BROOKHAVEN BULLETIN

Vol. 47 - No. 45 November 12, 1993

BROOKHAVEN NATIONAL LABORATORY

CAP Hosts Vsystem Workshop

Among the 35 participants attending the First Workshop on Applications of Vsystem Software and Users' Meeting held at BNL on September 8-10 were: (seated, from left) Ray Juras, Oak Ridge National Laboratory; Bob Westervelt, Vista Control Systems, Inc. (VCS); Marcelo Dias Ferraretto, University of Sao Paulo and Argonne National Laboratory; (standing, from left) Carole Barton, Rutherford Appleton Laboratories; Peter Clout, VCS; Paul Gibbons, Oxford Instruments Ltd.; Gregory Maier, Mobil Research & Development Corporation; Berend Kuiper, CERN; and Robert Malone, BNL. (See story on page 2.)

RAP on Site

Gathered by a specially equipped helicopter during the Radiological Assistance Program (RAP) seminar on September 15-16, are: (from left, kneeling) Steve Centore, RAP Regional Response Coordinator, DOE Brookhaven Area Office (BHO); Nate Foster, Kathleen McIntyre and Joe Cracco, all of SEP; (standing) Mike Holland, Nuclear Programs Branch Chief, BHO; George Hughes, Joe Klemish, Bruce Murray and Paul Bergh, all of SEP; and Rich Vortech, Andrews Air Force Base. (See story on page 2.)

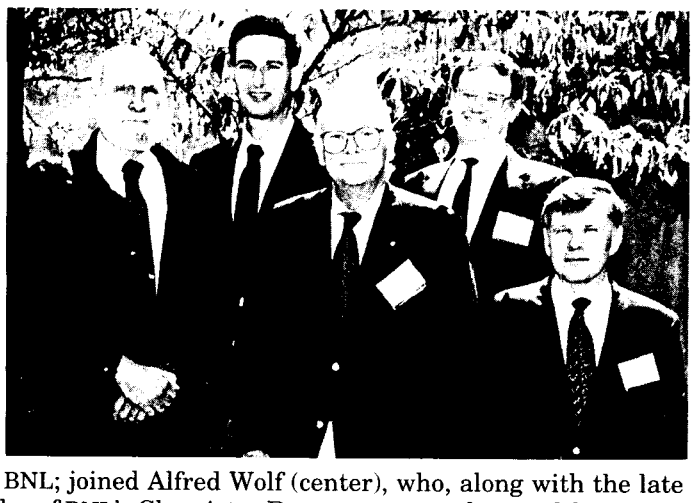
Remember September?

Try to remember the kind of September when meetings came in great profusion . . .

That's the kind of September it was this year at BNL. Now, deep in November, it's time to remember and take a look back at the meetings that brought so many to Brookhaven to discuss a variety of topics.

— Photos by Roger Stoutenburgh

On Target With Target Chemistry

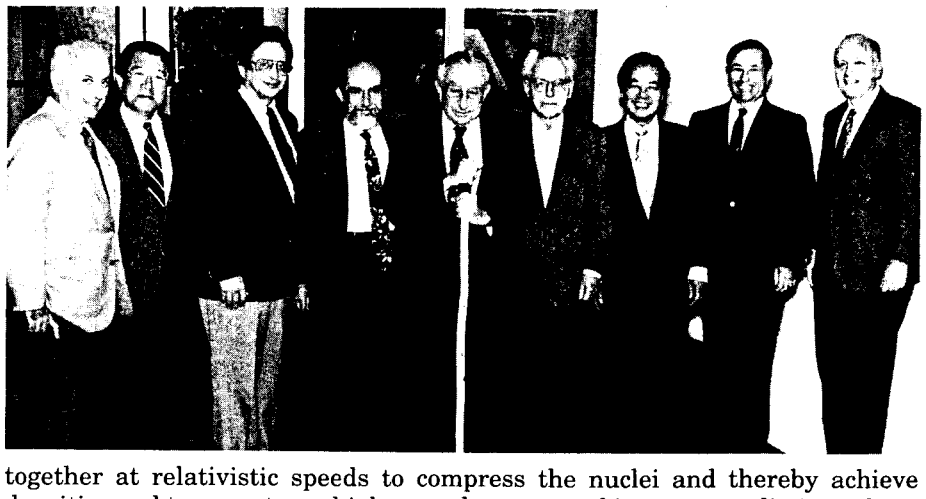


At the Fifth International Workshop on Targetry and Target Chemistry, held September 19-22, organizing committee members (from left) Robert Dahl, North Shore University Hospital; Richard Ferrieri, BNL; (from right) Ron Finn, Memorial Sloan-Kettering Cancer Center; and David Schlyer, BNL; joined Alfred Wolf (center), who, along with the late David Christman, also of BNL's Chemistry Department was honored for contributions to the field. (See story on page 2.)

Teller Talks on RHIC

As Laboratory Director Nicholas Samios (third from left) described the nuclear physics seminar on September 30, while discussing the potential of BNL's Relativistic Heavy Ion Collider (RHIC), physicist Edward Teller (center) spoke loudly and carried a big stick. This variation on the persuasive approach advocated by Theodore Roosevelt was a matter of personal style, not necessity, as the audience for "RHIC and the Many Body Hadron Problem" was already sold on the usefulness of RHIC and interested in what new experiments Teller had to suggest.

In the early 70s, he was one of the first to propose colliding heavy nuclei



together at relativistic speeds to compress the nuclei and thereby achieve densities and temperatures high enough to test and improve predictions about the different phases of nuclear matter — and, ultimately, creating the nuclear plasma state. Called quark-gluon plasma, it is predicted to be made up of quarks and gluons last freed from the confines of the atomic nucleus immediately after the Big Bang.

