BROOKHAVEN BULLETIN

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BROOKHAVEN NATIONAL LABORATORY

For BNL: Two Years, Two DOE Small Business Awards

Whenever possible, buyers from the Contracts and Procurement Division place orders with small, minority owned and operated companies that produce high-quality products. For continuing to emphasize the importance of having small and disadvantaged businesses participate in the Laboratory's mission, BNL has again earned the Department of Energy's (DOE) Small Business Award. Brookhaven is one of two laboratories within DOE's Chicago Operations Office area to receive this award for the past two consecutive years.

With one quarter of 1989 past, BNL is well on its way to a third award: While the Lab's goal is to have 5 percent of its contracts awarded to small and disadvantaged businesses, the rate so far this year is 5.1 percent. The latest such contract was let on March 17 to J.G. Salas & Sons, Inc. The New Jersey firm was awarded $248,460 for installation of electrical equipment in the Booster workstation.

Hilary Rauch (fourth from left), Manager of DOE's Chicago Operations Office presented DOE's Small Business Award to BNL Director Nicholas Samios on Wednesday, March 29. Also present were: (from left) Timothy Drawbridge, Contracts Specialist, DOE's Brookhaven Area Office; Jerry Bellows, Brookhaven Area Office Manager; Robert Hughes, President of Associated Universities, Inc.; John King, Manager, BNL's Division of Contracts and Procurement (DCP); Mary-Faith Healey, Assistant Manager, DCP; and E. Parke Rohrer, Associate Director for Management and Physical Plant.

— Photos on this page by Roger Stoutenburgh.

Touring the Laboratory

NYS Senator Stops by PETT VI

Midway through his March 23 visit to BNL, New York State Senator Kenneth LaValle (left, above) (R,C-Suffolk County's first district) toured the PET facility in Bldg. 906.

LaValle's tour had begun with an overview of the Laboratory by BNL Director Nicholas Samios and a discussion of the Lab's environmental programs with Robert Casey, Head of the Safety & Environmental Division. The Senator's visit concluded with a look at the National Synchrotron Light Source and a tour of the Danish House.

Joining LaValle at the PET facility were (from left) BNL Senior Chemist Joanna Fowler; BNL Associate Scientist Nora Volkow, who is also affiliated with University Hospital at the State University of New York at Stony Brook; and BNL Senior Chemist Alfred Wolf, who heads BNL's cyclotron-PET program.

PET stands for positron emission tomography, a technique that can reveal functional information about human organs that is simply unobtainable by any other method.

At present, Brookhaven has two PET machines: an instrument that can image the whole-body and the PETT VI, shown here, which is used in brain studies on schizophrenia and Alzheimer's disease, and research on alcohol and cocaine abuse.

As a subject lies on the table, his or her head is positioned inside the ring of the PETT VI scanner, as the medical phantom is here. A colorful image mapping the rates of glucose metabolism in the brain is produced as the scanner detects the radioactive emissions from short-lived radiotracers with which the subject was injected.

Conference Attendees Visit Combustion Equipment Test Facility

More than 200 fuel-oil marketers, equipment manufacturers and researchers from the U.S. and Europe attended the two-day Oil Heat Technology Conference and Workshop held at BNL earlier this week.

The meeting, which focused on research and development of advanced oil-heating systems, featured four workshops and 12 individual presentations, ranging from "Oil-Fired Heating Technology for the Arctic," by Robin Sinha of the Canada Mortgage and Housing Corporation, to BNL Project Engineer Thomas Butcher's talks on "Advanced Control Strategies" and "Emission Characteristics of Modern Oil Heat Equipment Combustion Facility Test Results."

Participants were able to tour the Combustion Equipment Test Facility of which Butcher spoke, following the first day's discussions on March 27. The computerized facilty, run by the Department of Applied Science (DAS) in Bldg. 526, has been set up to measure the efficiency and emissions of advanced equipment, with an eye toward developing systems of even higher efficiency.

Overseeing the test facility is Roger McDonald (left, below), program manager in DAS's Architectural and Building Systems Division. Here, he explains some of BNL's research activities to: (from left) Ted Kapus, Manager of the U.S. Department of Energy's (DOE) Building Equipment Division, Office of Building and Community Systems; Robert Lynch, of the Empire State Petroleum Association; James Pierson, of the J.W. Pierson Company; and Dick Cahoon, Vice President-Policy, with the Petroleum Marketers Association of America (PMAA). Cosponsored by DOE, BNL and PMAA, the meeting was coordinated by McDonald and Sharon Zuhoski, DAS.

Advise and Recommend

The Brookhaven Council was established to advise the Laboratory Director on BNL policies affecting the scientific staff, and about staff appointments and tenure recommendations. In addition, the Council attends to others matters brought to its attention, either by the Lab Director or through one of its members.

The Council's 16 members are elected from the tenured scientific staff for staggered terms of three years.

Pictured at left, at the first meeting of the 1989-90 term, held on the second Monday in March, are: (standing, from left) Hugh Isaacs, representing the Department of Applied Science (DAS) and the Computing & Communications Division (CCD); Charles Goldstein, DAS/CCD; Brookhaven Council Chairman Thomas Koetzle, Chemistry Department; Wolfgang Wulff, Department of Nuclear Energy (DNE) and Reactor Division; Morris Reich, DNE/Reactor; (seated, from left) Walter Mangel, Biology Department; William Studier, Biology; Krsto Prelec, Alternating Gradient Synchrotron Department (AGS), Accelerator Development Department (ADD) and Safety & Environmental Protection Division (S&EP); Laurence Littenberg, Physics Department and Instrumentation Division; and Brookhaven Council Secretary Stephen Schwartz, DAS/CCD.

Absent from the picture were: Gerry Bunce, AGS/ADD/S&EP; Jerome Hastings, National Synchrotron Light Source Department; Richard Holroyd, Chemistry; Darrel Joel, Medical Department; Kelvin Lynn, Physics/Instrumentation; and John Millener, Physics/Instrumentation.

The Directory — From A-Z

What was red in 1987, yellow in 1988 and purple in 1989 — and well read every year? BNL's telephone directory.

