BROOKHAVEN BULLETIN
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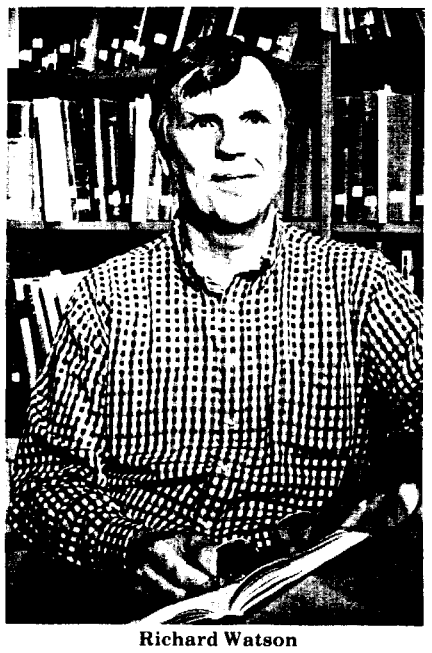
BROOKHAVEN NATIONAL LABORATORY

Watson Wins Hume-Rothery Metallurgy Prize

Richard Watson, senior physicist in the Physics Department, has been given the 1985 William Hume-Rothery Award by the Metallurgical Society of AIME (American Institute of Mining, Metallurgical and Petroleum Engineers). Watson was recognized for his outstanding scholarly contributions to the science of alloys. The award was presented on February 25 at the 114th Annual Meeting of AIME in New York City. At the meeting, Watson gave the Hume-Rothery Lecture which was part of a symposium on the properties of noble metal alloys.


Peter Horton

Richard Watson

Watson, a solid state theorist, obtained his Ph.D. from the Massachusetts Institute of Technology. He has been at the Lab since 1965 and his principal research has been on the electronic properties of atoms and alloys. This involves theoretical calculations on the way in which electrons are distributed when two metals are combined to make an alloy, and how this bonding is manifested in experiment and in the energetics of alloy formation.

Watson's publication list is impressive and, among his BNL collaborators, the name of Morris Perlman is frequently cited. In fact, one of the lines of research which led to the award involved the collaboration of Watson, Perlman and Jerome Hudis, in 1971, on photoemission and Mössbauer isomer shift studies of alloys.

With Perlman and Fred Mills, Watson started the ball rolling on the acquisition and early design of the National Synchrotron Light Source. In particular, he was active in building design, machine specifications, radiation safety and beam line instrumentation. In 1976, he was a member of the National Academy Panel on "An Assessment of the National Need for Facilities Dedicated to the Production of Synchrotron Radiation."

Watson has also had a long-standing consultantship with the Metallurgy Division, National Bureau of Standards, and continues to collaborate with them.

William Hume-Rothery was an eminent metallurgical physicist, and it is in his name that the award was established, in 1972, by the Institute of Metals Division of the Metallurgical Society of AIME. The award is given annually.

WIS Scholarship Fund Drive

To encourage women to continue their studies, Brookhaven Women in Science (WIS) has established the Renate W. Chasman Scholarship. WIS will make one-time awards of $1,000 to Long Island women undergraduates in their last two years, or women graduate students who have returned to college full-time to resume their studies in the sciences or technical fields.

WIS officers say that Chasman was selected because she was prominent in her field and a Brookhaven woman scientist who should be recognized for her contribution to science and this Laboratory. The scholarship was established to honor her memory and keep her spirit alive.

In an interview with the Bulletin in 1971, Chasman commented that she was used to working in a man's world, and she did not feel that there was any problem with how her colleagues treated her. "Possibly there has been a real change in more women getting out of the house and working, though I think the change is very, very far from being complete."

The six members of the scholarship committee, currently headed by Eva Bozoki, have begun approaching the largest technical corporations on the Island for contributions. These appeals are being made because the companies have expressed concern that there are not enough technical people on Long Island to meet industry's need. After the largest firms respond, the scholarship committee will ask for donations from Long Island's approximately 250 smaller high tech firms. In addition, WIS will solicit contributions from BNL employees.

WIS plans to raise funds just once, over a year or two, and hopes to raise enough money to utilize the interest as a stipend. If what they raise is not enough for a perpetual scholarship, they will use the principal until it is exhausted.

The scholarship is another example of how WIS is attempting to fulfill their charter as an educational organization aimed at providing a forum for the exchange of professional and technical information for the benefit of women, and to promote the advancement of women in the scientific professions.

WIS is a not-for-profit organization incorporated under the Education Laws of New York State and was the brainchild of WIS founder and Group Coordinator Harriet Martin. WIS began as a speakers bureau whereby women scientists from the Lab spoke at high school or college career days, panels on careers for women and seminars on women in non-traditional fields. The aim of this "One Mind" program was to encourage girls and young women to consider science, mathematics and engineering as possible careers and to provide role models.

"As a by-product of educating the public, raising their consciousness and acting as role models, we discovered that we enjoyed talking to other women in science," explains Victoria McLane, a WIS founder and trustee.

(Continued on page 2)

Renate W. Chasman

Renate W. Chasman (1932-77) came to BNL in 1963 after a three-year postdoc at Columbia University. She had received an M.Sc. in 1955 and a Ph.D. in 1959 in experimental nuclear physics from the Hebrew University in Jerusalem. At Brookhaven, she moved from experimentation to theory after becoming interested in the design of particle accelerators and became the only female physicist in the Accelerator Department. Chasman was chief theorist of the group that designed and built the 200-MeV AGS linac injector. From linear accelerators, she turned her attention to storage rings, particularly the design of electron storage rings to be used in the production of synchrotron light. Chasman devised a new design of an electron storage ring that was optimized for synchrotron radiation production. It was different from the component arrangement used for a high energy physics storage ring. The design of the storage rings at the NSLS are based upon her work, as are the storage rings for the light sources proposed for Lawrence Berkeley Laboratory and for laboratories in Europe. Five years after she was diagnosed as having cancer, Chasman died in October of 1977.