Now, twenty years later, Teller came to Brookhaven to explain "Why I consider RHIC to be the most important high-energy facility that could be planned at this stage." During his talk, Teller threw two more possibilities for RHIC experiments into the ring: a look at the electron-positron pairs produced in the strong electromagnetic fields created during collisions of relativistic heavy nuclei, and, more important, a search for the magnetic monopole, the hypothetical particle theorized to carry magnetic charge, which is also supposed to be produced in those fields. Teller concluded, "The progress of science depends on surprises — surprises that will come, with data so rich, from RHIC."

Meeting with Teller after his talk were (from left): Nobel laureate Mel Schwartz, BNL's Associate Director for High Energy & Nuclear Physics; RHIC Project Head Satoshi Ozaki; Nicholas Samios; Teller's nephew and visiting BNL physicist Janos Kirz, State University of New York at Stony Brook; AUI Distinguished Scientist emeritus Maurice Goldhaber; Nobel laureate T.D. Lee, Columbia University; BNL Deputy Director Martin Blume; and Physics Department Chairman Peter Bond.

New Frontiers of Accelerators

Conveners, organizers, speakers and supporters of the Symposium on Frontier Applications of Accelerators, held September 28, included: (from left) convener and BNL Deputy Director Martin Blume; speaker David Burke, Stanford Linear Accelerator Center; speaker Gunter Bauer of the Paul Scherrer Institute, Switzerland; AUI Distinguished Scientist emeritus Ernest Courant; symposium organizer, convener and physicist Zohreh Parsa, CAP; Andre Michaudon, Los Alamos National Laboratory; convener and BNL Director Nicholas Samios; speaker and CAP Head Robert Palmer; convener Jack Sandweiss, Yale University; speaker and Deputy Department Chairman of the National Synchrotron Light Source Samuel Krinsky; and convener and BNL Associate Director for High Energy & Nuclear Physics Mel Schwartz. (See story on page 2.)

Brighter Tomorrows Start Today Through You and the United Way

The Long Island United Way (LIUW) is about to kick off its 1994 fund-raising campaign at BNL. With more than 150 local community agencies counting on the United Way for help, your donation will help turn some Long Islanders' gloomy yesterdays and todays into brighter tomorrows.

Just ask Jack Russell, Contracts & Procurement Division, who survived childhood polio without losing his ability to walk because of care provided at a Port Jefferson children's hospital supported by charitable donations. To give back to the community that helped him, Russell has served as a division captain for the BNL campaign.

Or ask Betty Pergan, Department of Applied Science, whose elderly mother received therapy through a United Way-sponsored organization while recovering from surgery. At 96, 14 years after the operation, she's still going strong. And Pergan is now in her 15th year as pledge collector for BNL's campaign.

Or ask Ron Manning, the 1994 LIUW Chairman for BNL. Together with volunteer representatives from each department and division, the Staff Services Division (SSD) Manager is aiming to collect $100,000 in donations by December 3. The three-week campaign officially begins this Monday, November 15, when pledge cards will be delivered to employees.

"In the present economy, those who are less fortunate than we are need our help more than ever," Manning explained. But, he said, he and his volunteers can only accomplish their goal with the help of every BNL employee, through donations large and small.

All pledge cards submitted by Friday, December 3, will automatically be entered in drawings for several prizes. The earlier you pledge, the more drawings you'll be entered in, with winners to be picked on November 19 and 24 and December 3. One lucky BNLer will win the grand prize, a gala weekend for two in New York City, including hotel, dinner and theater tickets.

During the campaign, this year for the first time, BNL department and division captains can call on LIUW professionals for help in fund-raising.

To spread the word about how United Way helps Long Islanders through health, recovery, recreation and support programs, LIUW representatives will be available to speak to every department or division's employees at the campaign kickoff meeting. They'll also staff a communications center in SSD, Bldg. 179, during the campaign. They'll be led by Arthur Roeder and Carol Salamone, executives on loan to LIUW from UPS and LILCO, respectively, and Jaime Suarez, LIUW Assistant Vice President for Region 5. — Kara Villamil

Roger Stoutenburgh

Gearing up for BNL's 1994 United Way campaign, are: (clockwise from bottom right) Ron Manning, BNL Campaign Chair; Betty Pergan, BNL United Way financial coordinator; Carol Salamone, LILCO Loaned Executive to Long Island United Way (LIUW); Arthur Roeder, UPS Loaned Executive to LIUW; and Jack Russell, BNL United Way volunteer.

Public Meeting Next Week

BNL will hold a public meeting on Wednesday, November 17, to present plans for dealing with certain areas of environmental contamination at the Lab. The meeting will be held in Room B of Berkner Hall, beginning at 7:30 p.m. Employees are invited to attend.

The meeting will address specific areas in the southeast section of the Lab property that are grouped together and called Operable Unit I. The primary areas of concern in Operable Unit I are the Lab's two inactive landfills, as well as the waste-management facility. Also of concern is an area of groundwater contamination, which had been initially remediated by a spray-aeration technique.

BNL is on the National Priorities List of the U.S. Environmental Protection Agency. This is a roster of sites that are considered high priority for cleanup under the federal Superfund Program. All work must be approved by New York State, the Environmental Protection Agency and the U.S. Department of Energy, which, as the federal agency that has jurisdiction over the BNL site, is responsible for investigation and remediation costs.

New Frontiers of Accelerators

With the successful operation of the Alternating Gradient Synchrotron at ever higher intensities and with the construction of the Relativistic Heavy Ion Collider (RHIC) well under way, Brookhaven's high energy and nuclear physics complex will be at the forefront well past the turn of the century. But, for physicists who come of age in the 21st century, what accelerators will lie at their frontiers? And, what applications of accelerator technology will be possible?

Not only the continual focus of the Lab's Center for Accelerator Physics (CAP), these two questions were also at the center of a day-long Symposium on Frontier Applications of Accelerators, held at BNL September 28. Well attended by approximately 150 accelerator, particle, nuclear and condensed-matter physicists and others from BNL, universities and other national and international labs, the symposium featured five speakers, who presented the field's experience with particular accelerators or applications to date, and the prospects for the future based on the latest theory and experiments.