Beginning last August, as every year, this year's edition was compiled by Telephone Services Supervisor Nicholas Pisco, with help from the Management Information Systems (MIS) Division. MIS provided the printout of the directory's white pages — which begin with the name Abendroth, Hans F, and end with Zukowski, Elaine D (see profiles below).

The yellow pages were typeset by the Composition Group, Photography & Graphic Arts (P&GA), and P&GA's Graphic Design Group executed the book's layout. The directory's cover is an eye-catching color, as a result of a suggestion by Anne Baittinger, Public Affairs.

After being printed off site, the directory was distributed to all employees in February, and its addendum is due out soon. To update your listing, use the form in the back of the book.

Roger Stoutenburgh

Hans Abendroth

First on the List

"As I typically remember my phone number, I never noticed that I was first," says Hans Abendroth with a laugh. Abendroth, Technical Supervisor in charge of the Operations Group at the Tandem Van de Graaff is the first BNL employee in the alphabetical listing of the Lab's 1989 telephone directory.

Though the Lab has been his first and only employer since he graduated from West Islip High School and a BOCES technical electronics program almost 22 years ago, Abendroth only ascended to first place in the phone book last year. "Last time I looked, which was several years ago, I was third or fourth," he recalls.

In August 1967, Abendroth began his BNL career as a technician in the Bubble Chamber Group in the Physics Department, upgrading, repairing and maintaining the electronics for the 30- and 31-inch bubble chambers.

In 1968, Abendroth made his first appearance in the phone book — in seventh place, his name's all-time nadir. Then, in 1971, Abendroth moved from the Physics Bldg. 510D to the Tandem, Bldg. 901A. As part of the Tandem's Operations Group, he has since then been involved with keeping the twin accelerators operating and properly maintained, repaired and upgraded.

In the early 70's, Abendroth returned to school to supplement his electronics education: He studied math and computer science at Suffolk County Community College, under the Lab's tuition-reimbursement program. Utilizing his computer education, Abendroth has written setup and diagnostic programs for the Tandem's operation.

Beginning with the 1972 phone book, in which his name was third, Abendroth has continued listing the Tandem as his address and 4584 and 4581 as his extensions.

Though the name, address and extension have remained the same, Abendroth's job title has changed: He was promoted to Technical Specialist in 1974, to Senior Technical Specialist in 1979, and to his present position in 1986.

His position in the phone book has changed as well: After a short stint, 1973-75, in second place, Abendroth's name began a gradual descent: dropping to third, 1976-77, fourth 1978 and fifth in 1979. Then, it ascended slowly: from fourth in 1980-81, to third 1982-85, to second 1986-87 and finally to its zenith — first in 1988.

About the privileges of being first in an alphabetic listing, Abendroth remembers, "As a schoolboy, I usually had the first seat in the class and was the first to be volunteered by the teacher to get up in front of the class to do what no one in the class had done before — not that I knew what I was doing better than anyone else, but just because my name was first on the list."

Roger Stoutenburgh

Elaine Zukowski

Last, Not Least

She answers her phone "High Energy Physics," but her name is Elaine Zukowski. She is a senior executive secretary in the Director's Office — and hers is the last name in the BNL telephone directory for 1989.

Though employed at the Lab for almost 12 years, Zukowski has claimed last place only for the past six: From her first year in the BNL phone book, 1978, until 1983, when she reassumed her original last name, she was "lost in the middle of phone book with all the rest."

In November 1977, when her son entered first grade, Zukowski started at the Lab, temporary, part-time in the secretarial pool. "My mother — Dorothy Zukowski who retired in 1980 as manager of the Banker's Trust Company branch that used to be on site — had told me, 'Go to work at the Lab — it's the best place to work,' so I did," recounts Zukowski.

In May 1978, she was hired permanently in the Director's Office, Bldg. 460, as the part-time secretary for an administrative assistant to then Associate Director for Life Sciences Victor Bond. Zukowski changed jobs and extensions in November 1979, becoming a full-time employee: Secretary, first to Gerald Kinne, then to Leonard Emma, as Assistants to Associate Director Bond. In 1980, she was promoted to Senior Secretary, which was followed by a move up to Executive Secretary in 1981.

In 1984, her name change was noted, so she made her first appearance as the last person in the BNL phone book. That October, she was both named to her present title and moved with the rest of BNL's security detail to Bldg. 50. That change and her new number, Ext. 4271, were noted in the 1985 directory.

In 1987, Zukowski decided to make a career change. "Security is intriguing, but it is its own little world apart from the science of the Laboratory," she explains. "I wanted to get into the mainstream of Laboratory life and do work concerned with BNL's main function: its scientific research."

So, in March 1988, Zukowski took over the job as assistant to Neil Baggett, Assistant to the Associate Director for High Energy & Nuclear Physics, Laurence Trueman. And in this year's phone book, she is found at Ext. 3866 or 3830, in Bldg. 510F.

Zukowski knows that this is her last year as the last person in the BNL phone book. In 1990, she will assume, at best, the penultimate position, second to another Zukowski — the former Kathleen Walker, Elaine's sister-in-law since July 1988.

Kathleen, BNL's Security Training Instructor, and Elaine's brother Roy had met through Elaine when she worked in security. Explains Elaine, "Kathy wanted some home improvements done, which Roy does on the side, so I gave her his card."

Adds Elaine Zukowski, "Kathy should have been last in the BNL directory this year, but she was listed under the last name Walker Zukowski by mistake. She has vowed to get her name change straightened out for next year's book — so I'm glad the last person was interviewed now."