Davis Named Special Assistant

M. Sue Davis, deputy head of the Waste Management Division of the Department of Nuclear Energy, is on leave from that post to be Special Assistant to the Associate Director for Applied Programs, Seymour Baron.

Baron says Davis was selected for this management training spot because she is "mature and knows her business. I needed someone who really knew the departments of Applied Science and Nuclear Energy." Davis started her new job on March 4 and will use her scientific expertise to assist Baron in technical matters and in the administration of the programs under his jurisdiction.

So far, research has predominated in Davis' career. She came to Brookhaven in February 1974 as a research associate in the Porphyrin Chemistry group, Chemical Sciences Division of the Department of Applied Science. She received her Ph.D. in physical chemistry from the University of Rochester in 1975. For six years she worked on various aspects of photosynthesis and was promoted to Associate Chemist. In 1980, she moved to the Department of Nuclear Energy where she has been concerned with the technical evaluation of problems associated with the management of radioactive wastes. She was made deputy head of the Nuclear Waste Management Division in 1982 and now has the rank of chemist.

In the next two years Davis expects to learn a lot about the ins and outs of science administration and this could well determine her future career path.

Roger Stoutenburgh

M. Sue Davis

Warning System Upgraded

BNL'ers are accustomed to hearing the wail of sirens every Monday at noon and know that it's a test of the Lab's emergency warning system. This past Monday, however, you may have noticed a few changes.

The sirens sound louder because two new sirens have been added to the original contingent of three. In addition to the old sirens located near police headquarters, fire headquarters and Bldg. 911, sirens have been installed atop Buildings 463 and 555.

Another difference is a change in signals, as follows:

- A *continuous sounding* of the sirens signals a *Laboratory-wide alert.*
- The *intermittent sounding* of the sirens signals a *Laboratory-wide evacuation.*

Now that the new sirens are operational, the two-toned warbling air horns, formerly used to signal a Laboratory-wide alert, have been discontinued. Frank Crifasi, the Laboratory's Emergency Planning Coordinator in the Safeguards & Emergency Servic s Division, explained that the signal change was necessary because the sirens are now serving double-duty, sounding for both an alert and an evacuation. Copies of the new site emergency signals have been printed on press-apply material suitable for posting or for covering the emergency signals information on the inside front cover of the 1984 BNL phone directory. For a supply of the stickers, contact your department's Safety Coordinator.

"The Monday noon test has been

(Continued on page 2)

Women's History Week

From an idea developed in Santa Rosa, California, in 1978, Women's History Week has blossomed into a national observance, proclaimed by Congressional resolution. The week began on Sunday, March 3, and includes March 8, International Women's Day.

In honor of Women's History Week, the Town of Islip hosted a program on Wednesday, March 6, to recognize outstanding women residents. Receiving the award in the area of science was Betty Heldman, Medical Associate in the Medical Department. Heldman, who has been at BNL since 1973, is currently involved in a study which measures long-range effects of the isotope iron-55. She was also honored by her peers in February, when she assumed the presidency of the Long Island Chapter of the Association of Women in Science, a national organization.

Service Awards

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

Thirty-Five Years

James G. Cottingham ..... AGS

Thirty Years

Veronica H. Brooks ..... Medical

Twenty-Five Years

Charles E. Anderson ..... AGS
Joachim Fischer ..... Instr.

Twenty Years

Charles Bohnenblusch ..... AGS
Alexander Ceresko, Jr. ..... S&E Svcs.
Yreana Renee Flack ..... Dir. Office
Joseph F. Gatz III ..... Medical
Mario A. Geracitano ..... Plant Eng.
George V. Meyerhoefer .... Plant Eng.
Louis A. Morris ..... Central Shops
Tyrell S. Wison, Jr. ..... S&E Svcs.

Ten Years

Carl W. Anderson ..... Biology
Louis A. Graziano ..... Plant Eng.
Sydell Lamb ..... Biology
Antoinette C. Mauro ..... Dir. Office
Heriberto M. Rosado ..... S&M Div.
Grace A. Volkmann ..... Personnel
George T. Walczyk ..... Instr.

Coming Up

Louise Hanson, a chemist in the Department of Applied Science, is the next Brookhaven lecturer. She will discuss "Why grasse is greene, or why our blood is red..." at 4:30 p.m. on Wednesday, March 20, in Berkner Hall.

Scholarship (Continued)

"We realized that when we were talking with other women, we gave each other more information and could talk more freely." So McLane and Martin organized WIS, which is supported by the Office of Scientific Personnel.

WIS currently has over 100 members, including three men, and offers monthly meetings for a general audience and a lecture series on technical topics by leading women scientists. "I enjoy meeting women scientists who have really made it in their fields," says McLane. "When I started in science, almost all the role models were men, so it is nice to have women heroes as well."

In the past, WIS has supported establishing a day care center convenient for employees and an on-site credit union, and coordinating medical insurance benefits for husband and wife teams employed at the Lab. "We expect fund-raising for the Renate Chasman Scholarship to take all of our efforts for a while," says Martin, "but it will be worthwhile if we can help women re-enter college, complete their studies, and pursue scientific and technical careers."

— Marsha Belford

Att: Engineers

On Wednesday, March 13, the Physics Department is sponsoring the first engineering seminar at the Laboratory. It will be held at 3 p.m. in the Small Seminar Room at the Physics Building. The subject will be Robotics and the talk will be given by George Klein of the Department of Mechanical Engineering, Columbia University. All are welcome to attend. It is an exciting topic which could have far-reaching applications at Brookhaven.

Arrivals & Departures

Arrivals

Thomas Abraham ..... DNE
Joseph A. Curtiss ..... DNE
Joseph R. Jahelka ..... DNE
Jean P. Petterson ..... DAS
Swaminathan V. Raman ..... DNE
Triveni Srinivasan-Rao ..... Inst.

Departures

This list includes all employees who have terminated from the Laboratory, including retirees:

Eric L. Crump ..... Appl. Math.