Presentations included: a discussion of the future design of linear colliders, a look at an unconventional muon collider, prospects for a ultraviolet free electron laser as a future light source, thoughts on using accelerators instead of reactors as sources of neutrons for scattering experiments, and the possibilities of using RHIC as a hadron collider to study particles made up of bottom quarks.

— Marsha Belford

Target Chemistry

About 120 researchers from 16 countries came to BNL September 19-22 for the Fifth International Workshop on Targetry and Target Chemistry, a forum for the discussion of problems associated with accelerator-produced radionuclides, with special focus on radionuclides with short half-lives, such as those used in Positron Emission Tomography (PET). PET is an imaging technique that uses radiotracers to study metabolic processes in the human body.

Targetry involves bombarding high-energy particles onto gas, liquid or solid materials to induce specific nuclear transformations, thus creating radioisotopes that can be recovered in a usable chemical form for subsequent radiotracer synthesis. Target chemistry focuses on understanding the physical, chemical and radiation-induced processes in the target material and on the dynamics involved when it is bombarded by a charged-particle beam with an energy of several million electron volts.

Hosted by BNL for the first four days and by North Shore University Hospital on September 23, the workshop was sponsored by the U.S. Department of Energy along with ten industrial partners from the U.S., Canada, Germany, Japan and Sweden. The BNL portion was organized by Richard Ferrieri and David Schlyer, both from BNL's Chemistry Department, who agreed that the exchange of information at the workshop between research and industry — those who encounter problems with radionuclide production and those who can make modifications to the commercial equipment for producing them — was highly valuable to the advancement of nuclear medicine.

At the workshop, Alfred Wolf and the late David Christman, who both joined BNL's Chemistry Department in 1951, were honored for their contributions to targetry and target chemistry. Wolf, a senior chemist who had served as chairman of Chemistry from 1982 to 1987, has been in charge of the Laboratory's PET program for many years. Christman retired from the Lab as a chemist in 1989 and had continued as a consultant to the Chemistry Department until his death last May.

— Diane Greenberg

VSystem Workshop

"Vsystem is a computer software package used to build and customize facility control systems," explained Robert Malone, a computer systems analyst at Brookhaven's Accelerator Test Facility (ATF) in the Center for Accelerator Physics (CAP), who organized the first Workshop on Applications of Vsystem Software and Users' Meeting, held September 8-10, with the help of Irene Bottke, a student assistant at the National Synchrotron Light Source; and Kathleen Tuohy, administrative secretary for CAP.

According to Malone, Los Alamos National Laboratory, in a U.S. Department of Energy-funded technology transfer project with VCS, developed Vsystem in 1989. Many laboratories and industrial users have since adapted the system to control and pinpoint problems in their facilities. At BNL, for example, Vsystem software is used at ATF, the experimental installation for CAP, which performs advanced accelerator and beam physics research and development as a collaboration of various BNL departments.

CAP sponsored the workshop, which included advanced tutorial sessions and discussions on the various ways users have extended and adapted Vsystem software. By the end of the workshop, participants had agreed to set up a computer on the BNL network as the central repository for a users' software exchange and continued discussions. — Diane Greenberg

RAP Group on Site

The helicopter parked on the field near Police Headquarters last September is specially equipped with an aerial monitoring system to check for radiation. It was here for the Radiological Assistance Program (RAP) seminar on September 15-16, sponsored by the U.S. Department of Energy (DOE).

RAP teams, which at BNL primarily consist of staff pulled from the Safety & Environmental Protection (SEP) Division, provide emergency assistance to state and local agencies in order to control radiological hazards, protect the public health and safety, and minimize property loss. Representatives of 11 northeastern states attended the two-day seminar, where DOE and BNL personnel gave an overview of DOE's radiological resources.

This past July, SEP's Paul Bergh, Nate Foster, Joe Klemish and Kathleen McIntyre formed a RAP team that participated with New York State in an exercise at Nine Mile Point Nuclear Station in upstate New York, where a major reactor accident was simulated. In a drill with Suffolk County, Murray and Pat Sullivan (missing from the photo on page 1) helped recover an abandoned radioactive source at MacArthur Airport.

— Mona S. Rowe

Equipment Demos

EG&G Nuclear Instrumentation will demonstrate the new CAEN high-voltage power supply all day today, Friday, November 12, in Berkner Hall, Room D.

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The LeCroy Corporation will host its annual demo day on Tuesday, November 16, from 9 a.m. to 3 p.m., in Berkner Hall. Products to be demonstrated include: model 9360, 600-MHz 5-GS/s digital oscilloscope; model 7262, 4-GHz 100-GS/s RIS sampling plug-in; model 9214, 300-MHz pulse generator; model 1454 HV mainframe; and model 1462, 20-channel, 3-kV PMT plug-in supply.

•

IOtech, Inc., will present two New Visual Basic/Microsoft Windows data acquisition & IEEE 488 seminars, on Wednesday, November 17, at 9 a.m. and at 1 p.m., in Berkner Hall. To register, call (201) 633-7070.

Reserve Now For the Holidays

Recreation Building

Lab organizations and BERA groups interested in reserving the Recreation Building in the apartment area for holiday parties are invited to send a representative to a meeting on Tuesday, November 16, at 11 a.m. in the conference room of Building 185.

As in past years, reservations will be made in the order determined by a lottery, which will be held for those at the meeting. As long as dates remain available, subsequent reservations may be made through Tuesday, November 30, by contacting the Recreation Office, Ext. 2873.

Brookhaven Center

Reservations for parties at the Brookhaven Center may be arranged by calling Jane Guido, Staff Services Division, Ext. 2553.

Note to Employees:

Attendance at lectures, meetings and other special programs held during normal working hours is subject to supervisory concurrence.