— Marsha Belford

Umbrella Collapse Shocks Mesonne; Prompts New Solar Neutrino Detector

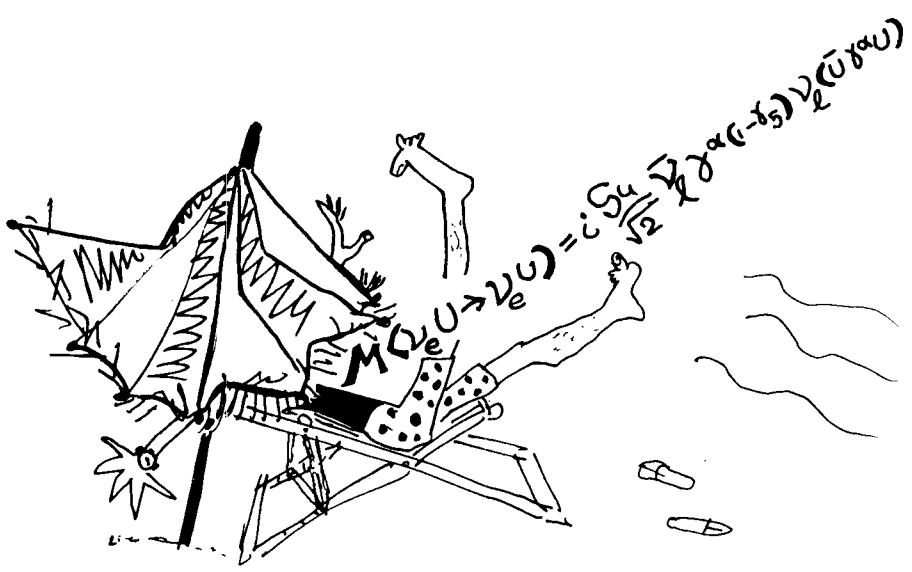
Professor Jay-Sigh Mesonne, a frequent visitor to Brookhaven, has announced the discovery of a new kind of solar neutrino detector. An international collaboration is being formed to exploit this advance.

The discovery depends on the push that solar neutrinos produce on striking a surface. Mesonne made his discovery when his beach umbrella collapsed on him at the time of the supernova explosion in 1987. He was not seriously injured, but was impressed all the same. He summarized this fortunate event with the apt remark, "Beats a rotten apple anytime."

The actual device will consist of large, very lightweight beach umbrellas together with tension devices that will transmit the beach-umbrella momentum (BUM), which will be downward in the day and upward in the night, following the direction of the sun.

The problem attracted Mesonne because of the stellar character of the solar neutrino question. "The Standard Solar Muddle is well based and unquestionable, although wrong," he explained. "I believe that string theory might straighten out this knotty question, but first we need measurements."

Mesonne brings very strong credentials to the task. For the past decade he has been specializing in the measurement of extremely rare decays of mesons; to date, he has successfully eliminated all signals and is the first person to have observed no events at all. He hopes to bring this background to the neutrino work.



Prompt-shock reaction of Professor Jay-Sigh Mesonne on the arrival of neutrinos from supernova Shelton-1987A.

"With neutrinos, background is everything, but I intend to make nothing of it," he promised.

The collaboration will be a European-U.S. effort. The Europeans will supply the equipment, the beaches and the operating budget, while the U.S. will fund the source. Mesonne's own group will be in charge of the physical observations. The precise measurement method is still under consideration.

Mesonne summed up the situation: "It is a delicate and sensitive determination, given the background problem. However, I believe that, by coupling the umbrellas to a wet-sand transducer, we can, with good discrimination, detect the rapid-rise acoustic phonons (RAP) so as to register each BUM in real time. While many of my experiments have had implicit BUM RAPs, I think this is the first time a project is solidly based on them."

Reactions from the scientific community have included the unambiguous evaluation that this will be a pioneering approach going far towards filling a much-needed gap.

April Fool from Liz Seubert and Joseph Wenesr.

Film badges will be changed tomorrow. Please place your badge in its assigned rack space before leaving work today.

Inside Info

Eric B. Forsyth, Chairman of the Accelerator Development Department, has been elected a Fellow of the Institute of Electrical and Electronics Engineers (IEEE). This honor is given each year to a limited number of individuals who have shown evidence of extraordinary qualification and achievement in the field of electrical, electronics or computer engineering. Forsyth has achieved this distinction "for contributions to the development and operation of superconducting power transmission lines." He headed BNL's Power Transmission Project since 1972.

As a newly elected Fellow, Forsyth will be recognized and honored at a ceremony hosted by the Long Island Section of IEEE at the Imperial Manor, Bethpage, on April 16.

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Kelvin G. Lynn, Senior Physicist in the Physics Department, has been elected a Fellow of the American Physical Society (APS). The citation on his Certificate of Fellowship reads: "For developing variable energy positron beams for studying solid surfaces and interfaces."

Only those APS members who have contributed to the advancement of physics by independent, original research, or who have rendered some other special service to the cause of the sciences are elected to the status of Fellowship each year.

Soccer Club

Pickup soccer games are now being held on Mondays at the BERA field after 5 p.m., and on Wednesdays and Fridays at noon. For more information, call Enrique Abola, Ext. 4383.

Arrivals & Departures

Arrivals

William G. Bockelmann .... Plant Eng.
Andrei G. Lebed ..... Physics
Timothy P. Powers ..... Reactor

Departures

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

Elaine V. Buckshaw ..... Biology
Murry Meller ..... MIS
Hong Wang ..... Biology

Golf Tournament

The first BGA golf tournament of 1989 will be held on Thursday, April 13, at the Heatherwood Golf Club. Tee-off will be between 10:30 a.m. and 12:30 p.m., depending on sign-up. Tee-times can be obtained by calling John Nagy, Ext. 2667. The deadline for signing up is April 7.

The tournament net scoring will be based on the "Callaway method" of handicapping. This allows those who wish to participate without established handicaps to compete on an equal basis. Greens fees, to be collected by the starter, will be $14, plus a $1 entry fee. Electric carts will be available for $18 per cart; pull-carts for $2 each. In the event of rain, please direct any questions to the Pro Shop at 473-9000.

Reminder: Don't forget to send in your BGA membership application!

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Quartet to Bring New World String Music to Berkner

New World String Quartet

With a brilliantly focused sound and a mature unanimity of interpretation, the New World String Quartet has developed into one of America's finest ensembles. Next week, BNL concertgoers can hear for themselves why the critics have been writing glowing reviews of this young group. The New World String Quartet will perform at Berkner Hall on Thursday, April 6, at 8:30 p.m.

