division	
Dinkers	5-1
Semi Tough	5-1
EPO's	3-3
Teddybears	3-3
Up Fagrabs	3-3
Nuts and Bolts	2-4
TNT	2-4
Mixed Ups	1-5
B Division	
Servers	6-0
Phoubars	5-1
Bottoms Up	4-2
Screwballs	3-3
Chungas Revenge	2-4
Excitons	2-4
CRAW	1-5
Quirks	1-5

Cafeteria Menu

Week Ending February 3

Monday, January 30	
Spinach egg drop soup	(cup) .65 (bowl) .75
Beef liver & onions w/1 veg.	1.80
Chile on rice	1.90
Hot Deli: Knockwurst & sauerkraut	(bread) 1.85 (roll) 2.00
Tuesday, January 31	
Minestrone soup	(cup) .65 (bowl) .75
Pot Roast & 1 veg.	2.05
Quiche Lorraine & 1 veg.	1.85
Hot Deli: Chicken patty club	(bread) 2.15 (roll) 2.30
Wednesday, February 1	
French onion soup w/croutons	(cup) .65 (bowl) .75
Barbequed spare ribs & 1 veg.	1.95
Old fashioned beef stew on egg noodles	1.95
Hot Deli: Sandwich steak w/peppers & onions	(bread) 1.95 (roll) 2.10
Thursday, February 2	
Cream of mushroom soup	(cup) .65 (bowl) .75
Sautéed chicken breasts on rice	2.10
Spaghetti & sausages	2.00
Hot Deli: Monte Cristo	1.90
Friday, February 3	
Manhattan clam chowder	(cup) .65 (bowl) .75
Broiled fish fillet & 1 veg.	1.80
Beef hash & 1 veg.	1.85
Hot Deli: Barbequed fresh ham	(bread) 1.85 (roll) 2.00

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. In keeping with the Affirmative Action plan, selection decisions are made without regard to age, race, color, religion, national origin, sex, handicap or veteran status.

Each week, the Personnel Office lists new personnel placement requisitions. The purpose of these listings is, first, to provide open placement information on all non-scientific 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.

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. 2882.

OPEN RECRUITMENT: Opportunities for Laboratory employees and outside applicants.

2000. TECHNICAL POSITION - Requires AAS degree in electronic technology or equivalent experience and a minimum of 5 years' experience with high voltage, high power pulse work. A thorough knowledge of test equipment, construction, diagnostic and modification techniques necessary. Accelerator Department.

2001. TECHNICAL POSITION - Requires AAS degree in electrical technology or equivalent experience and a strong background in rf systems and controls. Familiarity with high voltage and high current electronics desirable. Will assist in the operation, troubleshooting, maintenance and modification of rf systems. Accelerator Department.

2002. TECHNICAL POSITIONS (2) - Requires AAS degree in electrical technology or equivalent and a minimum of 5 years' experience with analog and digital circuitry. A thorough knowledge of test equipment, construction, diagnostic and modification techniques necessary. Background in high current power supplies desirable. Accelerator Department.

2003. PROJECT ENGINEER - Requires a Bachelor's degree in electrical engineering or equivalent and experience in heavy electronics, power supplies and solid state conversion techniques. Experience in multikilowatt range power supplies, power filter techniques and/or fast pulsed power techniques and controls is also desirable. Accelerator Department.

2004. PROJECT ENGINEER - Requires Master's degree in electrical engineering or equivalent and a broad background in analog circuit engineering, feedback systems and controls, high frequency low level rf circuitry and HV pulsed systems. Applicants must have a solid record of accomplishments and a sound ability in network analysis, feedback theory and signal treatment. Position involves narrow and broad band beam coupled feedback systems for the suppression of longitudinal and transverse instabilities. Accelerator Department.

2005. INDUSTRIAL ENGINEER - Requires a Bachelor's degree in science or engineering to handle Source and Special Nuclear Materials Accountability to work in the Isotopes and Special Materials Group. A strong background in mathematics and physics is required to perform calculations involved with half-life shielding, self absorption and gamma spectroscopy. Basic computer programming is essential. The ability to obtain a "Q" clearance is mandatory. Safeguards and Emergency Services Division.

2006. COMPUTER ANALYST - Requires BS degree in computer science or equivalent to perform scientific and real-time programming relating to operation of special design, computer interfaced accelerator hardware. Requires extensive FORTRAN experience and acquaintance with TOPS-10 operating system. Experience with assembler language on PDP-10 and experience with RSX-11 or VMS-11 is desirable. Accelerator Department.

Auto & Auto Supplies

GERMAN AUTO PARTS - wholesale prices on new parts for VW, Porsche, Audi, BMW and MB. Augie, 289-4211.

