

Mary White Heads Labwide Training Effort

To ensure that all employees are appropriately trained in accordance with a new Lab training policy, the BNL Training Office has been established — headed by Mary White, Personnel Division.

As explained by BNL Director Nicholas Samios, the office was created "as part of our commitment to the Tiger Team to establish standards for the Laboratory's training program."

The U.S. Department of Energy's (DOE) Tiger Team visited BNL in 1990 during DOE's assessments of the national laboratories' compliance with applicable environmental, safety and health regulations. It recommended a more consistent Labwide approach to training. Thus, the new office will put a new BNL training policy into effect.

This policy, together with standards and guidelines for training, was the recommendation of an 18-person task force, which reported to BNL Deputy Director Martin Blume and included representatives of management, existing training functions, and environmental safety and health coordinators. The task force's proposals, the result of several months of work, were tried out on a small scale in the Alternating Gradient Synchrotron Department (AGS), which was chosen for this purpose because it had already developed a training plan.

Following a successful pilot program in the AGS, the BNL Training Office was established. Its responsibilities, as announced in Samios' January memo to department and division managers, include: establishing training standards and seeing that they are carried out; coordinating preparation of department and division training plans; setting up and maintaining a Labwide training database; assisting department training coordinators in the design

and development of training courses; and evaluating and reporting on the Lab's progress toward achieving a documented, performance-based training program.

"To establish the training program on these lines is an tremendous undertaking," said White, "but once it is in place, there will be many advantages. Labwide coordination will avoid duplication of effort and provide consistency of documentation. Many departments and divisions are already delivering excellent training to employees, but without consistent documentation,

the Lab does not always get credit for these efforts.

"I feel strongly, however," continued White, "that it is very important to recognize the diversity of the Lab. Within our policy there is flexibility to accommodate differences in how departments accomplish the common goal. For example, as training procedures are proposed, we will ask for input as to how they might work in practical application. Of course, there must be a minimum level of consistency in order to have an effective database."

As White sees it, one of her first



Mary White, Training Office Manager, meets with Management Oversight Committee members: (standing, from left) Gerald Kinne, Associate Director for Reactor, Safety & Security; Robert D'Angio, Personnel Division Manager; Richard Spellman, Central Shops Division Manager; (seated, from left) Chemistry Department Chairman Norman Sutin and BNL Deputy Director Martin Blume. Not present is Mark Sakitt, Assistant Director for Planning & Policy.

Women's History Month Salute

Mary White is only one of the 832 women who today make up nearly one-quarter of BNL's work force of 3,400. She is also representative of approximately 500 Brookhaven women in management, administrative, clerical or supervisory positions.

Said Women's Program Coordinator Virginia Brown, "The business of the Laboratory is science, but our scientists, engineers and others on the research and development staff need administrative support to accomplish research objectives. Because, at BNL, there is a relatively large proportion of women performing many aspects of administrative support, it is appropriate for BNL to salute their accomplishments as part of the 1992 observance of Women's History Month."

At the Laboratory, administrative support specialists range from administrative division managers, accountants and budget analysts to secretaries, office services assistants and administrative assistants.

tasks is to establish strong links with each department and division through the designated training coordinator who will be the liaison with the Training Office.

"I think the key to a good Labwide program is participation at the working level," said White. "I am soliciting ideas from training coordinators so that they may develop workable departmental training plans. The Training Office will provide hands-on assistance, especially in the beginning stages, to help training coordinators get started."

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Feldberg Honored for Research

Senior Chemist Stephen Feldberg, who heads the Chemical Sciences Division (CSD) in the Department of Applied Science (DAS), was awarded this year's Charles N. Reilly Memorial Award for Electroanalytical Chemistry.

The award was presented to Feldberg in the form of a plaque and a \$1,500 honorarium by the Society of Electroanalytical Chemistry on March 11, at an award symposium during its annual Pittsburgh Conference and Exposition on Analytical Chemistry and Applied Spectroscopy in New Orleans. Recognizing an active researcher who has made a major contribution to the theory,



Stephen Feldberg

instrumentation or applications of electroanalysis, the Reilly Award award is supported by BAS, Inc.

Electrochemistry deals with the physical chemical changes accompanying the passage of an electric current through a solution. In electroanalytical chemistry, electrochemical measurements are used to analyze and describe the behavior of various chemical systems.

Feldberg was cited for "persistently novel insights [in]to electrochemical processes [that] have benefited [his] many colleagues around the world." In addition, it was noted, his "nomination was supported by an unusually wide spectrum of [his] colleagues and was indicative of their appreciation of [his] pioneering role and the influence of [his] outstanding collaborations over the breadth of electrochemistry."

As his major contribution to electroanalytical chemistry, Feldberg was recognized for using what are called finite-difference equations to solve previously intractable problems evolving from complex interaction of electron transfer, mass transport and chemical reactions.

Prior to his work, "Many problems of interest were being oversimplified to make them mathematically tractable," explains Feldberg. "Now, because these numerical methods are reasonably user-friendly, people

(continued on page 2)

New Women's Physics Prize Honors Gertrude Goldhaber

As Women's History Month draws to a close, Brookhaven Women in Science (BWIS) announces that applications are now being accepted for a new physics prize to be awarded to a woman graduate student in physics at the State University of New York at Stony Brook, in recognition of her substantial promise and accomplishment.

The Gertrude S. Goldhaber Prize has been established to honor Gertrude Scharff-Goldhaber for her outstanding contributions in the field of nuclear physics and for her support of women in science.

Now a collaborator in the Physics Department, Scharff-Goldhaber in 1950 became the first woman Ph.D. physicist appointed to the BNL staff. In her research, she has specialized in studying the systematics and characteristics of nuclear excitations in a wide range of nuclei, and has synthesized her understanding of these static and dynamic nuclear properties into far-ranging models. She has also left her mark at the Lab as the founder of the Brookhaven Lecture series, in 1960, and a founding member of BWIS, in 1979.

The winner of the Goldhaber Prize will receive \$500 from a fund administered by BWIS and will be expected to give a seminar on her work at the award ceremony to be held this fall. To be eligible for the award, a nominee must be a candidate for a doctoral degree, must still be active as a physics graduate student and must not be receiving her degree before October 1 of this year.