Keep on Sortin' Your Paper Trash

Now that you've gotten a white plastic mixed paper recycling bin, here's a reminder: It's still important to keep white paper separate from mixed paper when recycling.

The Plant Engineering (PE) Division reports that some BNLers have been mixing the two in the first weeks of mixed-paper recycling. But doing so hampers the paper-recycling process.

So just remember: White paper goes in the "raccoon" bin, the items specified on the mixed-paper recycling list go in the new plastic bin, and everything else goes in the trash. If you have any questions, contact your department or division's recycling manager or PE's recycling coordinator.

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Coming Up

George Hendrey, Head of the Biosystems and Process Sciences Division in the Department of Applied Science, will deliver the next Brookhaven Lecture. Entitled "FACE in the Forest: Manipulating Intact Ecosystems," his talk will begin at 4 p.m. on Wednesday, November 17, in Berkner Hall.

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Pianist Ruth Laredo will return to BNL for a solo concert on Wednesday, December 1, at 8 p.m. in Berkner Hall. Her program, called "Homage to Rachmaninoff," will include a number of compositions by the artist, as well as several pieces by Alexander Scriabin.

Purchase tickets at the door for $14, general admission; $9 students and people over 65; $5, those under 18.

Bake Sale

The Upton Nursery School will sponsor a bake sale in the lobby of Berkner Hall on Thursday and Friday, November 18 & 19, from 11:30 a.m. to 1:30 p.m. The on-site school is a cooperative nonprofit organization and depends on fund-raisers for much of its budget, so please come and eat heartily.

Microcomputer Club

The BNL Microcomputer Club will next meet on Thursday, November 18, at noon, in the large conference room, second floor AGS, Bldg. 911B. Tom Dickinson, National Synchrotron Light Source Department, will speak on "Your PC's Printer Port as a Window on the Real World."

As he will explain, very simple software can be used to output eight-bit numbers or commands, or input five-bit quantities or signals through the printer port. Around the house or in the lab, you can record temperatures, voltages or events, or control devices with simple hardware. Why spend $300 on an interface board when you can make just what you need for $20? Dickinson will present software and circuits, and demonstrate hardware.

Arrivals & Departures

Arrivals

Baohua Niu ..... Chemistry

Departures

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

Juanita Giesler ..... Adv. Tech.

Wanted: Artwork! For Upcoming BNL Art Festival

The BERA Art Society invites all BNL employees, guests, retirees and their family members over age 15 to submit fine artwork in all media for the 13th biennial fine art show, this year entitled "BNL Art Festival."

The show will be held in Berkner Hall, Rooms B and C, Monday through Thursday, December 6 to 9, from 11:30 a.m. to 1:30 p.m. daily, with a reception from 5 to 7:30 p.m. on Monday.

Pictures should be framed and ready to hang. More than one piece may be entered, though exhibitors may be asked to limit their contributions if space becomes a problem. The judgment of the BERA Art Committee on acceptable works is final.

For catalog purposes, a completed form for each work to be entered must be returned to Robert Chrien, Ext. 3903, Bldg. 510A, by November 22. For additional forms, stop by the BERA Sales Office in Berkner Hall or copy the one below. Deliver works to Berkner Hall on Friday, December 3, from 2 to 4 p.m., and pick them up there on December 9, from 2 to 4 p.m.

BNL Art Festival Entry Form

Name of Artist _____

Title of Artwork _____

Medium _____ BNL Contact _____

Ext. _____ Relation to BNL Employee _____

Return to Robert Chrien, Bldg. 510A, by November 22.

Stop Smoking for the . . .

AMERICAN CANCER SOCIETY®

GREAT AMERICAN smokeout®

This year's Great American Smokeout takes place on Thursday, November 18 — five months and four days since the Laboratory prohibited smoking in all of its vehicles and all buildings, except the smoking section of the Brookhaven Center Club and the Lab's residential units.

To encourage all who wish to quit smoking, a Fresh Start stop-smoking program will be sponsored by the Health Promotion Program of the Occupational Medicine Clinic. During four 1-hour sessions, participants will learn how to deal with smoking as a chemical addiction and a psychological dependency and how to manage stress and control weight — the two biggest problems for ex-smokers.

From 5:15 to 6:15 p.m. in Room D, Berkner Hall, Fresh Start will meet for four consecutive Tuesdays: November 16, 23 and 30, and December 7. The fee is $10 for new participants, but the program is free to those who have attended any previous BNL-sponsored stop-smoking program.

To register, return the bottom portion of the Fresh Start flyer recently mailed to all employees to Mary Wood, Bldg. 490, Ext. 5923. Make checks for $10 payable to the American Cancer Society.

PSI Meeting

LouEllen Louka, manager of Liberty Travel in Riverhead, will discuss economical weekend trips at the next meeting of the Upton Chapter of Professional Secretaries International (PSI), on Thursday, November 18, at 6 p.m., in the Student Union, Room 214, State University of New York at Stony Brook.

For more information call Susan Carlsen, Ext. 7647, or Sharon Jones, Ext. 2493.

Can You Translate?

People willing to act as interpreters and/or translators to assist with both personal and technical matters are needed to provide both verbal and written translations on a voluntary, as-available basis. Qualified individuals will have their names placed in a database and a published directory, which will be updated quarterly. If you are native or fluent in a foreign language and interested in being part of this registry, contact Steven Kemp, Ext. 7336.

Outreach: Psychology at Work

Achieving Your Goals at BNL

Do you still believe that you can make a significant contribution to your field — or have you become a non-believer?

Whatever your answer, come to the next Outreach workshop in the "Psychology at Work" series. To be presented by clinical psychologist Diana Richman, the workshop is entitled "How BNL Employees Can Achieve Career, Personal and Scientific Goals." Sponsored by the Employee Assistance Program (EAP) of the Occupational Medicine Clinic, it will take place on Tuesday, November 16, noon to 1 p.m. in Berkner Hall.