The New World was formed in 1977 and only two years later won the coveted Naumberg Chamber Music Award. The group enjoys an enviable popularity all over the United States and has performed in virtually every major city in the country. In 1985, the quartet was named Quartet-in-Residence at Harvard University, the first such appointment in the school's 350-year history. The New World was also one of two ensembles invited to perform at Harvard's 350th anniversary celebration, the other being the Boston Pops.

The ensemble's repertoire includes all the standard quartet literature, as well as many major 20th century works and new commissions.

On the program April 6 are three pieces: Wolfgang Amadeus Mozart's Quartet in B Flat Major, K. 589; Henri Dutilleux's Ainsi La Nuit, composed in 1976; and Johannes Brahms's Quartet in C Minor, Op. 51, No. 1.

Tickets for the concert may be purchased at the door the night of the performance. They are $9 for general admission, $6 for students and those over 65, and $5 for those under 18.

Mountain Club

The Mountain Club is planning several spring events. We will warm up, weather permitting, with a canoe trip on the Peconic River on Saturday, April 8. Call Nancy Kuehner, 281-4673, for more information, or meet Monday, April 3, at noon, in the Berkner Hall lobby, to plan other canoe and camping junkets.

Hospitality News

Homemaker or career woman? Hospitality Committee Chair Milica Stevanovic invites you to attend the group's next get-together to discuss your chosen path and what influenced you either to pursue a career or to be a homemaker. We think it will be an interesting topic for discussion and hope you will join us on Tuesday, April 4, at 9:30 a.m., in the Brookhaven Center. Spouses of Laboratory employees and guests are welcome. Coffee, tea and danish will be served. Please come and bring the children. Babysitting will be provided free of charge.

Cafeteria Menu

Week of April 3

Luncheons

Monday, April 3		
Soup: Turkey rice	(cup)	.75
	(bowl)	.95
Ground beef stroganoff over noodles		3.10
Chicken Madeline w/veg.		3.10
Top-your-own baked potato		1.25
Lite-line: Salad plate		2.25
Hot deli: Ham & cheese croissant		2.85
Tuesday, April 4		
Soup: Beef barley	(cup)	.75
	(bowl)	.95
Orange chicken w/veg.		3.10
Pizza w/toppings	(slice)	1.25
Lite-line: Broiled chicken w/veg.		3.00
Hot deli: Roast beef		2.85
Wednesday, April 5		
Soup: Minestrone	(cup)	.75
	(bowl)	.95
London broil teriyaki w/veg.		3.10
Turkey tetrazzini w/veg.		3.10
Lite-line: London broil au jus w/veg.		3.10
Hot deli: Pastrami		2.85
Thursday, April 6		
Soup: Cream of chicken	(cup)	.75
	(bowl)	.95
Spaghetti w/meat sauce & garlic bread — all-you-can-eat; no takeouts		3.25
Breaded pork chop w/veg.		3.10
Lite-line: Broiled pork chop w/veg.		3.00
Hot deli: Turkey		2.85
Friday, April 7		
Soup: French onion	(cup)	.75
	(bowl)	.95
Sweet & sour fish w/veg.		3.10
Sausage & peppers over rice		3.10
Lite-line: Broiled whitefish w/veg.		3.00
Hot deli: Corned beef		2.85

Breakfast specials

Monday:	Two eggs w/bacon & toast	1.20
Tuesday:	Sausage & egg on roll	1.50
Wednesday:	Pancakes & sausage patty	1.10
Thursday:	Western omelet & toast	1.45
Friday:	French toast & bacon	1.00

Aerobic Dance

With spring in the air, perhaps exercise is on your mind. If so, why not join the Aerobic Dance Club's next session of aerobic dance classes?

Instructor Pat Campbell will lead the classes on Tuesdays and Thursdays, for ten weeks, beginning April 4 and 6. All classes run from 5:15 p.m. to 6:15 p.m.

The fee for each ten-week session, (Tuesday or Thursday) is $30. It is payable at registration, which will precede the first classes and be held on the third floor of the Collider Center, Bldg. 1005S.

For more information, call Bill Leonhardt, Ext. 2378; Elinor Norton, Ext. 3455; or Janet Sillas, Ext. 2345.

Bowling

High scores for two weeks are as follows:

White League

Mary Addessi 182/181, Marilyn Picinich 186, Lynne Warkentien 186, Sharon Smith 187/185, Pat Manzella 188/183, Mary Scheidet 192, Joyce Pinelli 198, Marge Stoeckel 200, Kay Conkling 200, Ed Sperry IV 204, Joe Ferrante 212.

Purple League

Marsha Kipperman 198, Clem Auguste 201, Rob Simes 203, Paul Calligari 206, Dick Adams 243/224.

Red/Green League

R. Mulderig had a 221/203, D. Jesaitis 214/207/610 scratch, H. Arnesen 205, J. Ferrante 205, N. Carter 204, C. Bohnenblusch 203, J. Morris 201.

L.I. Industrial Tournament

R. Mulderig was the winner of the Most Valuable Player Award with 2513 pins and a 209 average. High games were R. Mulderig 224/203/ 202/649 scratch, K. Riker 223/207/618 scratch, C. Bohnenblusch 205. The team finished eighth.

Scotch Doubles Tournament

The Scotch Doubles Tournament will be held on Sunday, April 2, at 1:30 p.m., at the Port Jeff Bowl. The cost of $24 per couple includes bowling, food and prizes. Each team consists of two people, one male and one female, and at least one team member must be a BNL employee. Members of bowlers' families may also participate. Applications are available at the BERA Sales Office. If you need a partner or have any questions, contact Donna Cunningham, Ext. 4599, or Maria Apelskog, Ext. 7665.