Any member of the BNL staff or the faculty in Stony Brook's Physics Department may nominate candidates for this prize. The nomination deadline is May 8, 1992, and the award recipient will be announced by mid-June.

For more information on nominations or to make a contribution to the prize fund, contact BWIS Goldhaber Prize, P.O. Box 183, Upton NY 11973, or call Vicki McLane, Ext. 5205.

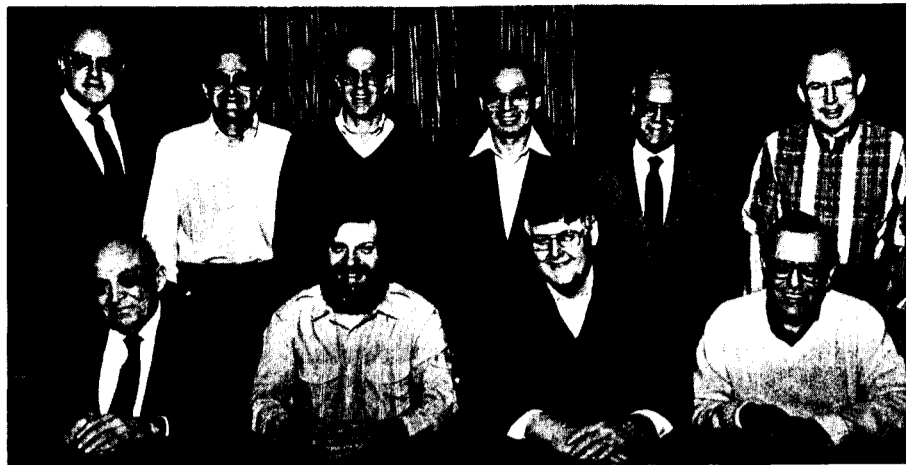


Gertrude Goldhaber

Brookhaven Council Meets

First convened in 1962, the Brookhaven Council is a 15-member group that reports to the Director with recommendations on scientific policy and procedural matters, such as staff appointments and tenure recommendations. The Council also provides an avenue via which members of the scientific staff may bring concerns to the attention of the Director. The members of the group are elected from the tenured scientific staff, for three-year terms.

Shown here at the first meeting of the 1992-93 Brookhaven Council on March 9, are: (back, from left) Peter Theiberger, representing the Physics Department and the Instrumentation Division; Benjamin Burr, Biology Department; Stephen Shapiro, Physics & Instrumentation; Wu-Tsung Weng, Alternating Gradient Synchrotron and Accelerator Development Departments, and Safety & Environmental Protection Division (AGS, ADD & S&EP); Arjun Chanana, Medical Department; Louis Remsberg, Chemistry Department; (front, from left) Harold Siegelman, Biology; Council Chairman Peter Siddons, National Synchrotron Light Source Department; Charles Meinhold, Department of Nuclear Energy (DNE) and Reactor Division; and Paul Michael, Department of Applied Science and Computing & Communications Division (DAS & CCD).



Roger Stoutenburgh

Not shown are: Horst Foelsche, AGS, ADD & S&EP; Howard Gordon, Physics & Instrumentation; Masaki Suenaga, DAS & CCD; Hiroshi Takahashi, DNE & Reactor; and Council Secretary Michael White, Chemistry.

Suggesting Action Behind the Scenes

The results of some of their good ideas can be seen by the entire Laboratory community — for example, the very successful Career-Awareness Day held at BNL last fall for 300 minority and female Long Island high school students.

The effect of other of their suggestions may not be so readily observable — such as their discussions with department chairmen and division heads on ways to create more equal opportunities within their organizations. Or their recommendation that the Contracts & Procurement Division join the New York-New Jersey Minority Purchasing Council to develop minority contacts with whom to do Lab business.

However, these behind-the-scenes actions impact the Lab's practice of its equal opportunity policy.

The originators of these actions are the members of the Affirmative Action Advisory Committee. Also known by its scientific acronym, the A³ committee meets monthly to advise the Laboratory Director on the practices of affirmative action in accordance with the Lab's policy of equal opportunity.

Under that policy, the Lab is committed to a program of recruiting, placing, training and upgrading the skills of what are known as protected classes of workers, which includes African Americans, Hispanics, Native Americans, Asians and Pacific Islanders, the disabled, Vietnam and disabled veterans, and women. The goal of this program is



Roger Stoutenburgh

Members of this year's Affirmative Action Advisory Committee are: (standing, from left) Bruce Penn, Department of Nuclear Energy (DNE); Ahovi Kponou, Alternating Gradient Synchrotron Department; Samuel Aronson, Physics Department; (seated, from left) Frances Ligon, ex officio, Office of Equal Opportunity (OEO); Randolph Church, National Synchrotron Light Source Department; Edward McFadden, Computing & Communications Division; Committee Chair Gregory Bagley, Accelerator Development Department, Sandra Lane, DNE; Marsha Kipperman, ex officio, Personnel Division; William Sells, Safety & Environmental Protection Division; Juanita Heyliger, Management Information Systems Division; and Assistant to the Director for Equal Opportunity, Glenn Jennings, ex officio. Not pictured: Women's Program Coordinator Virginia Brown, ex officio.

to enable protected classes to be employed in all categories throughout the Lab.

The nine members of A³ are appointed by the Director, to serve

terms of two to three years beginning April 1, so that about a third of the committee is replaced each year. The committee elects its own chairperson each year.

Recycled Paper Used for Bulletin

Over the past month, the Bulletin has been experimenting with a major change, and now we'd like to bring it to your attention: The Brookhaven Bulletin is now printed on paper containing at least 50 percent recycled materials, with at least 10 percent post-consumer waste.

The fact that our experiment went largely unnoticed shows that the quality of the recycled paper we have chosen measures up nicely against our former stock. But, now that we have verified that the paper is compatible with our printing process, we want to drop its anonymity. After all, we're proud to be able to make this positive environmental change with virtually no change in the overall cost of the paper.

There's also no change as to how you discard any already-read Bulletins: If you don't save them, you may continue to recycle them as white paper in the Lab's recycling program.

Training (cont'd)

Performance-based training is founded on assessing the content of a job to determine exactly what training is needed. During the pilot program at the AGS, White conducted assessments of four representative positions: technical, engineering, supervisory and scientific. Employee experts who actually do the job were the ones who, through a guided process, assessed the job. Three primary work locations in the AGS were also assessed to identify facility-specific training needs.