Alex Reben

On February 22, BNL hosted the monthly New York/New Jersey Minority Purchasing Council meeting. Richard Chester, BNL's Small/Small Disadvantaged Business Liaison Officer, took that opportunity to present Reuben Guy of RMG Electronics, Central Islip, with BNL's annual minority vendor of the year award for 1984. The firm supplied the Lab with electronic circuit boards and their service was outstanding in price, delivery and quality. Gathered for the presentation were (from left) William Garner, Executive Director of the Purchasing Council; Earl Blanton, Manager of BNL's Affirmative Action Office; Reuben Guy; Richard Chester; D.J. Greco, who assists Chester in Contracts & Procurement; and Mort Williams of NYNEX, a director of the Purchasing Council.

Benefit Concert

To benefit its Renate W. Chasman scholarship, Women in Science is sponsoring a concert by Long Island musicians on Saturday, March 23, at 8 p.m. in Berkner Hall. Proceeds of the concert, which is open to the public, will go toward establishing a scholarship fund for Long Island women who wish to resume their education in scientific and technical fields.

The concert will feature performances by mezzo-sopranos Florence Hechtel and Linda Sandberg, pianists Maria Heger and Laurine Elkins Marlow, and clarinetist Joseph DePalo. Violinist Daniel Trueman will make a guest appearance.

The program will include familiar pieces by Purcell, Scarlatti and Mozart, as well as works by contemporary American women composers Gena Branscombe, Jeanne Singer and Jennifer Trueman. Admission is $5 and tax-deductible; tickets may be purchased in advance from the BERA Sales Office in Berkner Hall, at the door, or from the following ticket sellers:

Name	Dept.	Ext.	Name	Dept.	Ext.
Penny Baggett	AMD	5154	Eva Bozoki	NSLS	3701
Frances Brown	Bio.	3394	Nancy Fallon	SE&P	4530
Eena-Mai Franz	DNE	7103	Rae Greenberg	Phys.	3743
Louise Hanson	DAS	7709	Betty Heldman	Med.	3699
Mary Kinsley	DAS	5232	Harriet Martin	TID	3487,4053
Vicki McLane	DNE	2902	Sharon Spark	AMD	4111
Bonnie Wesolowski	Chem.	4301	Gail Williams	DO	3338

If ordering by mail, checks should be made payable to Chasman Scholarship Fund.

On-site mail orders — send check, name and building number to Mary Kinsley, Bldg. 426. Off-site mail orders — send check and stamped self-addressed envelope to Concert Tickets, P.O. Box 183, Upton, N.Y. 11973.

Warning System (Cont'd)

changed to help acquaint the Laboratory population with the new site emergency signals," Crifasi said. The test now consists of a brief steady siren (Lab-wide alert), followed by a brief intermittent siren (Lab-wide evacuation).

Every Monday at 11:55 a.m., just before the sirens are tested, the 60 Plectron receivers now located around site are also tested. The receivers were installed in January in order to improve the site-wide warning system. At this time, Crifasi noted, "Since not all buildings contain Plectrons, the system is designed to initiate the emergency telephone notification system. Individual departments will continue to make further telephone notifications."

From the transmission panel in Police Headquarters, alerts can be sent around the site in three modes: a general call, which activates all 60 receivers; a zone call, where only the receivers situated in one of the site's 20 geographic zones will receive the transmission; and a selective call, which would only be transmitted to designated receivers.

The first two tests of the new receivers took place on January 7 and 14. "Between the second and third tests," Crifasi said, "we had two actual implementations of the system." During the snowstorm on Thursday, January 17, the system was used Lab-wide to announce an early closing. On Friday, January 18, employees were notified via Plectron that there was no outgoing telephone service from the Laboratory. The outage was caused by damage to phone lines off site and was repaired over the following weekend.

Addled Addresses

BNU
Boulevard 426

Brookhaven Wet. Lab.

Nat'l. Synchro Tron Light Source
Brook Haven Nat'l. Lab.

Bluecabin National Labortories

Brookhaven National Laboratory
of Public Relations

Morris Strongson
Brookhaven National
(He asks: What are the ethnic characteristics of a Brookhaven national?)

Reports Available

The following reports are now available to the Laboratory staff and to affiliates of the DOE, AUI and NRC. Others may purchase the reports from the National Technical Information Service, U.S. Dept. of Commerce, 5285 Port Royal Rd., Springfield, VA 22161. Staff members should call Ext. 5068.

NUREG/CR-2331
BNL-NUREG-51454
Vol. 4 #1
Safety Research Programs Sponsored by Office of Nuclear Regulatory Research. Quarterly Progress Report Jan. 1 - Mar. 31, 1984. A.J. Weiss.

NUREG/CR-3493
BNL-NUREG-51711
A Review of the Limerick Generating Station Severe Accident Risk Assessment. Review of Core-Melt Frequency. M.A. Azarm, et al.

NUREG/CR-3518
BNL-NUREG-51716
Vol. II
SLIM-MAUD: An Approach to Assessing Human Error Probabilities Using Structured Expert Judgment. Vol. II: Detailed Analysis of the Technical Issues. D.E. Embrey, et al.

NUREG-CR-3910
BNL-NUREG-51806
Dynamic Simulation of the Air-Cooled Decay Heat Removal System of the German KNK-II Experimental Breeder Reactor. B.K. Schubert.

BNL-51823
Opportunistic Reproduction by White-Footed Mice (*Peromyscus Leucopus*) Provided with Supplemental Food. B.G. Ormiston.

BNL-51830
Spot and Futures Markets for Natural Gas. D. Levine.

BNL-51782
An Approach to IAEA Material-Balance Verification with Intermittent Inspection at the Portsmouth Gas Centrifuge Enrichment Plant. D.M. Gordon, J.B. Sanborn

NUREG/CR-3864
BNL-NUREG-51791
Characterization of the Low-Level Radioactive Wastes and Waste Packages of General Electric Vallecitos Nuclear Center, Final Report. C.R. Kempf, D.R. MacKenzie, B.S. Bowerman, D.R. Dougherty, B. Siskind

NUREG/CR-3973
BNL-NUREG-51814
Alternative Containers for Low-Level Wastes Containing Large Amounts of Tritium. E.P. Gause, B.S. Lee, D.R. MacKenzie, R. Wiswall, Jr.