During her talk, Richman will discuss how to identify and eliminate self-defeating barriers to career achievement and offer techniques to prevent negative emotions from interfering with work.

Diana Richman, Ph.D., is senior supervisor at the Institute for Rational-Emotive Therapy, New York City, and Director of clinical supervision for the Queens branch of APPLE, Inc.

To register for this workshop, return the completed bottom portion of the Outreach flyer recently sent to all employees to EAP Staff Psychologist Dianne Polowczyk, Bldg. 490, by Monday, November 15.

Wine & Dine At Stony Brook

Most of Long Island's wineries, as well as such restaurants as Le Soir and Mirabelle, will be represented at the State University of New York (SUNY) at Stony Brook's Fourth Annual Autumn Evening's Wine & Food Tasting, on Thursday, November 18.

Hosted by the Campus/Community Committee Scholarship Fund to benefit high-achieving Stony Brook freshmen, the event will run from 5:30 to 8:30 p.m. in the University's Sports Complex. It will also feature a wine auction.

Admission is $40 prepaid or $50 at the door. Attendees must be at least 21 years old. For more information, call Michael McHale, 632-6873.

Service Awards

The following employees celebrated their BNL service anniversaries during the month of October:

45 Years

Lewis Friedman ..... Chemistry

35 Years

Walter R. Kane ..... Adv. Tech.
Walter M. Reams ..... App. Science
John H. Sondericker ..... RHIC
Brian C. Vogt ..... RHIC

30 Years

Frederick B. Heilemann ..... AGS
Jeffrey L. Knighton ..... Ph. & Gr. Arts
Bernard J. McAlary ..... Dir. Off.
Dieter Zantopp ..... RHIC

25 Years

George A. Hughes ..... SEP
David C. Rorer ..... Reactor
Booker T. Washington ..... Plant Eng.

20 Years

Arthur B. Harris ..... Reactor
Peter E. Haustein ..... Chemistry
Michael J. Murtagh ..... Physics
Joseph S. Wall ..... Biology

10 Years

Alice M. Costantini ..... Adv. Tech.
James C. Higgins III ..... Adv. Tech.
Helen R. Jones ..... Instrum.
Brent H. Nelson ..... Physics
Alfred W. Schlendorf ..... Plant Eng.
Trevor J. Sears ..... Chemistry

Volleyball

Standings as of November 3

Open League		League I	
GTEAM	10-2	Upfagrabs	9-3
Far Side	5-7	Rude Dogs	7-5
The Roofing Co.	5-7	Network News	5-4
Me and the Boys	5-4	Underdogs	4-8
Penetrating Vollies	2-7	Fornossing	2-7
League 2		**League 3**	
Nuts & Bolts	8-1	High Volley'em	7-2
Safe Sets	7-2	Silver Bullets	7-2
Net Wits	5-4	Jolly Vollies	6-3
Night Court	5-4	Take Five	5-4
Fossils	4-5	Slow Hands	2-7
Mon. Night Live	4-5	Upton Ups	0-9
Spiked Punch	3-6		
NTTP	0-9		

Bowling

Red/Green League

R. Mackinnon bowled a 247/228/646 scratch series, R. Mulderig 244/617, R. Larsen 238/213/612 scratch, E. Larsen 237/236/625 scratch, H. Arnesen 234, K. Asselta 222, H. Dawson 222, R. Raynis 214, W. Powell 201, A. Warkentien 200.

Purple League

George Munoz 213, Gil Spira 212, Ray Raynis 206/202, Ed Sperry IV 203, Manny Dador 201, Pat Moylan 192, Maryann Reynolds 184/179, Annamarie Spira 184, Denise Monteleone 173, Mary Addessi 171.

White League

Andy Warkentien bowled a 238/209, Bob Geib 224, Kevin Carney 222/201/203/626 scratch series, Pat Manzella 182, M.G. Meier 172, Fern Simes 178. Marilyn Picinich converted the 6/7/10 split.

Cafeteria Menu

Monday, November 15

Soup: Chicken noodle	.80/1.10
A la Carte: Chicken fajitas	3.45
Fitness: Pasta w/marinara sauce	3.20
Deli: Pastrami sandwich	2.95
Grill: Reuben platter	2.95
Fitness Salad: Pineapple boat	

Tuesday, November 16

Soup: Cream of mushroom	.80/1.10
A la Carte: Spaghetti w/meatballs	3.45
Fitness: Baked fish w/lemon & tomato	3.55
Deli: Roast beef sandwich au jus	2.95
Grill: Western omelet w/French fries	2.35
Fitness Salad: Chef's seafood	

Wednesday, November 17

Soup: Bavarian lentil	.80/1.10
A la Carte: Knockwurst & sauerkraut	3.55
Fitness: Tomato-broccoli casserole	3.25
Deli: Virginia ham sandwich	2.95
Grill: Italian cheesesteak w/fries	2.95
Fitness Salad: Fresh fruit	

Thursday, November 18

Soup: Cream of spinach	80/1.10
A la Carte: Italian steak pizziola	3.75
Fitness: Tarragon-lime chicken	3.50
Deli: Corned beef sandwich	2.95
Grill: Ham & broccoli cheese melt	2.75
Fitness Salad: Cantaloupe bowl	

Friday, November 19

Soup: New England clam chowder	.80/1.10
A la Carte: Cajun catfish	3.65
Fitness: Exhibition cooking of entree	
Deli: Roast turkey sandwich w/gravy	2.95
Grill: Fried shrimp boat	3.25
Fitness Salad: Chef's salad	

Deli, Burger and other specials daily

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.

SCIENTIFIC RECRUITMENT - Doctorate normally required. Candidates may apply directly to the department representative named.

SCIENTIST - Specialized in plant physiology, to join the Free-Air CO_2 Enrichment (FACE) Program in early 1994. The ability to build and operate novel equipment for field research is essential. Contact: George Hendrey, Department of Applied Science.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees.