As Training Office Manager, White reports to Robert D'Angio, Manager of the Personnel Division. She receives additional guidance and support from a Management Oversight Committee (see photo) appointed by Samios. In addition, an Advisory Committee will identify regulatory requirements with overlapping training implications and give assistance in the areas of environmental protection, safety, health, quality and conduct of operations.

Mary White joined the BNL Personnel Division in 1984 and, as Manager of Training and Development, has been responsible for the Lab's management and supervisory development program.

White's commitment to the new BNL Training Office reflects her belief that training is essential to maintaining a highly skilled workforce.

"It is my sincere hope," she said, "that once the BNL training program is established and effectively addressing health, safety and environmental protection concerns, we may use the work accomplished as a basis for developmental training. Programs that expand employees' technical skills will be a valuable resource to both individuals and to the Laboratory." — Liz Seubert

In Memoriam

Henry E. Boyd, who retired from the Staff Services Division (SSD) for the second time in May 1990, died on February 22. He was 70 years old.

How Boyd first came to the Lab site in 1943 as a U.S. Army recruit and then stayed on at the fledgling Laboratory with an official start date of April 26, 1948, is chronicled in an article on "Henry Boyd's Reflections" which appeared in the Bulletin on May 23, 1986.

The Memorial Day story came as Boyd prepared to retire for the first time, as a Special Services Assistant in SSD with 38 years of service, leaving his duties of arranging conferences, dinners and other food service affairs. During a later emergency, however, Boyd willingly helped out, taking time away from his retirement horticultural activities at home and in his Riverhead community. He served as Special Services Supervisor from January 1989 to May 1990.

Henry Boyd is survived by his wife Louise; children Ronald, Wayne, Gail and Craig; five sisters, Jessie Boyd, Blanche Watkins, Lendora Manning, Willie May Boyd and Evelyn Davis; and one grandson.

Feldberg (cont'd)

without advanced mathematical skills can easily get useful answers to many difficult problems."

At present, Feldberg is developing computer simulation of electrochemical phenomena and computerizing his second-order chemical kinetics approach, so it can be available to more researchers.

"I was lucky in that, when I came to Brookhaven in the early '60s, I was at the right place at the right time to start this research," recalls Feldberg. "The Central Scientific Computing Facility had the most advanced computers of that day. Though I had never worked on computers before, the machines I needed to do the work were here, so I learned. I have been grateful that, over my years here, both the Lab and the Department of Energy allowed me great freedom in pursuing this work."

After taking his Ph.D. from Princeton University in 1961, Stephen Feldberg came to Brookhaven as a postdoctoral fellow, 1961-63. In August 1964, he joined the staff as an assistant chemist and became an associate chemist in 1966.

Feldberg was named Chemist in 1970, awarded tenure in 1973, and obtained his present title in 1985. He became CSD Head in October 1990.

'Murders' on Stage Tomorrow Night

Storyteller and crime historian E.J. Wagner will describe "Murders Done for Love," on Saturday, March 28, at 8 p.m., in Berkner Hall. This dramatic presentation drawn from fact and fiction is sponsored by Brookhaven Women in Science.

At the door, tickets are \$10 each, but, if purchased in advance, they are \$9 each. Buy tickets today at the Cafeteria from 11:30 a.m. to 1:30 p.m., or from any of the following:

Name	Bldg.	Ext.
Anita Cohen	134	5054
Susan Eng	515	7988
Pat Giacalone	911A	4628
Rae Greenberg	510A	5564
Louise Hanson	480	7709
Ellie Hughes	460	3339
Millie Laster	911A	3775
Harriet Martin	477A	3487
Vicki McLane	197D	5205
Mary Wood	490	5923

Arrivals & Departures

Arrivals	
Maj Britt G. Hansen	Ph. & G. Arts
Dipti Patel-Misra	Chemistry
Gordon R. Rawn	Saf. & Env. Prot.
John J. Romeo	Accel. Dev.
Wei Xie	Chemistry

Departures	
None	

Take the Bus To Art and Flowers

On Saturday, April 25, join a BERA Art Society Spring Rites Bus Trip to wander under cherry blossoms, tiptoe past tulips and drift through the conservatories in the Brooklyn Botanical Gardens. Then turn your steps into the Brooklyn Art Museum next door to be surprised by avant-garde French painter Arman and entranced by the magnificent permanent collection of American and European art.

The bus will leave BNL's tennis court parking lot at 9 a.m. and return by 6 p.m. Ticket costs are: bus, \$15; art museum, \$4 (seniors, \$1.50); and gardens, \$2.

Then, on Saturday, June 27, take the Midsummer Madness Bus Trip — a four-hours-each-way-&-worth-every-minute ride — to Longwood Gardens, Pennsylvania, where roses, lilies, rock gardens and fountains abound on the vast grounds. The group will also visit nearby Brandywine Art Museum with its small, yet superb Andrew Wyeth and early American art collection.

The bus will leave BNL at 6:30 a.m. and return by 10:30 p.m. Ticket costs are: bus, \$20; gardens, \$8; museum, \$4 (seniors, \$2.50).

For reservations and information, call Liz Seubert, Ext. 2346.

Pool Reopens, New Season Starts

With the special swimming pool maintenance now completed, a new, three-month season will begin on Wednesday, April 1, and end on Tuesday, June 30.

Tickets can be purchased at the pool during open hours. Hours and fees are as follows:

Monday through Friday
 11 a.m.-1:30 p.m. employees only
 1:30 p.m.-2 p.m. reserved for speed swimming and training
 5 p.m.-9 p.m. employees, families and guests*

Saturday and Sunday
 1 p.m.-5 p.m. employees, families and guests*

Daily Admissions
 Employee or family member \$2.00
 Guest \$3.00

Season Tickets (fees not prorated)
 Individual membership \$40.00
 Family membership \$50.00

*Guest ruling for all recreation facilities: One guest per employee permitted. Advance arrangements for additional guests, a maximum of five at any one time, must be made at the Recreation Office, Personnel Division, Bldg. 185. Guests must be accompanied by the employee.

Atlantic City Trip

Seats are still available for the next BERA-sponsored, one-day trip to Atlantic City, to the Trump Plaza Hotel and Casino on the Boardwalk, on Saturday, April 11. The initial cost will be \$20, but the hotel-casino will give a \$5 coin return, \$3 food offer and \$5 deferred-return voucher.