BNL-51816
Verification of Multiple Steady-States in Localized Electrochemical Corrosion. J. Tilly, T. Mo, G. Gaudet, Consultants: H. Isaacs, R. Newman

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WIS Meeting On Benefits

An open meeting on health benefits provided by the Laboratory will be sponsored by Brookhaven Women in Science on Tuesday, March 26, at noon, in Room A of Berkner Hall (bring your own lunch). Questions on health benefits should be submitted by March 19 to Robert D'Angio, or Richard Schonberg, Personnel Division. D'Angio and Schonberg will answer these questions at the meeting on the 26th.

NYC Train Trip

The Hospitality Committee is planning a group railroad trip to New York City on Wednesday, March 20. Departure will be at 7:55 a.m. from the Patchogue LIRR station. Round-trip fare for adults is $5.00; children under five years ride free.

Reserve a ticket by sending your fare through the U.S. mail to BNL, P.O. Box 322, Upton, New York 11973. Please do not send cash. Checks or money orders, payable to BNL, must be received by Friday, March 15. Put the date of the trip, your BNL life number and your phone number on the back of your check or money order. Your tickets will be given to you at the railroad station on the day of the trip. Refunds will be made only if cancellations are received by the Monday morning preceding the trip.

Cafeteria Menu

Week Ending March 15

Monday, March 11		
Beef barley soup	(cup)	.65
	(bowl)	.85
Swedish meatballs on egg noodles		2.10
Macaroni ham & cheese w/1 veg.		2.15
Hot Deli: Pastrami rounds	(bread)	2.05
	(roll)	2.25
Tuesday, March 12		
French onion soup w/croutons	(cup)	.65
	(bowl)	.85
Beef & broccoli stir fry on rice pilau		2.20
Barbecue spareribs & 1 veg.		2.10
Hot Deli: Baked ham	(bread)	2.00
	(roll)	2.20
Wednesday, March 13		
Garden veg. soup	(cup)	.65
	(bowl)	.85
Veal stew on egg noodles		2.20
Chicken burrito & 1 veg.		2.15
Hot Deli: Turkey breast	(bread)	2.10
	(roll)	2.30
Thursday, March 14		
Minestrone soup	(cup)	.65
	(bowl)	.85
Baked lasagna & 1 veg. w/garlic bread		2.20
Sauerbraten & potato pancake		2.25
Hot Deli: Grilled Reuben		2.05
Special:		
Top your own western-style chili	(cup)	1.80
	(bowl)	2.40
Friday, March 15		
Seafood chowder	(cup)	.65
	(bowl)	.85
Top round of beef & 1 veg.		2.15
Ocean perch & 1 veg.		2.10
Hot Deli: Clam boat		2.15

Easter Hams: Order early. Fully cooked and garnished. Price $2.00 per pound plus sales tax.

Lorango in Recital

The pianist, Thomas Lorango, who at age 23 has already established a brilliant career, will give a recital at Berkner Hall on Thursday, March 14, at 8:30 p.m. This is his second concert at the Laboratory.

Lorango was accepted into the Curtis Institute of Music at age 15, and, at 16, made his debut with the Philadelphia Orchestra. He has received the top piano prize at the G.B. Dealey Awards Competition, first prize in the American Music Scholarship Association International Piano Competition and was recently awarded a Young Recitalist's Fellowship Grant from the National Endowment for the Arts. His recitals include performances at Lincoln Center's Alice Tully Hall and Carnegie Recital Hall.

Lorango's program will include Haydn's Sonata in B-flat major, Ho. XVI:41; Beethoven's "Appassionata"

Thomas Lorango

Sonata; Polonaise in F-sharp minor, Op. 44 by Chopin; Sonata in B minor, by Liszt and Prokofiev's Toccata, Op. 11.

Tickets will be sold at the door. General admission is $8; students and those over 65, $5; and those under 18, $3.

Cooking Exchange

The men will be demonstrating their favorite recipes on Wednesday, March 13, from 12:30 to 2:30 in the Recreation Building.

A charge of $1 entitles each person to copies of the recipes and sampling of foods. Babysitting is provided at 50¢ for each child.

For more information, call Dee Polychronakos, 744-3578.

Microcomputer Club

A demonstration of the new S series of Gemini printers has been tentatively scheduled for Thursday, March 14, from noon to 1 p.m. in the Biology library (Bldg. 463). These are low cost dot matrix style printers that have high speed and low speed letter quality modes and a switch that makes them completely IBM-PC compatible. Call Rich Vargas at 3456/115 (beeper) to verify demonstration on that date.

Basketball

All Star Game

BNL Allstars - 61		Hurricanes from Bay Shore - 72	
R. Doty	4	Hampel	15
M. Tardd	7	Raab	11
S. Gilbert	6	Riordan	20
L. James	3	Brady	8
G. Mack	5	Gallo	2
E. Meier	6	Gallo	1
J. Garrison	4	Hollard	13
P. Johnson	26	Raab	2

Scorer - Sharah Thomas
Referees - Mack Thomas
Guy Mastrion

—BERA News—

Astronomical Society

Observation night this month will be Friday, March 15, beginning at dusk. The alternate date, March 22, coincides with an evening elongation of Mercury, and will be attempted regardless of the weather on the first date. Call Bob Mills (Ext. 5043), or Rick Jackimowicz (Ext. 3803) during the late afternoon of the date in question for exact information.

A Society meeting will be held on Monday, March 11, at 12:30 p.m. in Room A, Berkner Hall. Members and prospective members are invited to attend.

Camera Club

The Camera Club will have a lunch hour meeting on Thursday, March 14, at noon in Room D, Berkner Hall. All members and prospective members are urged to attend this important meeting. Plans for the spring photo exhibit will be discussed.

Classes in photography techniques, including all aspects of darkroom work, will start on Thursday, March 21 at 5:30 p.m. in the Recreation Building. Contact Lew Jacobson, Ext. 5193, for information on club activities.