Volleyball

Standings — Week of March 20

League I		League II	
Upfagrabs	48-9	Fossils	45-12
Dinkers	39-18	Set Ups	44-13
Xrayted	34-23	Krush	40-17
Cannonballs	30-27	Nuts & Bolts	35-22
Phoubars	15-42	Ziegfield Vollies	22-35
Netminders	5-52	Slammers	18-39
		Chunga's Revenge	13-44
		Upton-Ups	13-44
League III		**Open League**	
Frazzled	57-6	**1st round playoffs**	
MISfits	40-23		
High Volley'em	35-28	Tom's Mutants vs. Magnum 2 - 0	
Printouts	35-28		
Sourcerers	33-30	Phoenix vs. Meriem's Team	
Spikes	21-42	2 - 1	
Good Timers	16-47		
Renegades	15-48		

Service Awards

The following employees received service awards during the month of March 1989:

Thirty-Five Years

James B. Cumming ..... Chemistry
Thomas Holmquist ..... Reactor

Thirty Years

Carl L. Goodzeit ..... Accel. Dev.
Richard R. Lorenz ..... Physics
Nicholas P. Samios ..... Director's Off.
Robert W. Young ..... Saf. & Env. Prot.

Twenty-Five Years

Edgar A. Cote ..... App. Science
Pierre Stillman ..... AGS
Ignatius N. Tang ..... App. Science
Nelson E. Tyler ..... Plant Eng.
John C. Walker ..... AGS
Wen-Shi Yu ..... Nuc. Energy

Ten Years

Charles B. Bloxon ..... AGS
Kathleen M. Brown ..... AGS
Anne M. Corr ..... Fiscal
Sebastian A. Dimaiuta ..... Accel. Dev.
Denis Donahue ..... AGS
Kathleen P. Hauser ..... Nuc. Energy
Michael D. Kelly ..... NSLS
Roy J. McWilliams ..... Plant Eng.
Jose A. Mendez ..... Plant Eng.
Kim M. Mohanty ..... Physics
Philippe A. Ouvrard ..... Plant Eng.
Peter E. Popken ..... AGS
Robert Scheuerer ..... NSLS
Jeffrey W. Taylor ..... Personnel
Ronald Wagner ..... Plant Eng.
Edward G. Weigand ..... Accel. Dev.
Lawrence M. Welcome ..... Accel. Dev.
Gwyn P. Williams ..... NSLS
Ralph D. Wilson ..... Saf. & Env. Prot.

Spring Forward

Daylight Saving Time begins

Sunday, April 2, at 2 a.m.

team safety

More double and triple winners are coming up each week in the Team Safety program. Plant Engineering posted five triple winners this week: teams from the Rigging Crew, Paint Shop, Cabinet Shop, Water and Sewage Shop, and the Alarm Shop. Central Shops posted another triple play with the Department Staff Shop Team. Supply and Materiel came through with the Outlying Stores Team. Wow, what a week!

Again, there was one error on the field. The Custodial A Team had a back injury, which resulted in several days lost time. All other teams are continuing with their no-lost-time-accident records. A big rumor from the locker room is that there may be more teams coming into the league soon. The commissioner is currently negotiating with several upstart teams to join the ranks. Stay tuned for details.

Keep up the safe work!

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 and/or appropriate bargaining unit, 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.

LABORATORY RECRUITMENT - Opportunities for Laboratory employees only.

4006. ADMINISTRATIVE POSITION - Requires BA or BS in accounting or business administration or equivalent work experience, and excellent written and oral communication skills. Knowledge of Laboratory policies and procedures essential. Familiarity with MIS inquiry systems, in particular the accounting and budget system, is highly desirable. Will assist senior-level administration personnel in supporting diversified needs of the AGS Department. Must be able to work under minimum supervision. Accelerator Development Department.

4007. PLANT ENGINEERING SPECIALISTS (2) -Under minimum supervision, performs a variety of skilled technical functions associated with the fabrication, maintenance, repair, troubleshooting or modification of electronic equipment associated with plant systems. Requires a working knowledge and application of practical principles in electronics with particular emphasis on microprocessors and digital electronics and their application in the power conditioning and control environments. Plant Engineering Division.

OPEN RECRUITMENT — Opportunities for Laboratory employees and outside applicants.

4008. MANAGER, PLANT ENGINEERING - Requires a bachelor's degree in engineering, an advanced degree and/or a PE or RA license desired, and 10 to 15 years' managerial experience. Will be responsible for all aspects of the Laboratory's physical plant and for the formulation and execution of basic policies for the operation of the Plant Engineering organization. Will have fiscal and budgetary control of Plant Engineering and all projects administered by it. Directs all engineering, design, construction, operation, maintenance and repair of plant equipment, and develops and implements long-range planning for the physical plant. Advises and assists in formulation of Laboratory policies with regard to contracts for labor, service, energy and engineering projects. Plant Engineering Division. Please submit your resume to Robert D'Angio, Personnel Division, Bldg. 185.

4009. DEPUTY MANAGER, PLANT ENGINEERING - Requires a bachelor's degree in engineering, an advanced degree and/or a PE or RA license desired, and extensive managerial experience. Will assist the Manager of Plant Engineerng in the direction and control of the Division, and in the development and documentation of Division policy. Will be responsible for conducting special studies and projects within the Plant Engineering organization. Will act as manager in the absence of the Division Manager. Plant Engineering Division. Please submit your resume to Robert D'Angio, Personnel Division, Bldg. 185.

4010. LIBRARY INFORMATION SYSTEMS HEAD - Requires an MLS or equivalent, substantial experience with an integrated library system, preferably BASIS, and training/experience in computer science. In addition, background in technical processing using OCLC or RLIN, as well as data-base search skills, are required. Will be responsible for planning and implementing all phases of library-automation projects, including PC applications, and developing an electronic editing environment for publications. Must have excellent oral and written communication skills. Technical Information Division.

4011. EXPERIMENTAL MACHINIST - Requires a minimum of five years' prototype machining experience in all-around machining, proficiency in job-print interpretation, and layout and machine set-up experience. Demonstrated ability in all phases of machine-shop work is essential. Central Shops Division.

4012. TECHNICAL POSITION - Requires an AAS in electrical technology, communications emphasis, or at least two years of equivalent training in military service schools, or three years' experience in the data communications field. Responsibilities will include evaluating, testing and installing of data communications facilities and hardware. Some troubleshooting of digital and analog communications lines will be required, as well as familiarity with modems, multiplexors, data switches, standard communications interfaces (RS-232, 422, etc.) and applicable test equipment. An understanding of networking technology and fiber optics is desirable. Computing and Communications Division.