Tickets are on sale now at the BERA Sales Office in Berkner Hall weekdays from 9 a.m. to 2 p.m. For more information, call Carolann Zebrowski, Ext. 3347, Rosalie Piccione, Ext. 3160, or M. Kay Dellimore, Ext. 2873.

Join the 1991 Golf Champs for the 1992 BGA Season

An organizational meeting of the BERA Golf Association (BGA) will be held on Friday, April 3, at 5:15 p.m., in the lounge of the Recreation Building. The agenda includes the structure of the Team and Individual Leagues, this year's tournament schedule, and nominations for BGA president. Membership applications have been sent to all of last year's members, but new members are welcome and may obtain an application by contacting Ron Webster, Ext. 2845. The deadline for submitting applications is April 3.

Defending their Team League title during this 1992 season will be 1991 champs Jim Yerry (left) and Rick Jackimowicz (right), who defeated the team of Bill Sampson and Lou Snead in last year's finals. Regular season group champions were: Group 1, Uwe Bergmann and Jim Desmond; Group 2, Eldon Schmidt and See-Meng Wong; Group 3, Don Horne and Bob Jones; and Group 4, John Bennett and Curt Bergh.

Mike Losquadro (center) took the 1991 Individual League championship over runner-up Tony Baltz, in a match that was not decided until the last hole. The regular season group champions were: Group 1, Mike Losquadro;



Roger Stoutenburg

Group 2, Jesse Becker; and Group 3, Don Gates. Awards for the best season-long performance in the 1991 BGA tournaments went to John Usher and Bill Cahill.

Final Concert Features Leontovych Quartet



Their homeland is still in turmoil, but the music of the Leontovych String Quartet from Kiev, Ukraine, has survived the changes of two decades. In the final BERA concert of the 1991-92 season on Tuesday, March 31, at 8 p.m. in Berkner Hall, the ensemble will display their

virtuosity, which has grown with the experience of 2,000 concerts given over the past 20 years.

Founded at the Kiev Philharmonia in 1971, the Leontovych String Quartet made its American debut in 1988 at the Dag Hammarskjold Library, New York. The performance was so well received that the Musical Heritage Society immediately signed the ensemble to a recording contract and invited them back for the 1989 and 1990 festival seasons.

The quartet has toured extensively in the former Soviet Union, eastern Europe, Germany and Italy. Honored as laureate of the Leo Weiner International Competition in Budapest in 1978, the ensemble also won the Lyssenko Republican Award for popularizing Ukrainian chamber music in 1989.

The varied program for the concert consists of Mozart's Quartet in C Major, K. 465, "Dissonant"; Quartet Op. 11 by the modern American composer, Samuel Barber; and Quartet No. 8, Op. 110 by the modern Russian composer, Dmitriyevich Shostakovich.

Tickets for the concert can be purchased at the door for: \$12, general admission; \$9, students and people over age 65; and \$5, those under 18.

Lottery Slated for Mets Tickets

BERA has purchased a limited number of Mets' home-game tickets, which will be offered to BNL employees by lottery. The tickets are \$15 each, only for weekend games, with two or four seats available per game. No single seats will be sold.

The BERA Executive Board will conduct the drawing on Wednesday, April 1, at 3 p.m. Tickets will be distributed by lottery order on Friday, April 3, at 11 a.m. in Room D, Berkner Hall. Winners must be present that Friday when name and number are called to have first choice of games, dates, etc. Winners who cannot come to the ticket pickup on Friday, must send a designee or will forfeit the tickets.

Those interested in purchasing tickets should call Carolann Zebrowski, Ext. 3347, in the BERA Sales Office, 9 a.m. to 2 p.m., or M. Kay Dellimore, Ext. 2873, in the Recreation Office, 2-5 p.m., before Wednesday, April 1, at 2 p.m. You must give your name and the name of any designee, life or guest numbers, number of tickets desired (2 or 4), and a phone number at which you can be reached between 3-5 p.m. on Wednesday or all day Thursday.

A list of available tickets and dates is now available at the BERA Sales Office. For more information, call Carolann Zebrowski, Ext. 3347.

Disney World Video

Openings are still available for BERA's second annual trip to Walt Disney World in Orlando, Florida — a seven-day, six-night adventure, October 8-14.

To help you decide, you and your family are invited to come to Berkner Hall at noon, on Wednesday, April 1, to see the latest Disney videotape and ask questions about the trip.

A \$100 deposit now will reserve your places. For more information, call M. Kay Dellimore, Ext. 2873, or Carolann Zebrowski, Ext. 3347.

Cafeteria Menu

Monday, March 30
 Soup: Split pea .80/1.10
 Entree: Baked herb chicken w/1 veg. 3.20
 Entree: Spaghetti w/white clam sauce 3.20
 Fitness: Stir-fry beef & broccoli over rice 3.45
 Carvery: Hot pastrami sandwich 2.95
 Grill: 3-cheese melt w/fries 2.95

Tuesday, March 31
 Soup: Minestrone .80/1.10
 Entree: Taco bar (each) .90
 Entree: Roasted Cornish game hen 3.45
 Fitness: Broiled cod fillet Florentine 3.45
 Carvery: Hot roast beef sandwich 2.95
 Grill: Grilled mahi-mahi w/fries 3.25

Wednesday, April 1
 Soup: Mexican three-bean .80/1.10
 Entree: Fried fisherman's boat w/fries 3.45
 Entree: Pasta primavera 3.20
 Fitness: Baked chicken Shanghai over rice 3.45
 Carvery: Hot ham sandwich 2.95
 Grill: 3-D burger plate 2.95

Thursday, April 2
 Soup: Spring chicken & rice .80/1.10
 Entree: Navarine of lamb casserole 3.45
 Entree: Eggplant Parmesan w/1 veg. 3.20
 Fitness: Spaghetti w/marinara sauce 3.20
 Carvery: Hot corned beef sandwich 2.95
 Grill: Hot Reuben w/fries 2.95

Friday, April 3
 Soup: Manhattan clam chowder .80/1.10
 Entree: Baked flounder Normandy 3.45
 Entree: Szechuan chicken over rice 3.20
 Fitness: Baked veal Parmesan w/1 veg. 3.65
 Carvery: Hot turkey sandwich 2.95
 Grill: Tuna melt w/fries 2.95

Softball

All Softball League fees of \$275 per team are due by Wednesday, April 1. Send to Andrea Eppele, Bldg. 535A.