DD 2833. SECRETARIAL POSITION - (term appointment) Requires an AAS or equivalent experience, excellent communication skills and a thorough knowledge of Laboratory policies and procedures. Experience with WordPerfect 5.1, a graphics package (preferably Harvard Graphics) and IPAP travel system also required. Will provide varied secretarial support for INSPO, including the coordination of all domestic travel, preparation of correspondence, maintenance of files, and the preparation of viewgraphs and graphics. Department of Advanced Technology.

DD 2834. SECRETARIAL POSITION - (term appointment) Requires an AAS or equivalent experience, excellent communication skills and a knowledge of Laboratory policies. WordPerfect 5.1 experience and a good understanding of office procedures also required. Will perform a variety of duties under the supervision of the Division Secretary, including report and correspondence preparation, appointments and travel arrangement, voucher processing, file organization and maintenance, and viewgraph preparation. Department of Advanced Technology.

DD 2835. CLERICAL POSITION - (term appointment) Requires relevant previous experience, knowledge of WordPerfect 5.1, excellent communication skills, and a good knowledge of Laboratory policies and procedures. Will provide clerical support to INSPO administrative staff as needed, including telephone coverage, filing and photocopying. Department of Advanced Technology.

MK 8186. FIREFIGHTER POSITION - (temporary position, ending by 7/24/94) Previous substantial firefighter experience is required. Completion of New York State EMT course and possession of training certificate is highly desirable; if not, completion of course within one year is required. Must be willing to work shifts at the completion of a 13-week training period. Safety & Environmental Protection Division.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside candidates.

LS 5532. PROGRAMMING POSITION - (term appointment) Requires a BS in computer science or equivalent; experience in C, FORTRAN and PVM; and an extensive knowledge of UNIX. Working knowledge of the Intel Paragon supercomputer, and PERL and WEB languages are highly desirable. Duties will include the installation and maintenance of public domain software packages and the maintenance of the Dynamic Network Queuing System on several BNL compute farms. Computing & Communications Division.

LS 3337. BIOLOGY ASSOCIATE POSITION - (term appointment) Requires a BS in biology or equivalent and a strong background in analytical chemistry and environmental microbiology, particularly under hypersaline conditions. Responsibilities will include investigating microbial degradation of volatile organics in hypersaline conditions and microbial gas generation under elevated pressures. Department of Applied Science.

NS 2964. EDUCATIONAL PROGRAM ADMINISTRATOR - Requires a bachelor's degree in science, science education or a related field, with advanced degree preferred; experience in precollege science, mathematics or technology education; and the ability to develop effective working relations with and between Laboratory staff and the education community. Experience with community colleges a plus. Also requires proven ability to plan, initiate and manage multi-element programs, drawing on a range of resources. Duties will include administration of coordinated precollege educational programs in science or related fields. This will involve providing educational activities and equipment for students, in partnership with Long Island school districts, and extending the Laboratory's teacher-enhancement programs, possibly to a regional or state level. Office of Educational Programs.

NS 2832. ADMINISTRATIVE POSITION - (term appointment) Requires a bachelor's degree, preferably in accounting, or the equivalent, and some related experience. Experience in a CSCS/C environment using a work breakdown structure, and development and analysis of budgets on a time-phase basis necessary. Proficiency in PC-project management and spreadsheet software applications with the ability to prepare Gant charts, macros, etc. required. Knowledge of DOE and other federal agency funding, cost and reporting and/or Laboratory budget and accounting systems knowledge a plus. Department of Advanced Technology.

Motor Vehicles & Supplies

92 CHEVROLET ASTRO VAN - V-6, 8-pass., all power, 28k mi., $12,000. Rich, 363-6845.

91 PONTIAC GRAND AM - LE sports pke., quad-4, metallic gray, warranty, 32k mi., $8,900. 471-3324.

89 MAZDA PICKUP 4x4 - ext. cab, 45k mi., red, 5-spd., am/fm cass., bed mat, new exhaust, asking $7,500. 924-7262.

89 SUBARU WAGON - GL 4wd, 5-spd., all power, ac, am/fm cass., full-size spare, shop manual, 90k mi., top cond., $6,300. Ext. 4747 or 765-1075.

89 VW CABRIOLET - convertible, ac, a/t, Blaupunkt, 58k mi., excel. cond., $11,500. 821-0686.

88 HONDA ACCORD LXI COUPE - a/t, ac, p/s, p/b, p/w, recent tires, brakes, 72k mi., v.g. cond., asking $6,500. Witkover, Ext. 4607.

88 LINCOLN TOWN CAR - Signature Series, loaded, white w/blue rag top, excel. cond., $9,000. Rosalie, Ext. 3160 or 289-5704 after 5 p.m.

88 JAYCO - 29', Swan designer series, ac, micro, full bath, queen-size, ridge, freezer, range, oven, pantry, $11,500. Dave, 286-1074.

85 NISSAN 300ZX - turbo, 66k mi., many new parts, fully loaded, $5,695; '85 Monte Carlo, loaded, many new parts, must see, $4,395. Doug. 732-5795.

85 MAZDA 626 LX - 5-spd., am/fm, sunroof, good cond., $2,000 neg. Bob, Ext. 7225 or 929-6748.

85 RENAULT ALLIANCE - new Benze radio, red, good cond., runs well, $1,200. 399-6367.

RAMPS - $5. Bill, 281-6498.

Sports, Hobbies & Pets

GUINEA FOWL - noted tick eradicators. John, Ext. 3675 or 924-3528.

PUPPIES - Golden Retriever, 6 wks., vet checked, AKC, shots, 1 male, 4 females, mother & father at home, $350. Tirre, Ext. 3288 or 281-0360.

Free

CHICKENS - John, Ext. 3675 or 924-3528.