Motor Vehicles & Supplies

89 CHEVY Z-71 - 4x4 pick-up, 5-spd., every option. Joe, 399-0828.

87 CAMARO - ps/, p/b, a/c, am/fm cass., cruise, red int./ext., mint, low mi., $8,500 neg. John, Ext. 3277 or 588-9363.

85 CADILLAC - beige, computerized, 80k mi., excel. cond., $7,000. Mott, Ext. 7108 or 473-2588.

85 NISSAN 300ZX - red, T-tops, p/s, p/b, a/c, p/w, am/fm stereo cass., garaged, mint, 11k mi., $13,500. George, Ext. 5185.

83 KAWASAKI MOTORCYCLE - 440 LTD, 4600 mi., excel. cond., $950. Wendy, 929-6823.

82 HONDA ACCORD LX - 5-spd., a/c, stereo cass., 83k mi., excel. cond., $3,250. Kathy, Ext. 7187 or 929-8467.

81 BUICK REGAL - excel. in/out, 70k mi., $3,000 neg. Ext. 5257 or 821-0379 eves.

81 HONDA CIVIC - am/fm, 5-spd., runs well, $600. Hugh, Ext. 4516 or 744-6901 eves.

81 FORD MUSTANG - 4-cyl., 4-spd., sunroof, am/fm cass., p/s, p/b, $1,200. Jeff, Ext. 5262.

80 DATSUN 280ZX - a/t, p/s, p/b, cruise, stereo cass., many new parts, runs well. 589-8464.

80 DATSUN 510 - wagon, sunroof, a/t, $1,000 neg. 369-9146 after 5 p.m.

80 MONTE CARLO - V6, 2-dr., a/t, p/s, p/b, a/c, needs motor, $325. Ext. 2498 or 472-9349.

80 VW RABBIT - diesel, $1,000 neg. 286-4559.

79 BLAZER - 5" lift kit, p/w, p/l, new engine & a/t, 35X14.5 Mick Thompson tires (3k), brakes, exhaust, quarter panels. Pete, 821-9547.

79 MUSTANG - V6, a/t 63k mi., $1,500 or best offer. Ruppert, Ext. 3254.

78 CHRYSLER CORDOBA - body good, not running, will sell parts, or whole, $150. Mitch, 928-4013.

73 JEEP - mail truck, 2wd, 6-cyl., a/t, L.H.D., runs well, $250. 744-4386.

67 BRONCO - complete new drive train, $3,500; Ford factory cap, for 8' pickup, $400. 474-5715.

67 CHEVY 427 ENGINE - 4 bolt main, 30 oversize. 475-9452 after 5:30 p.m.

67 YAMAHA MOTORCYCLE - 180cc, very good cond., $175. Dan. Ext. 4987 or 698-7322.

HONDA MOTORCYCLE - 90cc, w/helmet, $150 firm. Mike, Ext. 2052.

STARCRAFT CAMPER - 11½', slide-on, self-contained, shower, refrig., freeze, heat, stove/oven, $1,850. Ext. 4100 or 929-5872 after 6 p.m.

CHEVY CAP - for 88-89 pickup, new, $500; ladder racks for Chevy pickup, $300. 399-0828.

RIMS - American Racing, alum. mags w/tires, 235R X15", 4 each, fit Ford or Dodge, 5-lug, $60. Ray, Ext. 3536.

RIMS - Gragar chrome spoke rims, 15" x 17", 4 each, off Chevy pickup, 5-lug, $100 neg. George, Ext. 3120 or 722-5212.

TIRES - two, 145SR13, good tread, Japanese make, $10/each. 751-1884 eves.

TIRES - 2, Goodyear Eagles, VR60 P255 60VR16, for Corvette/Thunderbird, new, list $220/each, sell, $150/each, $285/pair. Ext. 3536 or 289-7615.

TIRES - Bridgestone, mud & snow, 6-lug rims, P21575RIJ, new. Bob, 821-2875 eves.

81 FORD MUSTANG - 4-cyl., 4-spd., p/s, gauge pkg., new clutch, 71k mi., excel. cond., $1,300. 744-9812 after 5 p.m.

80 OLDS CUTLASS SUPREME - new engine, am/fm, $875. 864-1798.

80 TOYOTA TERCEL - 2-dr. hatchback, 5-spd., a/c, good cond., $900. Eric, Ext. 5716.

80 YAMAHA QT 50 MOPEDS - two, low mi., w/helmet & bumper carrier, red or blue, excel. cond., $275. 744-0612.

79 HONDA CIVIC - 2-dr., hatchback, 71k mi., fair cond., asking $600. 286-8353.

79 HONDA CIVIC - hatchback, green, some rust, runs well, new engine, dependable transportation, 95k mi., $1,150. John, Ext. 2919 or 929-3795.

78 MONZA - good cond., asking $500. Fran, 654-2977 after 7 p.m.

77 CHRYSLER MONACO CRESTWOOD - wagon, a/c, p/w, p/s, p/b, 8-cyl., excel. in/out, asking $1,000. John, Ext. 5502.

77 MERCURY - station wagon, a/t, a/c, good tires, runs well, needs cylinder head, asking $600. 924-8213 after 5 p.m.

75 SKYLARK - dented, $[illegible]00. 929-5945 after 6 p.m.

71 CHEVY MINI MOTORHOME - 315 V-8, 115k mi., sleeps 6, complete, clean in/out, asking $4,500. Ron, Ext. 2467 or 924-8644.

69 GMC DUMP TRUCK - 5-7 yard, new motor, 2-spd. rear, good cond., asking $3,500. Dick, Ext. 3457 or 589-9103.

COLEMAN POP-UP TENT TRAILER - Somerset, sleeps 5-6, stove, good cond., $800. Ext. 4238 or 286-3509.

TIRE - 185/70 SR14, mud & snow, $30. Ken, Ext. 2214.

PARTS OR WHOLE VEHICLES - 72 Chevy Van or 74 Camaro, cheap. Bill, Ext. 4988 or 698-4882.

Boats & Marine Supplies

31' CORVETTE CLASSIC - keel/centerboard, sloop, fully equipped, excel. cond., $18,000. Ext. 2053 or 363-2796.