Basketball

Week of March 20

Trailblazers 94		Runaways 74	
T. Buck	28	G. Shepherd	18
T. Mayo	17	W. Cummings	16
R. Garappolo	13	J. Desmond	15
R. Domenech	12	J. Belz	12
D. Branch	12	M. Fulkerson	7
C. Edwards	8	L. Furenlid	4
A. Jones	4	R. Wells	2

3-point shots: W. Cummings, R. Domenech (2), R. Garappolo (3), T. Mayo, G. Shepherd.

X-Men 61		Scram 53	
J. Hobson	26	T. Powers	18
B. Gunther	10	S. Coleman	15
G. Mack	9	J. Skonieczny	8
E. Meier	8	E. Gregory	6
D. Nordstrum	6	J. Rank	4
G. Smith	2	J. Barkwill	2

3-Point shots: S. Coleman, E. Gregory (2), J. Hobson (3), T. Powers (3).

Bowling

Red/Green League

R. Wiseman had a 253/609 scratch series, R. Larsen 245/215/200/660 scratch, R. Mulderig 235, C. Bohnenblusch 231/611 scratch, T. Prach 231, M. Guacci 229, R. Wells 224, S. Dimaiuta 223, P. Giannotti 213, H. Dawson 211/201, S. Thompson 205, R. Priest 204, N. Parrinello 202, A. Warkentien 202.

L.I. Industrial Tournament

H. Arnesen had a 226/241/259/235 for a 961 scratch series, R. Larsen 224/269/222/905 scratch, A. Warkentien 240/236/829 scratch, R. Eggert 204/222/202/782 scratch. Team averaged 217 pins per man for 16 games.

Archery Club

The Archery Club will hold its monthly meeting on Thursday, April 2, at noon, in the Physics seminar room lounge, Bldg. 510. New members are welcome. For information, call Bill Schoenig, Ext. 2377.

BROOKHAVEN BULLETIN

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ANITA COHEN, Editor
 MARSHA BELFORD, Assistant Editor
 LIZ SEUBERT, Reporter

35 Brookhaven Ave., Upton, N.Y. 11973
 (516) 282-2345

Phys. Rev. Opening

The American Physical Society's Physical Review A seeks an editorial assistant to work about 20 daytime hours weekly. Will train responsible individual with interest in journal publication willing to make the commitment necessary to develop editorial skills. B.S. or M.S. in physics or related field or B.A. with some relevant job experience is required. Send cover letter and resume to: Joseph Ignacio, Personnel Manager, American Physical Society, 1 Research Road, Box 1000, Ridge, NY 11961.

Classified Advertisements

Placement Notices

The Laboratory's placement policy is to select the best-qualified candidate for an available position. Consideration is given to candidates in the following order: (1) present employees within the department/division and/or appropriate bargaining unit, with preference for those within the immediate work group; (2) present employees within the Laboratory; and (3) outside applicants. In keeping with the Affirmative Action plan, selections are made without regard to age, race, color, religion, national origin, sex, handicap or veteran status.

Each week, the Personnel Division lists new placement notices. The purpose of these listings is, first, to give employees an opportunity to request consideration for themselves through Personnel, and, second, for general recruiting under open recruitment. Because of the priority policy stated above, each listing does not necessarily represent an opportunity for all people.

Except when operational needs require otherwise, positions will be open for one week after publication.

For more information, contact the Employment Manager, Ext. 2882, or call the JOBLINE, Ext. 7744 (282-7744), for a complete listing of all openings.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees.

DD 0684. SECRETARIAL POSITION - Requires AAS in secretarial science or equivalent and a thorough knowledge of Laboratory policies and procedures. Demonstrated organizational skills and excellent communication skills are also required, as are experience with WordPerfect 5.1, FTTERM/VAMS, RBase, Lotus 1-2-3 and IPAP. Will provide varied secretarial support including correspondence, reports, arrangements for travel, meetings and conferences. Director's Office.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

LF 5090. TECHNICAL POSITION - Requires a BSMT or an AAS plus equivalent experience and ability to work from sketches and blueprints. Knowledge of machine-shop practices, soldering and brazing desirable. Responsibilities include fabrication, modification and assembly of mechanical components related to the synchrotron storage rings and beam lines; maintenance and upgrade of existing mechanical systems; and construction of new components and assemblies. National Synchrotron Light Source Department.

Motor Vehicles & Supplies

89 TOYOTA CELICA GT - red, a/t, ac, alarm, p/b, p/s, am/fm tape, wing & sport stripes, 60k mi., \$7,500. Paul, Ext. 2447.

89 GEO METRO - red, 4-dr., 5-spd., ac, am/fm, 76k mi., \$3,500. Joe, Ext. 2898 or 728-1859 eves.

89 NISSAN STANZA GXE - sunroof, ac, p/s, p/b, p/w, p/l, floor mats, door guards, more, low mi., \$9,500. S. Spark, Ext. 4111.

89 NISSAN 4x4 - 40k mi., 5-spd., p/s, p/b, king cab, rims, tires, roll bar, am/fm stereo, anti-theft switch, mint cond., \$8,200. Kevin, 736-1724.

88 ISUZU PICKUP - 5-spd., am/fm, new brakes, clean in & out, \$4,100. 369-0432.

87 HONDA SPREE MOPED - 4.8k mi., clean, runs well, Ext. 4770 or 628-8208.

87 NISSAN STANZA GXE - all power, fully loaded, am/fm cass., ac, 5-spd., excel. cond. in & out, \$5,500. Tim, Ext. 5277.

87 PLYMOUTH HORIZON - 75k mi., 4-cyl., v.g. cond., \$1,700. Stephan, 288-5233.

87 CHEVY SUBURBAN - Silverado pkg., fully loaded, excel. cond. in & out. Ed, Ext. 3353 or 585-4176.

86 TOYOTA CAMRY - 5-spd. sedan, p/s, ac, brown, low mi., well maintained, \$4,500. Paul Falkowski, Ext. 2961 or 751-5593 eves.