Singles Club

The next monthly meeting will be on March 12 from 12:15 to 12:40 p.m., in the lobby of Berkner Hall.

Bowling

Red/Green League

High games were bowled by T. Natoli 217, J. Petro 216, J. Connelly 210, N. Combatti 210, K. Asselta 207, H. Arnesen 204, H. Marshall 204, E. Sperry 206, J. Ferrante 203, G. Meinken 203, B. Kristiansen 200.

Purple League

B. Jones rolled a 245/624 series, R. Picinich 234, B. Sells 232/604, E. Meier 219/601, J. Mayeski 215, D. Adams 213, T. Erickson 201/200, N. Mayeski 197, M. Apelskog 173. The BJ Jrs. rolled a 910 gross game.

White League

J. Griffin had a 221, K. Jellett 209, B. Barberich 219/204, E. MacDougall 200, K. Conkling 221, L. Barberich 196, K. Vogel 189, M. Connelly 188, K. Griffin 187, S. Smith 186, L. Petro 185.

The winners of the Scotch Doubles Tournament were Mary and Jere Austin.

Representing BNL at the 44th Industrial Bowling Tournament are K. Asselta, R. Larsen, J. Morris, K. Riker, E. Sperry IV.

Volleyball

	W-L
A League	
Dinkers	35-4
UpFaGrabs	25-14
Semi Tough	22-17
Teddy Bares	16-23
Mixed Ups	12-27
Nuts and Bolts	7-32
B League	
TNT	32-7
Fossils	27-12
Phoubars	27-12
Set Ups	12-27
Chungas Revenge	11-28
Servers	8-31
C League	
Tigers	29-10
Captain Midnight	26-13
Screw Balls	23-16
Craw	14-25
Quirks	13-26
Couples	12-27
Open League	
Phoenix	42-0
Odds and Sodds	23-19
Half Lifes	20-22
Team 6	19-23
Rowdy Radicals	16-26
Generic	5-37

Lois Marascia

Kurt Fuchel

Richard Scheidet

Bernie Silverstein

BERA Election

Voting to elect two of the above four candidates to serve on the BERA Executive Board will begin on Monday, March 18, and extend through Friday, March 22. Those eligible to vote are employees of permanent on-site employers. Voting stations will be set up at the cafeteria and bank (schedule to be announced).

Absentee votes, for employees who will not be on site during election week, will be accepted by sending a signed memo with candidate selections to the Recreation Office, Building 185. Memos must be received no later than noon, Friday, March 22, to be valid.

Kurt Fuchel, Computer Scientist, Applied Mathematics. Fuchel's BERA credits include participation in badminton, tennis, indoor soccer, volleyball and the Camera Club. His main interest, however, is the BNL Theater Group. He is the present group secretary and has performed in "Bus Stop," "The Play's the Thing," "Otherwise Engaged," "Tiger at the Gate," and "A Man for All Seasons." Kurt proved his versatility by producing the Theater Group's latest presentation, "Morning's at Seven."

Lois Marascia, Executive Secretary, Department of Nuclear Energy. Marascia served as a volleyball team co-captain as well as secretary of the Volleyball League for three years and treasurer for one year. She also co-captained a softball team for three years. In 1984, she was selected to be a member of the BERA Nominating Committee.

Richard Scheidet, Project Engineer, Plant Engineering. During his nine years at BNL, Scheidet has been a member of the Softball League, Exercise Club, Mountain & Canoe Club, Runners Club, Volleyball League and Bowling League. He is currently vice-president of the BNL Bowling League.

Bernie Silverstein, Industrial Hygienist, Safety & Environmental Protection. Silverstein is a member of the Commodore Users Club and was recently elected president of the Runners Club. He was co-captain of a softball team in 1980 and captain of a volleyball team in 1981. He was selected by the BERA Board to serve on the Nominating Committee in 1984.

Softball

The BNL Softball League is now organizing for the 1985 season. Anyone interested in entering a new team in either the Employees League or the Mixed League should submit a roster of no less than fourteen names to Sharon Smith, Bldg. 510A, no later than Friday, March 15. Entrance into the Leagues will be on a first-come, first-served basis.

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 Employment Manager, Ext. 2882.

SCIENTIFIC POSITIONS OPEN: The following staff positions are open. Candidates may apply directly to the department representative named, or through the office of Scientific Personnel, Ext. 3338.

POSTDOCTORAL RESEARCH ASSOCIATE. Seek recent Ph.D. in Analytical or Physical Chemistry with interest in mass spectrometric techniques for characterization of biomolecules. Apply to: H.W. Siegelman, Biology Department.

LABORATORY RECRUITMENT — Opportunities for Laboratory employees.

2192. SECRETARIAL POSITION - Requires good typing and clerical skills to function as Department floater. Knowledge of Laboratory policies and procedures and experience in word processing very desirable. Department of Applied Science.

2193. SECRETARIAL POSITION - Requires AAS degree in secretarial science or equivalent, excellent secretarial skills and knowledge of general office procedures. Knowledge of Laboratory policies and procedures and word processing desirable. Duties include technical typing, mail distribution, correspondence preparation as well as other general support responsibilities. Accelerator Development Branch.

2194. SECRETARIAL POSITION - Will perform general secretarial services for several members of the directorate and their administrative support staff under the direction of a staff assistant. Good typing and shorthand skills are required. Experience in word processing, or the willingness to learn, is necessary. Excellent communications skills are necessary to handle numerous telephone inquiries and requests for information. Driver's license is required. Director's Office.

2195. LAUNDRY OPERATOR B - Plant Engineering Division.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside applicants.

2196. ASSISTANT TRAINING AND DOCUMENTATION ANALYST - Requires a BS in business administration or equivalent and a minimum of one year's experience in training and technical writing. Will assist in user training and the preparation of documentation required in the development and implementation of the MIS Division's systems. Management Information Systems Division.

2197. QUALITY ASSURANCE ENGINEER - Requires BS in mechanical engineering, physics or math and five to ten year's experience in quality assurance within a high technology or scientific research environment. Will establish QA programs and develop procedures for various Departments and Divisions of the Laboratory. Director's Office.