25' CHRIS CRAFT - 1980, inboard, FWC, full head, shower, hot water, shore power. Bill, Ext. 2807 or 281-0557.

21½' BAYLINER - 1985, cuddy cabin, 130 h.p. OMC, low hours, depth gauge, ship-to-shore, $7,500. 654-0670 days.

17' SPORTCRAFT BOWRIDER - 1981, Deep V, 470 h.p. Mercruiser i/o, full canvas, trailer, excel. cond., $5,000. Rod, 878-1580 afer 6 p.m.

16' BAYLINER BOWRIDER - 1986, 85 h.p., w/trailer, mint, 20 hours, must see, $6,000. Romano, Ext. 4024 or 265-0117.

8' DINGHY - Nordic, w/oars, simulated lapstrake, excel. cond., $275. 473-4306.

SAILING RIG - for canoe, complete except for mast, $400. Bob, Ext. 4044.

Furnishings & Appliances

BAR - w/stools, $250; dining room table, 6 chairs, 2 leaves, $375; kitchen table, 4 chairs, $75; couch, love seat, chair, $425, all excel. cond. 654-5607.

CHANDELIER - 6 lights, good cond., $25. 928-6930.

CHINA CLOSET - antique, 1920's vintage, best offer. Mike, Ext. 2052.

DINETTE SET - cherry mahogany, 4 chairs, buffet, w/leaf & table pads, $125 neg. 399-4996.

ENTERTAINMENT CENTER - custom-made, laminated, oak finish, 7'4", 2-yr.-old, 19" color Hitachi TV, all $695. 821-9422.

FREEZER - 10 cu. ft., Hotpoint, white, good working cond., $25. Bruce, Ext. 4332 or 286-2114.

GLASS SHELVES - 36", w/brass brackets, $5 ea.; shirts, $1 ea.; typewriter, $30; silver earrings, $5 pr. Tim, 744-2203.

LIVING ROOM SET - rattan, 7' couch, 2 chairs, flair style, natural rattan, loose cushions, navy, mauve & white, asking $900. 369-9146 after 5 p.m.

REFRIGERATOR - Westinghouse, 19 cu. ft., almond, beautiful cond., used 1½ yrs., $350. V. Mott, Ext. 7108.

SOFA - sleeper, earth tone. 2 yrs. old, excel. cond., orig. price $795, asking $350. Diane, 884-3763 after 6 p.m.

WALL OVEN/COUNTERTOP STOVE - all new elements, avocado, good cond., $100. Penny, Ext. 2625 or 467-8297 eves.

WATERBED - king-size, w/heaters, metal frame, dual independent mattresses, Classic, orig. $1,000, $250. Mike, Ext. 2052.

Tools, House & Garden

LAWN MOWER - Briggs & Stratton, 2½ h.p., horizontal shaft, excel. cond., $40. Dan, Ext. 4987 or 698-7322.

PLANTS - impatiens, begonias, marigolds, ageratum, dusty miller, $11/flat; pachysandra, $7/flat; azaleas, junipers, $5; much more. Ken, 744-0722.

TOPSOIL - fine screened, $19 per yd., delivered, also sand & gravel delivered. 924-9427.

TUNE-UP CENTER - Snap-on, 3 meters, $250; brake bleeder, $125; 20-ton hydraulic jack, air assisted, $250. 474-5715.

WINDOWS - Andersen, thermopane, double hung, w/screens, one 52"x53", $155; two 26"x53", $75 ea. Carol, Ext. 2896 or 475-7454 eves.

LAWNMOWERS - Lawn Boy Deluxe, 21" cut, self-drive, w/mulcher, $225; Snapper, 3 h.p., rear bagger, 18" cut, $125. Dan, Ext. 4987 or 698-7322.

HACK SAW - powered, floor model, $50; box of old, assorted, microphones & cables, $40 for all. 878-6637.

Sports, Hobbies & Pets

BIKE - 10-speed, Sears, 24" wheels, $25. 751-1884 eves.

CAMERA - Minolta XG-1, 35mm, w/50mm lens & auto-winder attachment, excel. cond., must see, $175 takes all. Joann, Ext. 2355.

CAMERA - Nikon model FG, w/50mm, 1:1.8 lens, carrying case, strap, & Vivitar auto flash model 2800-D, $200. Bilkl, Ext. 3199.

DOG HOUSE - for medium to large dog, shingled roof, solid construction, $20. Mike, Ext. 2052.

DRYSUIT - Poseidon, man's large, like new, must sell, cost $1,500, asking $500. 474-5715.

GUITAR - electric, solid body, triple pickup, Fender look-alike, $50. Ray, Ext. 3536 or 289-7615.

GOLF CLUBS - Wilson, 1, 3, 4, 5, wood set, new grips, $35. Nick, Ext. 3988.

KEYBOARD - Yamaha CVP-10 Clavinova, digitally sampled piano, harpsichord, & more sounds, full 88 key, mint, $2,600. Brian, Ext. 5265 or 234-9487.

PIANO - Lester Betsy Ross spinet, light wood, includes bench, good cond., $700. Tony, Ext. 3658/3637 or 929-4903.

RACING BIKE - 12-spd., Motobecane, 25" frame, 3 yrs. old, perfect shape, new tires, fully equipped, asking $125. Viorel, Ext. 7049.

SKATEBOARD - Custom Sims light wood board, Calif. model, Tunnel IV wheels, alum. trucks, excel. cond., $30. Ray, Ext. 3536.

Audio, Video & Computers

AMPLIFIER - for electric guitar, Crate model, distortion/clean settings, 8" speaker, headphone output, excel. cond., $50 Howard, 331-5912.

SPEAKERS - OHM Model D, 10" woofer, $35 pr. Joe, Ext. 4772.

MUSIC SYSTEM - Wurlitzer, digital, double keyboard model D5, list value $700, asking $400. 261-9000 after 4 p.m.

Free

FIREWOOD - about 2 cords, you haul. Mike, Ext. 2052.

Miscellaneous

TICKETS - two, NJ Devils vs. Washington, Sun., April 2, 15th row, $25. Rick, Ext. 2973.