84 CHEVY CAPRICE CLASSIC - s/w, ac, p/s, p/b, p/w, am/fm, 110k mi., V-8, good cond., \$1,800. neg. 399-2757.

84 OLDS DELTA 88 - am/fm cass., ac, p/seats, 98k mi., excel. cond., \$1,875. Ext. 2769.

84 NISSAN SENTRA - 5-spd., 3.7k mi. on clutch, 27k mi. on '86 motor, ac, tilt, Clarion cass., 4-speakers, \$2,650. 286-8706.

83 MAZDA GLC - 5-spd. h/b, new Holley carb, \$350. Marie, Ext. 2950 or 399-3401.

82 VOLVO - 107k mi., DL 4-dr., a/t, ac, am/fm cass., cruise, tan, \$2,000. Bob, Ext. 4489.

81 CHEVY CAMARO - white, 65k mi. on new eng., v.g. cond. Ira, 475-8073.

80 PONTIAC TRANS AM - charcoal gray, p/s, p/b, T-top, low mileage, runs well, looks good, asking \$1,800. Jeff, 286-1348 after 6 p.m.

78 OLDS 98 - 2 dr., a/t, p/w, p/l, p/s, runs well, clean inside, asking \$500. Phil, 286-1348.

31 CHRYSLER - 2-dr., rumble set, all orig., excel. cond., ask. \$8,000. Rosalie, Ext. 3160 or 289-5704.

RIMS - 2, Centerlines, 8", for Ford pickup; 4 Laredo 31x10.50 FE headers, heads, flywheels, '69 Mustang seats. Wayne, Ext. 3084.

WHEELS - 4, slotted, for Ford pickup, need paint, \$75. Kathy, Ext. 2223.

BIG BLOCK - Chevy 454, disassembled, new oversized cam, rings, bearings, gaskets, block cleaned & honed, \$950. Edward, 661-9155.

TIRES - 6, 4 on rims, P235/75R15 for Ford pickup, Bronco, good cond., \$150. Bill, 878-4356.

TRAILER HITCH - Drawtite for '78 & newer mid-size GM cars, no drilling required, \$25. Brian, Ext. 2799.

TIRES - 2, P220/70R15; four 15" rims for '80 Trans Am, good cond., \$25. Jeff, 286-1348.

Furnishings & Appliances

BEDROOM SET - contemp., \$125; hutch, \$50. Walter, Ext. 4958 or 821-9451.

BUNK BEDS - can be single beds, excel. cond., \$125. Ext. 2769.

CABINET - video, Ethan Allen, like new, \$900; 2 upholstered chairs, \$300/ea.; drop-side end table, \$200; all country French. 475-2509.

CHAIRS - 2, wicker fan, w/pillows & round table, excel. cond., \$100. Carla, 821-6252.

CHAIRS - 2, red velvet, fireside, w/wooden trim, like new, \$180; tan recliner chair, like new, \$180. 732-2720.

CHAIR - oak, straight back, needs seat & refinishing, \$15. Susan, Ext. 7647.

COFFEE MAKER - Proctor Silex, 12-cup, 24-hour timer, digital clock, white, new, still in box, \$30. Ted, 924-0705.

COFFEE TABLE - Queen Anne style, brown, like new, \$20. 345-2551 eves.

FREEZER - AMC, 30 cu. ft., v.g. cond., \$85. Ext. 5265.

LIVING ROOM - pine, teal, couch, 2 chairs, 2 lamps, table, footrest, \$500. neg. Steve, 369-4922.

RANGE - GE, electric, 30", avocado, excel. cond., \$50. Ext. 2095.

ROCKING CHAIR - antique, early 1900s, \$150. 821-0695 after 4 p.m.

SOFA BED - queen size, light green tapestry, excel. cond., \$95. 369-0432.

STORM DOOR - new, heavy-duty, 30", w/screen, cross buck, brown, \$100. Janet, Ext. 4049.

TV'S - Sylvania, 25", console, color, \$125; 12" Magnavox, port, b&w, \$50; Sears, b&w, port, w/fm radio, ac, batt., \$50. Ext. 7039 or 289-8428.

VACUUMS - Eureka, 3.2 h.p., all attach., must sell, orig. \$200, sell for \$100; Sears Kenmore SPV Super Power vacuum, \$15. Joann, 472-6742.

Tools, House & Garden

GRASS CATCHER - for lawn mower, side attachment, \$15. 369-0432.

KEROSENE HEATER - like new, all access., \$125. 698-2798.

HOT AIR FURNACE - oil fired, 90k Btu, 2 yrs. old, Beckett burner, humidifier, \$375 takes all, Ext. 7145 or 758-3215.

LAWN MOWER - Sunbeam, rear bagger, needs tune-up, \$30. John, Ext. 4028.

LAWN MOWER - Snapper, 21", self-propelled, w/mulcher, 4 h.p., good cond., \$50. 924-5418.

RIDING MOWER - 8 h.p., 36" cut, electric start, pneumatic tires, good cond., \$350. Ron, 929-8182.

WATER TANK - 30 gallon, lined, w/air bladder, \$50. Ext. 7039 or 929-4450.

PUMP JACKS - 5 roof brackets, 2 yrs. old, \$100; boy's 10-spd. bike, \$50. Ext. 3082.

WINDOW - Andersen, triple, 4'x6", thermal pane w/bottom louvers, \$500. 929-6235 after 5 p.m.

WINDOW - Andersen, energy-efficient, screen frame, 25 1/2"x40 1/2", new, never used, white, \$150. Ext. 4611 or 286-2788.

Sports, Hobbies & Pets

ART SUPPLIES - metal closets; ice cream maker; toaster oven; phones, ski/row machine; encyclopedias; TV, more. Saxon, 929-4701.

BIKE - Lotus Odyssey, 10-spd., \$250. Ext. 4144 after 5 p.m.

DOLLS - Princess Diana & Prince Charles, 19" & 21", porcelain, in wedding outfits, \$450. 727-0082.

EASTER BUNNY - trained house pet, large cage, pine shavings, access., \$50; bird cages, \$8-\$35. Kelly, 744-3069.

PING-PONG TABLE - excel. cond., w/accessories, \$60. Brian, Ext. 2799.

R/C HELICOPTER - Superior Helicopter, .61 engine, 8-channel fm radio, orig \$900, asking \$550. Nancy/Joann, 472-6742.

ROWER - Sears Lifestyler 2200, multi-action, \$50; Berkel commercial slicing machine, on stand, \$500; 1987 Honda 350, \$250. Ray, 289-0883.