DOG - Labrador, yellow, trained, beautiful, loyal, loves water, kids, pets, fetches, 2.5 yrs., spayed female, needs family, moving. Rick, Ext. 4149.

DOG - need a good home for Saudi, Lab/Dobie mix, affectionate and smart. Melvin, Ext. 3808.

FABRIC - and yarn leftovers, ideal for crafts. Judy, Ext. 2590.

FREEZER - small upright, looks terrible, works fine. Jackie, 467-6146.

RATS - cream and white babies for adoption as pets only, adorable, make better pets than hamsters. Diane, 744-4879.

Yard & Garage Sales

PORT JEFFERSON STATION - 11/13, 9-2 p.m., bikes, furn., collectibles, books, magazines, more, 33 Lebrun (Nostrand) off Boyle.

Lost & Found

HUB CAP - Chevy Caprice, found in front of Bldg. 134. Diane, Ext. 2347.

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 - room in lg. house, quiet area, full use of house incl. kit. and laundry, 10 min. to Lab, $350/mo., incl. util. Sidney, 286-4028.

FARMINGVILLE - new contemporary upstairs apt., skylights, deck, priv. ent., w/w, cable, single, $500/all. Nick, 732-7499.

MASTIC PARK - unusual upstairs apt., eik, oversize bdrm. & bath, study, heat, city water, carpeted, $600/mo. sec. ref. 281-7844 eves.

MEDFORD - very secluded small cottage, screened porch, fenced yard, gar., low maint., $650/mo. + sec. 475-4199.

MIDDLE ISLAND - furn. 2-bdrm. condo, 1.5 baths, all appl., 5 min. to Lab, clubhouse, $875/mo. 751-8351.

MILLER PLACE - 1-bdrm. apt., priv. ent., cable & cac incl., $600/mo. + 1 mo. sec. Ext. 7064.

MORICHES - lux. 2-bdrm. condo, 2 full baths, den, cac, fp, deck, clubhouse, pool, tennis, marina, 24-hr. gated sec., $1,200 mo., 18-mo. lease or buy for $145,000. 878-2960.

PORT JEFFERSON - lg. furn. rm., share bath w/1 person, nonsmoker, quiet Harbor Hills area, 20 min. to Lab, $100/wk. Arnold, 473-6432.

PORT JEFFERSON STATION - lg. 3-bdrm. ranch, l/r, d/r, den, eik, 2 baths, w/w, w/d, dbl. gar., 3VSD, $1,200/mo. Jim, Ext. 4368 or 928-3371 eves.

RIDGE - furn. studio apt., kit., bath, fenced yard, pvt. ent., 3 mi. from Lab, $465/mo. Ext. 2673 or 744-8632.

ROCKY POINT - 1-bdrm. co-op, new appl., d/w, ac, priv. patio, heat incl., $650. Sheryl, Ext. 7716 or 929-8741.

ROCKY POINT - 1-bdrm., eik, lg. l/r, fp, lg. yd., quiet street. Terry, Ext. 4753.

SELDEN - new 1-bdrm., eik, l/r, cable, parking, ideal single, nonsmoker, no pets, $600/all. 696-1927.

SHOREHAM - new, partially furn. 1-rm. apt., full bath, kit., priv. ent., immed. occup. 821-4318.

SOUND BEACH - 1-bdrm., l/r, eik, full bath, cable, priv. ent./parking, furn., single nonsmoker preferred, no pets, $500/mo. incl. all. Ext. 7918 or 744-7007.

SOUND BEACH - 3-bdrm. ranch, rec. rm. downstairs, MPSD, ½ mi. to beach, 2-car gar., fenced, treed, landscaped on ⅓ corner acre, immed. occup., $1,100/mo. Don/Mara, 765-5405.

WADING RIVER - cozy, 3-rm. apt. w/eik & bath, single nonsmoker preferred, no pets, avail. 1/1 or possibly sooner, $500/incl. all. Janet, Ext. 2345 or 929-3910.

WADING RIVER - waterfront apt., furn., newly renovated, l/r w/fp, eik, bdrm., full bath, deck, priv. beach, single, no pets, $675/mo. 929-4113.

HILTON HEAD, SC - 2-bdrm. condo, sleeps 6, furn., 2 baths, tennis, beach, golf nearby, Oct.-Dec., $350/wk. Guy, Ext. 3147 or 689-5378.

DISNEY, FL - 2-bdrm. condo, sleeps 6, w/d, d/w, pool, tennis, lake, cable, $499/week. 582-6241.

KEY WEST, FL - 4/9-23, condo, sleeps 2-6, on water, kit., pool,. priv, beach, gym, marina, boat rentals, hot tub, w/d, tiki bar, walk to town. Sheryl, Ext. 7716 or 929-8741.

For Sale

AQUEBOGUE - 3-bdrm., fd/r w/hardwood floors, l/r w/fp, eik w/ceramic tile, Jacuzzi, bath, skylights, cathedral ceilings, ¾ acre, full bsmt. w/8' ceilings, $159,000. Sharon, Ext. 5919 or 722-3010.

AQUEBOGUE - 4-bdrm., 3 baths, l/r, stone fp, d/r, country kit., 2-car gar., full bsmt., 1 acre, landscaped, nice development, ask. $190,000. Barbara or Mike, 722-5340.

BLUE POINT - 1.4 acre, renovated farmhouse, solar, organic irrigated garden, fruit, nut trees, office plus reception, $192,000. 363-7032.

BROOKHAVEN HAMLET - 3-bdrm. ranch, 2 baths, d/r, eik, l/r w/fp, laundry rm. off kit., wood stove in bsmt., sec. system, ¾ acre on cul-de-sac., low $200s. 286-1290.

CALVERTON - 2-bdrm. townhouse, 5 appl., carpeted cac, fp, patio, upper deck. Ext. 3558.