75 VETTE - ac/ps/pb/pw, t-tops, tru spokes, am/fm cassette stereo, excel. cond., asking \$9,000. 744-6892 eves.

RADIO - Audiovox, pushbutton, am/fm stereo. Ext. 3389

78 FIREBIRD - pb/ps/ac, auto., new paint job, low mileage, runs well. 821-9280.

78 CAMPER - GMC Sierra Granda Special 2500 Series, pb-ps, am/fm, \$2,785. 821-9280.

75 FORD PICKUP - w/cap, 302 V8, auto., 48,000 orig. miles, all terrain tires and rims, \$1,950. 399-2179

74 HONDA CIVIC - reliable, economical, \$750. Tony, Ext. 3293.

71 OLDS - Cutlass wagon, at/ps/pb/ac, snow tires, many new parts, \$550. Al, Ext. 4675 or 744-0354.

TRUNK LIDS - 65-66 Mustang HT, \$15 ea. Tom, Ext. 4664 or 929-3566.

73 VW BUG - excel. running cond., new front end, brakes, muffler sys., \$1,200. Carol, Ext. 2907 or 698-8510 eves.

72 PLYMOUTH DUSTER - 6 cyl., very good cond., asking \$1,500. Anna, 281-4202.

70 FORD MUSTANG - at/ac/ps/as, trailer hitch, good cond., \$900. 363-2736.

80 OLDS CUTLASS - 4 dr., diesel, at/ps/pb, am/fm cassette, immac. cond., 29,000 miles, \$3,500. Al, Ext. 4645 or 744-0354.

FORD MANUAL TRANSMISSION - 3 and 4 spd., for 65-66, 6 and 8 cyl. Mustang. Tom, Ext. 4664 or 929-3566.

72 VW SQUAREBACK - runs well, good transportation. 286-1183 or 924-7238.

78 PONTIAC GRAN PRIX - hi-miles, needs some work, \$1000. Charlie, Ext. 3950 or 878-1540.

71 CADDY ELDORADO - 70,000 mi., new carb., good engine, \$1000 or best offer. Ext. 7672 or 878-0391.

78 OLDSMOBILE WAGON - 1981 engine, nine passenger, completely unrusted, snow tires, stereo, a/c, power, \$3500. Ext. 3401 or 744-6229.

77 MG MIDGET - \$2500 negotiable. Call Bill, 924-0121 after 6 p.m.

70 AMC AMBASSADOR - 4 door, a/c, p/s, automatic, new front tires, snows, new brakes, runs well, clean, \$450 firm. Betty, Ext. 3681.

74 DODGE COLT STA. WAGON - needs motor, new clutch, \$250 firm; electrostatic copier, \$100. Call 732-3338.

76 CHEVY PICKUP - 4x4, a/t, p/s, p/b, 50,000 mi., asking \$3500. Ed, 286-3377 after 5 p.m.

72 CHEVY CAPRICE - new tires, good cond., \$750. Call 289-5134 after 5 p.m.

69 PONTIAC - good cond., runs well, snow tires, \$300. Ext. 3789 or 751-5389.

74 DODGE DUSTER - gold, runs well. \$600. Perez, Ext. 3531.

81 HONDA CIVIC - 1500 s.w., 5 speed, standard, roof rack, new brakes, excel. cond., \$4200. 757-5399.

75 DODGE DART SPORT - 340 c.i., 4 spd., Cragers Dunlop radials, new clutch, stereo, asking \$1700. 732-7288.

81 DATSUN 210 HATCHBACK - excel. cond., \$4500. Ext. 2705 or 298-9581.

74 NOVA - a/c, p/b, p/s, V8, runs well, some rust. Call Jain, Ext. 2710 or 924-5966.

TIRES - (2) Peerless Sprint GT-L60-15, custom chrome Keystone rims, good cond., cost \$320, sell \$150. Ext. 5139 or 348-7884.

76 CAPRI - 4 cyl., 4 spd., am/fm cass., snow tires, good cond., \$1350. Ext. 3242 or 7192.

71 CHRYSLER NEWPORT - good cond., best offer. Rich, Ext. 4363 or 924-7238.

76 HONDA WAGON - needs new engine, body fine, \$200. Ext. 4830 or 286-8747.

73 LINCOLN COUPE - loaded, excel. in and out, asking \$1700. Call 654-5460.

TOOL BOX - for S-10 type pick-up, double swing up doors, locks. 289-2939.

76 CHEVY MALIBU CLASSIC - auto., small V-8, new all weather radials, excel. cond., asking \$2100. Ext. 2926 eves.

Boats & Marine Supplies

28' WESTPHAL ONE - design racer/daysailer sailboat, race equipped, \$6,000. Joe, Ext. 7961 or 722-3957 eves.