2198. PROJECT ENGINEER - Requires a BS in engineering or equivalent and must have broad experience and demonstrated ability in conceiving, designing, estimating, and implementing energy conservation projects, including modification to existing mechanical and electrical environmental systems. Duties will consist of field investigations, identify, develop and determine feasible energy conservation opportunities, prepare implementation costs, and provide justification for requesting DOE funding. Plant Engineering Division.

2199. PROGRAMMER/ANALYST - Requires BS in computer science or equivalent and familiarity with commercial data base management systems. A knowledge of one or more of the following languages is also required: PASCAL, C, and FORTRAN. Will implement and maintain a data base associated with computer control of particle accelerator. Alternating Gradient Synchrotron Department.

Autos & Auto Supplies

73 DATSUN 240Z - 99k mi., standard, body rot, good running cond. Nick, 475-5543.

73 TRAVEL TRAILER - 22', Banner, self-contained w/shower, oven, refrigerator, 4 burner stove, sleeps 6, asking $3,500. Barbara, 744-7574.

75 VW BUG - new tires, new heat exchange, $500. Chris, 821-1558.

71 VW - pop-up camper, fully equipped, rebuilt motor, solid body, $1,800. Augie, 821-0379.

74 OPEL MANTA - a/t, $500. Mike, 585-4038.

75 TOYOTA PARTS - 20 RC engine, $400; 4 spd. trans., $200. 399-0969.

79 PINTO - 4 spd., 4 cyl., new clutch, exhaust, good cond., asking $1,600. Ext. 4605 or 281-5456 eves.

79 PONTIAC SUNBIRD - 5 spd., new tires, radiator, battery, muffler, alternator, $3,500 firm. 732-1877.

KAWASAKI 250 XL - good running cond., shield, console, radio. Charlie, Ext. 7749 or 325-0968 after 3 p.m.

81 KAWASAKI 440 LTD - bought new '82, new battery, maintained, excel. cond. 744-3968, leave message.

66 AUSTIN HEALEY - runs excel., good cond., interior needs some restoration, collectible, asking $5,200. 585-9149.

THEFT SENTRY PAGING SYSTEM - auto page AP/4500, new, boxed, cost over $280, sell for $210. Ext. 2981.

MOTOR SCOOTER - Vespa, 200 cc, 50 mpg, 50-50 mph, white, must sell, asking $500. Nick, Ext. 2490.

81 TOYOTO STARLET - 5 spd., 40 mpg, 66k, orig. owner, asking $3,750. 286-0288.

DATSUN B210 - 4 spd. trans, $200. 281-7798.

70 MONTE CARLO - 350, a/t, p/s, p/b, a/c, runs well, asking $800. Dan, Ext. 4987 or 698-7322.

CRAGARS - (4) fit G.M., w/lugs and (4) GR78x14 radials, $200; trailer hitch H.D. fits 82-85 Camaro/Firebird, w/cap & ball, $100. Ext. 5611 or 924-0010.

75 PLYMOUTH GRAND FURY - wagon, p/b, p/s, a/c, am, good cond., runs well, $850. Jochen, Ext. 2002.

77 CHRYSLER CORDOBA - very good cond. 588-3775.

76 DODGE ASPEN STA. WAG. - 6 cyl., excel. cond., engine efficient, like new, 74k mi., std. shift, fm radio, ski rack, $1,500. 473-8877.

77 HONDA - excel. mech., 30k miles, new engine, 4 spd., 35 mpg, am/fm, $1,375. Ext. 3164 or 744-5954.

73 WINNABAGO MOTOR HOME - 26', full bath, mint cond., 5 k.w. generator, built-in vacuum, $12,000. 744-8672.

75 CAMARO - needs some work, clean in/out, $1,600. Linda, Ext. 5068 or 821-2382 after 6 p.m.

75 FIAT 128 - 4 spd., am/fm, good engine, (2) new tires, needs work, $395. Ext. 3714 or 3208 after 7 p.m.

77 FORD LTD - V8, sta. wag., good cond., all power, auto. cruise, $2,500. Ext. 3136.

G.M. SERVICE MANUAL - for 75 Cadillac, $10. Tony, Ext. 2462.

75 CHRYSLER NEWPORT - 2 dr., high mi., runs well, asking $600 or best offer. 727-5912.

76 CHEVY MALIBU - 2 dr., blue, 6 cyl., 3 spd., a/c, $1,200 or best offer. J. Skora, Ext. 5046 or 744-9677 after 5 p.m.

RIMS - Mustang II, 13", 2/$5. 585-3417.

76 MONTE CARLO - fully equipped, blue/white int., very good, new parts, $2,650. 585-3417.

71 DATSUN STA. WAG. - body rusty, runs well, $400. Ext. 4168 or 286-3675.

73 DUSTER - slant 6, p/s, a/c, excel. eng., rubber, body good, 128k mi., new brakes, exhaust, best offer. 281-9412 after 5 p.m.

83 HONDA SHADOW - 750 cc, like new, no maint., shaft drive, excel. cond., $2,500. Frank, Ext. 4173 or 281-6125.

69 CHEVY NOVA - new exhaust and tires, runs well, $375. 924-7476.

73 LE SABRE - high mileage, reason. body, runs well, 4 dr., V-8, p/s, p/b, a/t, $800. Ext. 3876.

63 CORVAIR VAN - 6 cyl., 4 spd., good running cond., $500. Frank, Ext. 2022 or 399-4480.

84 BMW - 533i, loaded, showroom cond., still under warranty, must sell, $23,500. Ext. 4490 or 289-9724.

75 VW BUG - excel. cond., am/fm, snows, 2 extra rims, $1,200. Bill, Ext. 2906 or 929-6189.

62 MERCURY COMET - 4 dr., a/t, low miles, excel. cond.; '78 VW Dasher, 2 dr., lift back; '75 Ford Torino, 2 dr.; p/s, p/b, rebuilt a/t. Andy, Ext. 4014.