CENTRAL ISLIP - 2-bdrm., 1 bath, redone kit., cathedral ceiling in l/r, 2 skylights, d/r, new carpet, sep. gas heat & hot water, $2,500 down, assume mortgage. 582-6241.

EAST NORTHPORT - mother/daughter, 13-rm. high ranch w/income-producing 2-bdrm. apt., 2-car gar., igp, ½ acre, ask. $249,900. Joe, Ext. 7271.

HAUPPAUGE - 4 bdrm., igp, 2½ baths, eik, den w/fp, l/r, d/r, ½ acre, Florida rm., att. gar., igs, bsmt., 5-min. LIE, $210,000. Karl, Ext. 5505 or 366-0119.

HOLTSVILLE - 2-bdrm. ranch, fp, l/r, d/r, lg, kit., partial bsmt., w/d, fenced backyard, taxes under $1,800, Sachem schools, $92,000 neg. 289-1732 eves. & wknds.

MANOR PARK - 3-bdrm. house, fp, d/r, 80'x100' fenced property, owner will hold partial mortgage or rent w/option. 582-6241.

MANORVILLE - 2¼ wooded acres w/pond, $45,000. 345-3490 after 6 p.m.

MEDFORD - 3-bdrm. center hall Col., 1½ baths, eik, den, l/r, d/r, gar., 0.4 acre, fenced, $119,000. 286-1571.

MEDFORD - Blue Ridge Condo, 5 rms., 1½ baths, cac, golf, tennis, billiard, in/out pools, whirlpool, sauna, clubhouse, restaurant, $89,900. 736-8742.

MIDDLE ISLAND - 1-bdrm. condo, upper unit, Artist Lake, maint. fee incl. gas heat/cooking, 5 app. Liz, 924-0138 after 5:30 p.m.

MIDDLE ISLAND - 6-yr.-old condo, 2-bdrm., 1.5 baths, cac, gas heat, all appl., pool, tennis, clubhouse, 5 min. to Lab, $79,900. 751-8351.

MT. SINAI - 2-bdrm. ranch, ¾ + acre, full bath, l/r, eik, bsmt., detached oversized gar. w/electric, ac, new boiler, city water, $110,000. Arnold, 473-6432.

NORTH SHIRLEY - custom-built, 9-rm. Colonial, 1-car gar., fp, fenced on ½ acre, 5 min. to Lab, $128,000. 924-0960.

ROCKY POINT - 4-bdrm. Colonial, 2½ baths, gas heat, cac, l/r, d/r, eik, den, fin. bsmt., gar., ask. $124,990. Don, Ext. 7237 or 744-2921 after 5:30 p.m.

RIDGE - 3-bdrm. townhouse, 1.5 baths, cac, w/w, all appl., new w/d, hot water heater, attic, patio, storage, move-in cond., red. $68,000. Mary, 924-4328.

STRONG'S NECK - custom 4-bdrm. ranch, ⅔ acres, d/r, l/r, updated eik, 2 fps, wood floors, 2-car gar., bsmt. rm., brick patio, deeded mooring, water view, alarm, $315,000. Ext. 3616 or 941-9034.

SHIRLEY - 3-4 bdrm. Cape, lg. yard, gas heat, wood stove, solar hot water, agp, $98,000. 281-5060.

S. SETAUKET - lg. 4-bdrm. Eaton Col, fl/r, fd/r, fam. rm., eik, 2½ baths, $164,000. Ext. 2344 or 751-4254.

WADING RIVER - 2 bdrm., 2 baths, 106'x100', fenced, priv. gar. w/loft, cedar shakes, some furnishing incl., near Wildwood State Park, $100,000 neg. 929-4969.

WADING RIVER - 3-bdrm. Col., 2½ baths, 2-car gar., custom kit., Jennair, gazebo, shed, igs, igp, deck, steam bath, satellite dish, SWRSD, 1.1 acre, $239,000. 929-8323.

YAPHANK - two ¾-acre bldg. lots, level, wooded, all permits, $59,000 ea. 924-6019.

BOVINA, NY - 15½ acres and cabin, excel. hunting and skiing, ask. $36,000. 368-6115 after 6 p.m.

NORTH PORT, FL - lot, 20 mi. S of Sarasota, water, elec., ready to build, $8,000. 924-0960.

PORT CHARLOTTE, FL - ¼-acre bldg. lot, $10,900. 929-8323.

ST. MAARTEN - timeshare, beachfront efficiency for four in Pelican Flamingo Resort, week 14, 96-yr. lease. Paul, 878-1486.

Wanted

BABY-SITTER - German-speaking. Stas, Ext. 7849 or 821-0459.

BUNK BEDS - reas., in good cond. George, Ext. 2597.

CHILD-CARE - needed in my home for 2 boys, 8 and 5 yrs., before and after school and when ill, pt/ft. Missy, 395-5748.

FAMILY TO SHARE - condo/ski package expenses in VT/NH, approx. 12/25/93-1/1/94. Stanislav, Ext. 7849 or 821-0459.

GENERATOR - 2500+ watt, good working cond. 582-6241.

JUNK CARS - trucks, machinery, alum. boats, will remove. Rich, Ext. 4986 or 589-9103.

MONITOR - color for IBM, CGA adapter. Stephen, Ext. 4477 or 924-5510.

PIANO - good cond., full upright preferred. Bill, Ext. 2095.

RABBIT HUTCH - for celibate rabbit, must be suitable for outside use, prefer free. George, Ext. 2597.

TOYS - Little Tykes, house, big slide, coupe, see-saw, kitchen, etc. Rich, Ext. 4149.

In Appreciation

Thank you to everyone who lent a helping hand when my baby was in trouble. To the Fire/Rescue Group, "Hey, where's my Kleenex?" — Johanna Reddy

The Brookhaven Bulletin is printed on paper containing at least 50 percent recycled materials, with 10 percent post-consumer waste.

Ads left out of this issue due to lack of space need not be resubmitted to appear in the next issue.