40 HP JOHNSON - completely rebuilt by dealer, no hours, w/14' Larson glass w/controls, extra, \$700 firm. Ext. 2939.

Yard Sale

BLUE POINT - household furniture items, moving, must sell, Sat. 1-28, Sun. 1-29, 10 a.m. - 4 p.m., 73 Bateau Ave. Call 363-2497 after 5 p.m.

Miscellaneous

SNOW BOOTS - boy's size 7, like new, \$7. 928-6930.

WEED WHACKER - Craftsman, attach. for chain saw, \$30. Steve, Ext. 3822 or 929-6527.

EXT. WOOD DOOR - (4) lights, 2'6"x6'8", \$30; alum. storm/screen door, full view glass, 2'6"x6'8", \$25. 744-3792.

FAUCET - gold, plus waste assy., Decor 4881, new, \$60. Lola, Ext. 2265.

DECORATIVE PLANTERS - spinning wheels, (1) large, (2) small, 3/\$35. Nancy, Ext. 5274 or 281-2767 eves.

COMPLETE KITCHEN - includes three appliances, electric stove, dishwasher, refrig., and 13' walnut cabinets and countertops, \$850. 286-2221 after 3 p.m.

COLOR TV - 25" RCA console, traditional cabinet, needs tubes. Joe, Ext. 2575.

DINING ROOM CHAIRS - early American, Bennington pine, just reglued, set of four, \$60. Harry, Ext. 3783.

STONEWARE - (12) place setting, Pfaltzgraff, Yorktown, over 30 extra pieces, \$250. 325-0563 after 3 p.m.

ELECTRIC STOVE - 30" GE, avocado, \$15. Geo, Ext. 2022.

S. DALI ART - etching No. 21 of 50, "Dix Recettes D'Immortalite", beautifully framed, signed with authenticity, \$1,400. Ext. 5139 or 348-7884.

SKIS - Hart, 170, Cobier bindings, men's boots size 10-1/2, poles incl., \$65. Rick, 727-7626 eves.

COMMODORE 64 DATASETTE - cassette storage unit, used one week, in box, \$55. Harry, Ext. 7578.

STEREO SYSTEM - record/cassette/radio by Yox, like new, \$75. Ext. 3293.

RECLINER - brown tweed, Herculon, like new, \$150. Karen, Ext. 2950.

CB RADIO - 21 channel, never used, \$30. Joe, Ext. 4661.

HEADBOARD - for double bed, solid walnut, \$25; table lamp, brown ceramic, 37", 3-way, \$15. Joyce, Ext. 3801 or 289-5770 after 6 pm.

COUCH - country style, high back, wood trim, plaids, will deliver, \$250. Joe, Ext. 7961 or 722-3957 eves.

OIL BURNER GUN - Beckett, used one month, \$125. Pete, Ext. 3981.

MICRO MAGAZINE - (80), Sept. 81 thru Jan. 84, any reasonable offer. Dick, Ext. 2911.

PIANO - upright "player" w/out roll, strikers, refelted, asking \$350. 281-0360.

CYMBALS - Fildjian w/stands, and Ludwig drum set, \$265 for all or parts avail. M. Elzinga, Ext. 2364 or 929-8944.

BI-FOLD DOORS - (2) white metal, 8'x5', new, \$30 ea. Geo., Ext. 2022.

ORGAN - Hammond Sounder, electronic rhythm section, excel. cond., \$250; brass tea cart, \$30; Danish modern lounge, sleeps two plus corner table, \$60; Ben Franklin stove, wood or coal, \$75. Jerry, 758-7365.

TV - RCA color 19", needs work, asking \$25; pool table, 4x7, slate with accessories, asking \$400. Dick, Ext. 4313 or 929-4551 after 6 p.m.

ANTIQUE VISE - \$50 firm; antique TV with radio, as is \$50 firm. 732-3338.

VIOLA - modern German Mittenwald, 15-5/8", nice tone, with bow and case, \$800. Wanda, Ext. 3583/3692.

EXOTIC SHELLS - from around the world. Whitey, Ext. 2913.

ALPINE DAIRY GOATS - (2) registered, excel. milkers, mild mannered, must sell. 363-2736.

AIR TIGHT "TEMPWOOD" WOOD STOVE - large, extremely efficient, heats entire house, asking \$200. 389-2939.

GIRL'S BEDROOM SET - white, desk, dresser, bed, excel. cond. 751-7268 after 6 p.m.

REFRIGERATOR - Frigidaire, 4 yrs. old, 6 ft. high, freezer comp., runs well. Roy, Ext. 4664 or 331-2401.

BLACK HEADED NUNS - (2) ma es, \$18 each, \$35 pair, trade male for female. 928-6457 after 5 p.m.

FROSTFREE FREEZER - G.E. upright, 15" 7 cu. ft., gold, very good cond., \$100. Ext. 2456 or 732-6241.