78 MAZDA GLC - 5 spd., good cond., $1,500. Ext. 4524 or 643-5579.

STEERING WHEEL - custom sports-GT, chrome w/black, 14-1/2", $30; mounting kit for Ford, $5. Jon, 744-7242 after 6 p.m.

CAMPER - 8-1/2' fits 3/4-ton pickup, stove, oven, refrigerator, water tank, sleeps 4, $800. 749-1203.

80 HONDA CIVIC - hatchback, 1300DX, 5 spd., am/fm, garage kept, very good cond., $2,550. 669-0549.

71 AUDI - 100 LS, 2 dr., 150k mi., a/t, needs work. John, Ext. 4214 or 475-5543.

Boats & Marine Supplies

19' FIBERGLASS - Cruisers Inc. w/90 HP Chrysler, trailer, many extras, excel. cond. 325-0447 after 6 p.m.

19' GRADY - 1983, white, 115 HP Evinrude, power trim & tilt, full camper, canvas w/1985 Cox E-Z load trailer. John, Ext. 4668 or 324-0220.

23' PUMA - sloop, deep keel, sleeps 4, head & galley, 6 HP, many extras, $8,500. Walter, Ext. 4605.

30' ULRICKSON CABIN CRUISER - 1963, wood, sleeps 6, flying bridge, good cond., seen at Matt-A-Mar Marina in Mattituck, asking $2,500. Barbara, 744-7574.

15' BOSTON WHALER - 1979 w/1981 70 HP Johnson, full rails, power tilt, extras, $5,000. 325-0930.

21' GALAXY - 1983, deep V cuddy cabin, 120 HP Volvo, 30 hours, port-a-potty, am/fm cassette, compass, depth, full swim platform, full cover, like new, extras, $10,000. Ext. 3589.

Miscellaneous

GARAGE DOOR OPENER - Stanley, brand-new, 1/4 HP, orig. carton, unopened, $88; hockey skates, good cond., size 10, $10. 941-4328.

GE TV - 15", B&W, 4 yrs. old, good cond., $45. 924-8722.

SNOWBLOWER - chain saw; lawn-edger; trimmer; electric heater; 12" B&W TV; recliner, all excel., reasonable. 473-9113 eves.

OFFICE DESK - metal, double pedestal, good cond., $75. 862-8811 after 6 p.m.

WOMAN'S SUEDE WINTER COAT - brown, quilt-lined, fur collar, worn once, size 10, perfect, $75. Ext. 7126.

CONTOUR CHAIR - needs reupholstery, asking $50; Mediterranean chandelier w/spotlight, asking $50. 924-3855 eves.

MARQUISE DIAMOND RING - beautiful, 1 pt., appraised $3,125, $1,500 firm. Maryann, 285-2435.

ELECTRIC STOVE - built-in type, hood, sink, $50; dishwasher, $100, all coppertone; wood kitchen cabinets, wall & base, approx. 18', almond formica tops, can be refinished, $100. 744-8659.

FRAMES - wood, 12x16, $5, 16x20, $8; Ultima adjustable easel photo, $10; photo chemicals. Susan, Ext. 4267.

STEREO AMPLIFIER - Onkyo, 45 watt/channel, amplifier w/matching tuner, excel. cond., $75 ea. Ext. 4153 or 732-5829.

COMPUTER - TRS-80, Model-3, 16k, Z-80 based, expandable, CRT display, never used, $235. 542-1078.

SKI RACKS - roof mount, $30. Rick, 727-0499.

COLECOVISION - excel. cond., used only a few times, (2) cartridges, $90; GE washer & dryer, 18 lb. capacity, excel. cond., $300 for both. Ellen, Ext. 4486.

BOOKCASE - 300 book capacity, $40; books, many classics; nest of tables, $10; Keystone camera, Everflash-20, $10. 281-2002.

HI-RISER - w/2 mattresses, $60; white chest of drawers, $30. 929-4701.

SKI BOOTS - never used, Nordica brand, size 13M, $40. Klein, Ext. 4018.

WEIGHT LIFTING SET - complete, 110 lbs. of weight, w/DP incline bench, like new, $45 firm. P.J. Humphrey, 744-1760.

HUMIDIFIER - Northern Electric, 7 gal., very good cond., $30. Hans, Ext. 4581 or 281-5563.

MOVING SALE - double bed & mattress, $100; camping table & chairs $30; lamps, kitchen & household items. Jochen, Ext. 2002.

PLAYPEN - w/fold-down sides, vinyl mesh, fold up to store, $35. 878-0717.

TYPEWRITER - electric, Smith Corona, script letters; brown touchtone, trimline wall phone; Hedstrom stroller; (2) traditional octagonal-shaped end tables; hi-riser bed; solid ponderosa pine louver door (30x80). 751-6418.

L/R FURN. - couch, $50; chair, $40; corner table, $30; coffee w/matching end tables, $100; (2) lamps, $20. Mary, Ext. 2926 or 281-0268.

DINETTE CHAIRS - (4) chrome w/brown velour seat and back, like new, $80. 286-1186.

ANIMAL CARRIER - U.S. Air, for air transport, med. size dogs, perfect cond., used twice, $20. Ext. 4219.

SINK - w/faucet, pink, $15. Morris, Ext. 4192.

REFRIGERATOR - 17 cu. ft., harvest gold, 3 yrs. old, $275. 924-723 after 5 p.m.

HAMS - Heath c.w. transceiver HW16, w/V.F.O., antenna tuner, SWR meter, coax switch, complete $200. Ext. 3876.

FIREPLACE GRATE - Hydrohearth, $15; (2) Holley single barrel carbs, $10/both; military surplus, 300 VDC power supply, $10. Victor, Ext. 2395.

SAW - B&D, 1 HP, 4,900 rpm, 7" blade, $25. Walt, 298-8601.

CONVERTIBLE COUCH - black vinyl, excel. cond., $250 or nearest offer. Ext. 3597.

KAYPRO II COMPUTER - double disk drive, all software and books included, asking $1,300. Eddie, Ext. 7519 or 7601.