ROWING MACHINE - Lifestyler 2000 DP, multi-function gym, many different positions, orig. \$120, asking \$50. Ext. 5265.

TABLE - glass top, 72"x42", marble base, excel. cond., orig. \$600, sell for \$200. Don or Jackie, 744-2921.

WEIGHT SET - Weider, 310 lb. Olympic, 2 barbells, \$120; standard weights, 275 lbs., \$100; Marcy bench, \$30. Marie, Ext. 2950 or 399-3401.

YARN - very large spools, single strand, rust & brown, \$8/ea.; enlarging lens, 50mm, 2.8, \$75. Susan, Ext. 7647.

Audio, Video & Computers

CD PLAYER - Harmon/Kardon 4D7500II, new, 2 yr. warranty, orig. \$500, make offer. Vasilis, Ext. 2830 or 543-0487.

COMPUTER - Apple, dual processor, II+/CPM-80, dual drives, monitor, Epson NLQ FX printer, software, \$200. Don, 744-2921.

COMPUTER - Commodore C64, 1541-II disc drive, 13" Magnavox color mon., 2 Tac-3 joysticks, Xeter Jr., Desktop plus, games, \$280. 475-6981.

COMPUTER - Commodore 64, 1541 disk drive, software, cables, joystick, best offer. Ted, 475-8242.

COMPUTER - Tandy 1000, 3 1/2" drive, joystick, modem, printer, games, asking \$400. Guy, Ext. 3147 or 689-5378 after 7 p.m.

COMPUTER - Zenith laptop 286, ac/battery, 20 meg, hard drive, 3.5" floppy, super twist backlit screen. John, Ext. 5565.

MOVIE CAMERA - GAF XL/2, 2:1 zoom, Super 8, used a few times. Mary, 924-6235.

TURBO GRAFX 16 - like new, excel. cond., 5 games included, asking \$150. Kristin, 473-6140.

Miscellaneous

BABY'S ITEMS - infant's car seat, carriage, playpen, 2-piece swing, walker, infant & toddler clothing, girls & boys. 924-6235.

DRESSER - child's, white, 4-drawer, w/hanging compartment, \$45; storm door, steel, w/wood core, 35 1/2"x6'7 1/2", \$75. Dave, 924-4968.

FUR COAT - mink, car length, white, worn twice, orig. \$3,000, sell for \$1,000. John, Ext. 7039 or 929-4450.

MACRAME HANGERS - includes 8" or 10" pot, many styles, colors & lengths, \$13. Laurel, 399-6325.

ENGAGEMENT RING - diamond, custom setting, 2.75 ct. wt., \$4,500 firm. 265-3208.

TICKETS - 2, Broadway, Miss Saigon, Sat., 6/20, 2 p.m., 1st row balcony, \$65/ea. Inan, Ext. 3372.

MET TICKETS - 2, various home games, loge, section 17. Bill, Ext. 2171.

WEDDING GOWN - designer, size 6/8, complete w/veil, \$150. 821-0695 after 4 p.m.

Free

DOG - beagle, female, 4 yr. old, warm & affectionate, great w/children. 331-6473.

HIGH RISER - old but usable, one mattress. Saxon, 929-4701.

STAIRCASE ESCALATOR CHAIR - for the invalid. Joe, Ext. 3587 or 286-1479.

Car Pools

NYC - will meet anywhere along LIE. John, Ext. 5709.

Real Estate

Real Estate advertised for sale or rent is available without regard for the race, color, creed, sex or national origin of the applicant.

For Rent

BROOKHAVEN HAMLET - 1-bdrm. apt., l/r, kit., lg. bath, priv. country lane, quiet single, \$650/mo. + util. & 1 mo. sec. 286-0422 after 6 p.m.

BROOKHAVEN HAMLET - 1-bdrm. apt., l/r, kit., fully tiled bath, furn. or unfurn., cable TV, priv. ent., immaculate, no pets, mature single only, \$575/all. Fred, Ext. 4798 or 289-4798.

CORAM - nice area, own room in spacious priv. home, \$300/single or \$500/huge master bdrm. w/priv. bath. Ext. 7897 or 331-0807.

E. PATCHOGUE - 1 bdrm., kit., l/r, bath, sep. ent., mature nonsmoker, no children, 1 mo. sec., refs., \$500/mo. incl. util. Marilyn, 286-3508 after 6 p.m.

EASTPORT - townhouse, 3 bdrm., 2 1/2 baths, gar., fp, skylights, tennis courts, wooded, no pets, \$1,050/mo. (301)903-7684 days or (301)540-8507 eves.

FARMINGVILLE - bdrm., share bath, 20 min. from Lab, \$85/wk. 732-2786.

FARMINGVILLE - apt., l/r-bdrm. combo, full kit., bath, priv. ent. & drive, furn., cable, 10 min. to Lab, \$500/all. Ext. 3160 or 289-5704 after 5 p.m.

MASTIC PARK - 1-bdrm. apt., kit./dinettes, l/r, full bath, 1 block waterfront, working couple, \$600/mo., sec. & refs. 281-7844 eves.

MEDFORD - 1-bdrm. Blue Ridge upper condo, l/r, d/r, kit., all appl., cac, full club facilities, nonsmoker, \$700/mo. + util., 1 mo. sec. Russ, Ext. 3059 or 758-3952 after 6 p.m.

MIDDLE ISLAND - share condo, master bdrm., walk-in closet, furn., pool, tennis, cable, \$430/all. Ext. 3160 or 289-5704 after 5 p.m.

MIDDLE ISLAND - Artist Lake, 1-bdrm. condo, kit., l/r, d/r, 1 bath, heat incl., w/d, cac, 5 min. to Lab, \$700/mo. + util. & 1 mo. sec. 924-1730.

MIDDLE ISLAND - immediate, 1-bdrm. upper unit, balcony, cac, pool & tennis, clean, \$650/mo. + electric. Ext. 5265.

MIDDLE ISLAND - large 1-bdrm. co-op apt., l/r, d/r, bath, 2 walk-in closets, cac, 7 min. to Lab, immed. occup., \$600/mo. + elec. & 1 mo. sec. Vicki, Ext. 2907 or 345-3306 after 5:00 p.m.