BEDROOM SET - Mediterranean, 9 pieces, triple dresser, armoire, nite tables, king size bed, \$1000. Dick, Ext. 4313 or 929-4551 after 6 p.m.

SNOW BLOWER - Sears, 8 h.p., \$200 hydraulic swivel crane, \$250, gas engine generator, wt. 1250, \$200; jointer planner \$150. 281-5605.

24 HR. NIGHT-ALL STOVE - \$400, antique furniture, dresser, 4 drawers 3'x20", \$160, record player \$150. 281-5605.

DRESSER - walnut with good mirror, 4 drawers. Walt, Ext. 7154.

COLOR TV - Zenith 23" console, fair cond., extras, \$30. B. Azzara, Ext. 7732.

STOVE - G.E. 30" electric, very good cond., \$35. 589-4363 after 6:00 p.m.

LIGHT FIXTURE - colonial black wrought iron, \$30. G. Williams, Ext. 3338.

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

E. NORTHPORT - 2 bdrm, 50 yrs. old, good cond., OHW, solar greenhouse, walk to train, fenced yard, \$80,000. 757-4329.

BROOKHAVEN HAMLET - 4 bdrm., split-level, 2 car attached garage, excel. cond., rec room w/tp., oak floors, city water, well insulated, walk to schools, privacy on wooded 1.25 acres. For appt. call 286-0436.

For Rent

MEDFORD - furnished studio apt., suitable for single working person, nonsmoker, private entry, \$95/week includes utilities, one month security, 289-8296 days or 475-8378 after 6:30 pm.

MASTIC - large, young home with 4 bdrms., modern kitchen, dining room, living room, 1 1/2 baths, utility room, storage room, 10 min. from Lab, discount price \$650+. 281-5605.

HAMPTON BAYS - 1 bdrm. furnished, very large apartment, single or couple, no pets \$325/mo. plus util. and heat. 728-2104 after 6 p.m. and weekends.

Lost & Found

LOST - book, approx. 24"x14" of Japanese wood block prints loaned to someone by Warren Winsche. Ext. 2772.

FOUND - brown suede mittens in Pub. Relations lobby. Ext. 2345.

Carpools

MANHATTAN - driver wishes to join existing carpool. Susan, Ext. 3852.

HUNTINGTON STA./MELVILLE - 3 person pool seeking 4th. Joe, Ext. 4259.

BELLPORT - need individual to complete 4 person carpool, 8:30-5:00. George, Ext. 7654.

MASSAPEQUA/FARMINGDALE - points west near Southern State Parkway, leave from vicinity exit 32 SS Pkwy. Plotkin, Ext. 4717.

NORTHPORT - 8-30-5:00, need one or two riders. Call Walt, Ext. 7154.

Wanted

FORD ENGINE - 67 or 72, 6 cyl., 240 c.u., reasonable. Charlie, 878-8984.

CAMPBELL SOUP LABELS - send to F. Chandler, Bldg. T-89 (for St. Mary School, E. Islip).

TRAINS - Lionel, American Flyer, access., any cond. brings good price. Carole, Ext. 3362 or 924-4097 eves.

SKIERS - fun weekend at Gore: includes bus, hotel and 4 meals, leaves Mar. 9 at 6:00 p.m., as little as \$110. Call Kathy, Ext. 7187.

INFANT CAR SEAT/CARRIER - Dyn-o-mite, model by Kantwet Questor. Ken, 4421 or 744-0722.

ROOMMATE - share house in Rocky Pt., must be responsible and enjoy children, 2 sun decks, 4 blocks from beach, \$325 mo. all. Diane, 821-2290 after 4 p.m.

VIC 20 - memory expansion printer disc drive. George Hrabak, 589-0819.

Classified Ad Policy

Deadline is 4:30 p.m. Friday for publication Friday of 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.
- Ads for the sale or trade of firearms will not be accepted.

- 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. One ad per person per week.
- 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, Building 134.

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|--|--|---------------------------------|---------------------------------------|
| <input type="checkbox"/> For Sale: Autos & Auto Supplies | <input type="checkbox"/> For Sale: Miscellaneous | <input type="checkbox"/> Wanted | <input type="checkbox"/> Lost & Found |
| <input type="checkbox"/> For Sale: Boats & Marine Supplies | <input type="checkbox"/> Car Pools | <input type="checkbox"/> Free | |

Please print your ad below in 15 words or less using one word per block. Include name and phone number to call.

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Note: The following must be completed for your ad to appear.

NAME (Please Print)

Employee's Signature

Life No. Ext.
Send to: Brookhaven Bulletin, Building 134 (Ext. 2345)

Classified Ad Policy Deadline is 4:30 p.m. Friday for publication Friday of the next week.