QUILTED BEDSPREAD - red, white & blue for twin size bed, like new, $15. Les, Ext. 2920.

LAMP TABLES - 2 for $10. 727-5912.

CABBAGE PATCH DOLL - 1985 preemie, w/hair, $65. 286-5829.

COUCH - 7 ft. long, w/2 matching chairs, red flower pattern, $300. Debbie, 298-5575.

BACKHOE - for large tractor or med. bulldozer, very good cond., $1,650. Tom, Ext. 4084 or 878-1060.

PORTABLE DISHWASHER - Kenmore washer; Fridgedaire dryer, all used, all work, $25/ea. 924-4290.

KELVINATOR DRYER - needs work, 3 temp., $10. 924-4290.

PVC DARKROOM SINK - corrugated bottom, 18", splashboard, 72"x24", like new, $250. 324-7643.

HIGH-RISER BED - good cond., $30. Ext. 5012.

ANTIQUE - Medical Master Violet Ray #9, "1920s" cure-all instrument, $45. Bob, 758-7409 after 6 p.m.

SNOW THROWER - 12", electric, Sunbeam, like new, $150. 878-4285 after 5:30 p.m.

WEAVING LOOM - handcrafted, oak, w/bench, $200. 289-9724.

WASHING MACHINE - used, works well, Kenmore, $65 firm. Ext. 2939.

VICTORIAN BATHTUB - 60"x30", white, best offer. Linda, 924-4872.

MATTRESS & BOX SPRING - full size, excel. cond., w/frame, $100. Iris, Ext. 3414.

HOCKEY SKATES - man's size 9, $7; air hockey game on legs, $10; Reader's Digest magazines, 2; books, $3 ea. Russ, Ext. 3059 or 744-7242.

Free

DOG - shepherd/malamute mix, beige, 10 mos. old, w/some shots, very friendly. 821-2059, between 9-5.

Carpools

BAYPORT/BLUEPOINT/SAYVILLE - need 2 drivers, 1 rider. Rick Wilke, Ext. 3932 or page at Ext. 3051.

NEED RIDE - to NYC on weekends, will split all costs, leave Fri. p.m. and return Sun. p.m. Ext. 3480.

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 Rent

SHIRLEY - new 1 bdrm. basement apt., full kitchen, bath & living rm., heat included, pri. entrance, 3 min. from Lab, $450/mo. 924-7971.

PORT JEFFERSON/HARBOR HILLS - private, 3 bdrm. ranch, avail. April-June, rent negotiable. Ext. 3791 or 928-7154.

ROCKY POINT - 3 bdrm. ranch, excel. cond. and location, carpets, fenced yard, full basement, all appliances, avail. immed., $750 + util. 744-4611 after 6 p.m.

YAPHANK - 4 bdrm. house, 1-1/2 baths, l/r, d/r, large kitchen, completely renovated, 10 min. from Lab., avail. April 1, $800 per month plus util. 924-4872.

For Sale

SHOREHAM - 3 bdrm. ranch, basement, above ground pool, prop. 75' x 150', OHW baseboard heat, cedar shakes, excel. cond., asking low 90's. Barbara, 744-7574.

E. PATCHOGUE - large Cape Cod, landscaped 3/10 acre, 4 bdrms., one w/kitchenette, l/r, dining area, 2 baths, study w/fireplace, full basement, attic, garage, 400 yds. from Great South Bay, $153,000. Ext. 4490 or 289-9724.

CORAM - Birchwood at Bretton Woods, 3 bdrm. condo., Dalton model, den, l/r, formal d/r, 1-1/2 baths, patio, gas heat, central a/c, like new, many extras, 1/2 block to Clubhouse. Ext. 7338 or 324-7643.

RIDGE - 3-4 bdrm., l/r w/coal stove, country kitchen, 1/3+ acres, fenced, basement, patio, immac., $83,000. Ext. 7509 or 924-8594.

Wanted

AUTO SERVICE MANUALS - all makes of cars, reasonable. Joe, Ext. 2556.

FRONT SEATS - for 1974 VW Beetle, good cond. Hugh, Ext. 4669.

APARTMENT - 2 bdrms., w/util. included, reasonable, near BNL. Ext. 5182.

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

PERSON TO SHARE - large house, 13 acres, 5 min from Lab, $200/mo, 1/2 util. Jack, 924-3669.

ATARI 2600 - game cartridges, joysticks, paddle controls. Paul, Ext. 5287.

PERSON TO CARE FOR THREE CHILDREN - at night in exchange for room and board. Ext. 3736 or 286-1169.

BOY'S GOLF CLUBS - and/or bag, Jack LaLanne subscription. Liz, Ext. 2318 or 286-8563.

RESPONSIBLE MOTHER - non-smoker, in the Setauket/Stony Brook Area to care for 2-1/2 yr. old. 878-0717.

MUSTANG - '68 or '69, Fastback or Mach I, good cond., reason. price. Nancy, Ext. 3260 or 281-6699 eves.

OLD OR UNUSUAL DOLLS - toys, etc. 475-4199.

COMMERCIAL SEWING MACHINE - reasonable. Dave; Ext. 2386 or 924-6575.

TIRE - for G78x15, not a radial or snow, needed for spare. Morris, Ext. 4192.

Classified Ad Policy

Deadline is 4:30 p.m. Friday for publication Friday of the following week.

1. The Brookhaven Bulletin's classified section may be used only by active and retired Laboratory employees.
2. All items for sale or rent must be the advertiser's property.
3. Ads for material acquired for resale in association with a full or part-time business cannot be accepted.
4. Ads for the sale or trade of firearms will not be accepted.
5. Ads not carried because of space restrictions will be held for publication in the next issue.
6. Ads are run only once and must be resubmitted if they are to be repeated. One ad per person per week.
7. **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.**

☐ For Sale: Autos & Auto Supplies
☐ For Sale: Boats & Marine Supplies
☐ For Sale: Miscellaneous
☐ Car Pools
☐ Lost & Found
☐ Wanted
☐ Free
☐ _____

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

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.