MIDDLE ISLAND - 2-bdrm. furnished condo, l/r, d/r, 1 1/2 baths, all appl., clubhouse, pool, tennis, 5 min. to Lab, \$875/mo. + util. 751-8351.

NORTH SHIRLEY - 2-bdrm. + apt., priv. ent., full bath, \$700/mo. & \$50/mo. towards util., 1 mo. sec. Ron, Ext. 3198 or 281-1144.

NORTH SHIRLEY - 2-bdrm. upstairs apt., eik, l/r, full bath, priv. ent., all utilities, 5-10 min. to Lab, \$700/mo. 924-7849 after 5:30 p.m.

NORTH SHIRLEY - 1-bdrm. unfurn. apt., w/w, full bath, l/r-kit. combo, 3 miles to Lab, \$575/mo. incl. util. & cable. 395-9112.

OLD MASTIC - small 2-bdrm. house, 1 1/2 baths, w/2-rm. studio w/full bath, all appl., 2 fp, screened porch, wooded setting, near water, 20 min. to Lab, avail. April 1, \$880/mo. + util. Hans, Ext. 3737.

RIDGE - furn. studio apt., fenced-in yard, 3 miles from Lab. Ext. 2673 or 744-8632.

ROCKY POINT - det. studio apt., sep. yard, off-street parking, \$450/mo. + util. & sec. 744-5077.

ROCKY POINT - 2-bdrm. house, full bath, large eik, low outside maint. (no grass), gas stove, OHWH, shed, \$800/mo. + util., 1 mo. sec., avail. April 1. Bill, Ext. 4048.

WADING RIVER - 1-bdrm. apt., large l/r, full bath, priv. ent., 10 min. to Lab, \$650/mo. incl. all, 929-5872 after 6 p.m.

YAPHANK - 4-bdrm. apt., 2 baths, large l/r, d/r, full kit., all appl., fp, large wooded fenced yard, 5 min. to Lab, no pets, \$1,100/mo. + sec., 1/2 util. Mike, Ext. 4986.

YAPHANK - 2-bdrm. house, l/r, d/r, lg. kit., bath, porch, \$750/mo. + util. John, Ext. 3302 or 924-0651.

CATSKILLS - 3-bdrm. chalet w/sleeping loft, fully furn., near Hunter & Windham Mts., great for skiing. Kay, Ext. 4501, or Bea, Ext. 3642.

HILTON HEAD, SC - 2-bdrm. condo, sleeps 6, fully furn., 2 baths, tennis, beach, golf nearby, March, \$300/wk. Guy, Ext. 3147 or 689-5378.

For Sale

BELLPORT - 3-bdrm. ranch, l/r w/fp, d/r, bath, full bsmt., 20/20 deck, det. 3-car gar., shy 1/2 acre, SC SD, city water, garbage pickup, near village, dock, \$150,000. Ext. 5241 or 286-3377 after 7 p.m.

BROOKHAVEN HAMLET - 3-bdrm. cedar shake Cape, 1 1/2 baths, lg. l/r, d/r, eik, spa rm., unfin. bsmt. w/shop, 2-car gar. w/utility bldg., dock rights, low taxes, \$195,000. Hurst, Ext. 3844.

CORAM - N. of Rt. 83, mint 4-bdrm. contemp. Col., l/r, d/r, fam. rm., fp, fin. bsmt. w/nightclub, 2-car gar., 1/3 acre, beautiful ground, \$135,000. Ext. 7897 or 331-0807.

LAKE GROVE - 3-bdrm. hi-ranch, l/r, d/r, new eik, den, 1 1/2 baths, 2-car gar., new carpets, remodeled bath, Andersen windows, vinyl siding, covered patio, igs, appl., \$162,500. 588-6417.

MANORVILLE - South Manor SD, 3-4 bdrm. Col., master suite w/whirlpool, 2 1/2 baths, l/r, kit., d/r, fam. rm., fp, bsmt., gar., 1 acre, igs, satellite, \$196,000. 878-9239.

MANORVILLE - 3-bdrm. house, d/r, l/r, large kit., 2 1/2+ acres, 2-car gar., lg. carport, patio, 2nd gar., garden, fruit trees, evergreen bed, new roof, other sheds, \$175,000. 878-6637.

MIDDLE ISLAND - 3-bdrm. townhouse, Coventry Manor, 2 baths, kit., l/r, d/r, laun. rm., cac, 5 appl., patio, pool, tennis, new carpet, ask. \$93,000. Rosalie, Ext. 3160 or 289-5704 after 5 p.m.

N. SHIRLEY - 3-bdrm. ranch, 1/3+ acres, fenced yard, new boiler, HW heater, windows, renovated contemp. kit., bsmt., igs, by Southaven Park, many extras, mint cond., \$122,500. Jim, Ext. 2957.

N. SHIRLEY - 2-story, 3-4 bdrm., l/r, d/r, 2 baths, 1/2 bsmt., new appl., laundry rm., 2 decks + pool w/deck, 1/2 acre, near LIE, Lab, Longwood SD, \$120,000. Kathy, 345-3778.

N. SHOREHAM - 3-bdrm. L-shaped ranch, d/r, sunken l/r, eik, oak floors, fin. bsmt., workroom, 2-car gar., 1/2 acre, igs, deeded beach rights, \$179,900. Mike, Ext. 5972 or 744-4579.

RIDGE - 2-bdrm. condo, 1 1/2 baths, new appl., mint cond., 5 min. to Lab, new eff. htg. syst., storage shed; low maint. \$75,900. Rob, 924-2832.

SELDEN - 4-bdrm., 1 1/2 baths, splanck Colonial, eik, l/r, d/r, fam. rm., fin. bsmt., gar., energy eff. windows, fenced-in yard, extended driveway, excel. cond., \$128,500. 732-1389.

SHIRLEY - 3-bdrm. ranch, 1 1/2 baths, full bsmt., lg. eik, 5 yrs. old, fenced-in yard, Tangiers section, low taxes, \$117,000. Jeff, Ext. 5587.

SHIRLEY - 3-bdrm. ranch, designer bath w/skylight, full bsmt. w/laundry rm., all oak floors, d/r, l/r, sec. lights, fully fenced on 100'x100', \$110,000. Ext. 3531 or 281-7578.

SHIRLEY - 3 lg. bdrm., d/r, l/r, full fin. bsmt., att. gar.,