FIRST-CLASS ACCOMMODATIONS - 5 days, for up to 5 people in Fla. Calif., Hawaii, Mex. or Col. resorts, $98.75. Ady, Ext. 4531 or 331-3785.

TYPEWRITERS - six, electric & manual; two TI 99 computers, excel. cond., $30-$75. 751-2655 eves.

SAFE - heavy duty, floor model, combination lock, on rollers, $25. Mott, Ext. 7108.

HOSPITAL BED - 1 year old. $450. Mark, Ext. 2224 or 661-0228.

HOBBY HORSE - Wonder, talks when rocked, like new, orig. $100, sell for $40; 10" tricycle, red, $10. Ken, Ext. 7915 or 744-0722.

COPIER - Sharp, SF-741, full-size, 4 yrs. old, A-1 cond., must sell, reg. price $1,300, asking $500. Al, Ext. 4669 or 226-1828.

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

HOLBROOK - large 3-room apt., skylights, priv. ent., non-smoker, no pets or children, immed. occup., $750/mo. incl. util. 588-7744.

MILLER PLACE - 2 bdrms., kit., l/r, full bath, non-smoker, no pets or children, , $800/mo. all., sec. 732-9324.

PATCHOGUE - studio apt., new, w/w, cable, new appli., walk to village, single working person, non-smoker, no pets, $525/all. 475-9099.

PORT JEFFERSON VILLAGE - room for rent, furn., 10' ceiling, bathroom facilities, refrigerator, hot stove, $85/week. 473-6432.

WADING RIVER - 1-bdrm. apt., eik, full bath, large l/r, priv. ent., 1 block to LI Sound, 10 min to Lab, $575/mo. incl. util. 929-3419 after 6 p.m.

WADING RIVER - 3-bdrm. high-ranch, eik, d/r, l/r, 2 baths, fin. bsmt., 2-car garage, all appliances, energy efficient, SWSD, 2-mo. sec., 6/1 occupancy. Shiue, Ext. 4395/3372 or 751-8224.

HILTON HEAD, SC - 2-bdrm. condo, sleeps 6, tennis, golf, beach, pool, Apr.-Sept. $425/wk. Guy, Ext. 3147 or 585-9149.

HILTON HEAD, SC - 3-bdrm. condo, 2 baths, sleeps 8, tennis, in/outdoor pools, Jacuzzi, steam room, ocean & golf view, $500/wk. 929-8912.

For Sale

CORAM - 9-rm. Colonial, 4 bdrms., 2½ baths, family rm., f/p, eik, d/r, l/r, cul-de-sac, in-ground pool, sprinklers, 2-car garage, mud room, $195,000. Ext. 2303 or 732-3902 after 5 p.m.

EAST SETAUKET - 4-bdrm. Colonial, 2½ baths, eik, l/r, d/r, family rm., f/p, wood floors, screened porch, 2-car gar., 0.52 acre, new vinyl siding, gazebo. Shiue, Ext. 4395/3372 or 751-8224.

LAKE RONKONKOMA - 3-bdrm. Cape, l/r, d/r, kitchen, bath, garage, full bsmt., encl. breezeway, screened porch, expansion attic, large lot, financing avail., $149,000. Ed, Ext. 7943 or 589-3992.

MT. SINAI HILLS - 4-bdrm. Colonial, Clarendon-built, center entrance, 2½ baths, 2-car garage, ¾ acre, deck, f/p, year round, view of harbor, sound & Conn., $375,000. 331-5912.

OAKDALE - 1 bdrm. co-op, 950 sq. ft., l/r, d/r, bath, eik, terrace, new appli., hardwood floors, walk to LIRR, must sell, 25 min to Lab, $87,000. 563-0135.

ROCKY POINT - 3-bdrm. high-ranch, l/r, large kit., 2 full baths, 2-car garage w/electric doors, ca/c, f/p, ⅓ acre, $168,000. Kochman, 744-1057.

PORT JEFFERSON STATION - 5-bdrm. contemporary high-ranch, M/D, 3 baths, 2 kitchens, garage, vinyl siding, fenced yard, ¼ acre, mint, $174,990. 331-1523 eves.

SHOREHAM - 4-bdrm. Colonial, 2½ baths, fenced ⅓ acre, 2-car garage, bsmt., energy efficient, low taxes, Shoreham-Wading River schools, 15 min to Lab, $175,000. Barbara, 744-0960.

SHOREHAM, NORTH - Soundview Acres, 3-bdrm. contemporary ranch, 2 baths, brick f/p, large windows onto deck, bsmt., 2-car garage, priv. beach, $249,000. 744-9746 eves.

WADING RIVER - new 4-bdrm. Cape, gourmet kitchen, Jacuzzi, cent. vac., oak floors, Italian ceramic tile, 8' bsmt., walk-out entrance, 2-car gar., $160,000. Wong, Ext. 2111.

WADING RIVER - 4-bdrm. large Cape, ½+ acre, 2 baths, d/r, l/r, family rm. w/fp, full fin. bsmt., SWR schools, $230,000. 929-6748 after 3 p.m.

WADING RIVER - 3-bdrm. ranch, 2 baths, l/r w/fp, den, formal d/r, full bsmt., 0.62 acre, landscaped yard, priv. beach, $158,000. Nick, 929-4901 after 5 p.m.

HOLIDAY, FL - Sandpiper, 3 bdrms., 2 baths, 1½-car garage, corner lot, sprinklers, cathedral ceilings, clubhouse facilities, w/time share in Maderia Beach, $75,900 firm. 474-5715.

MADERIA BEACH, FL - one-week time share, Commodore Beach Club, on Gulf, sleeps 4 adults, must sell, asking $5,000. 474-5715.

MARCO ISLAND, FL - one-week time share, condo, sleeps 4, a/c, pool, waterfront, boat privileges, $7,900. Write 343 Conners Ave., Naples FL 33963 or call Joe Feldman, (813) 597-4869.

Wanted

PARTNER - to share ownership of 30' sailboat. Ext. 7699 or 821-1435.

LAWN MOWERS - used, must be complete. Dan, Ext. 4987.

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