BROOKHAVEN BULLETIN
Volume 34 - Number 8 / February 22, 1980
BROOKHAVEN NATIONAL LABORATORY

Area Office Honors Powell

Doug Humphrey

David Schweller (right), Manager of the Brookhaven Area Office, presented a DOE certificate of appreciation to Robert W. Powell, who has retired as head of the Reactor Division. Powell was cited for his years of outstanding contributions to the design, development, and use of research reactors. The certificate also states that "for most people it would be sufficient to state that their efforts, imagination, and resourcefulness have earned great distinction for themselves, their institution, and the sponsoring agency. However, in your case, this would be inadequate for you have brought a degree of cooperation and integrity to your endeavors that has earned the respect and admiration of all who have worked with you."

Hennessy Heads Site Division

John J. (Jack) Hennessy has been appointed Superintendent of the Site Division, effective as of February 11. He replaces Herman Haller who has moved to Arizona.

Hennessy, a graduate of SUNY's Maritime College, is a Registered Professional Engineer and has been active in many projects since he joined the Lab in 1960. His first seven years at Brookhaven were spent as a staff engineer at the Cosmotron. In 1967, he transferred to the Plant Engineering Division (PE) where he was charged with providing engineering technical support for waste water treatment, potable water treatment, ground water monitoring and water supply.

Hennessy also has served as project engineer on two important PE undertakings – the Upland Recharge Project and the Alternate Liquid Fuel and Micronized Coal-Oil Blending project for the central steam plant. In addition, he was a technical advisor for the BNL/Town of Brookhaven solid-waste-to-energy study.

Before coming to Brookhaven, Hennessy spent five years as an engi-

(Continued on page 2)

A Window Into The Brain

Mysteries of the mind are being probed by a team of BNL scientists from Chemistry and Medical. They are looking into the living human brain with a technique called positron emission transaxial tomography (PETT).

The brain gets its energy by burning glucose. When you move an arm, the part of the brain controlling arm movement burns more glucose. When you look at something, the part of the brain involving sight burns more glucose, and so on. A PETT scanner can quantitatively measure regional glucose metabolism and other brain functions.

The Lab currently owns a PETT III machine, which has been doing brain scans since 1977 on a collaborative basis with the University of Pennsylvania. Based on promising research with that machine, the Chemistry and Medical Departments and New York University Medical Center were jointly awarded a three-year grant in September 1979 by the National Institute of Neurological and Communicative Disorders and Stroke, one of the National Institutes of Health, for investigations on metabolism and neuroscience.

According to chemist Alfred P. Wolf, principal investigator and program project director, the research is divided into specific biomedical areas. Some of these are: 1) measurement of glucose metabolism in people with mental disorders such as schizophrenia, 2) measurement of glucose utilization in senile dementia (a disease of the aged who have lost cognitive ability), and 3) study of opiate and dopaminergic receptors in the brain (which facilitate transmission of pain, sensory and motor signals and are involved in other functions).

New York University Medical Center, in its collaboration with BNL, is providing patient populations for the newly funded studies. In partial collaboration with the University of Pennsylvania, studies have been done with audio, visual, and sensory stimulation, comparing right ear to left ear, right eye to left eye, and right hand to left hand. To date, a total of 57 patients have been scanned, covering also the areas of schizophrenia, senile dementia, and manic depression.

Scanning Method

This is the procedure for doing a PETT scan. A short-lived radioactive tracer, commonly 2-fluoro-2-deoxyglucose (labeled with ^{18}F and having a half-life of 110 minutes) is administered to the subject and is taken up by the brain. The tracer behaves essentially the same as glucose in the first metabolic step (at that point the deoxy compound is blocked from further metabolism). Radiation emitted by the tracer within the brain is recorded externally by a ring of detectors encircling the head. Data are fed into a computer, which then reconstructs three-dimensional pictures of brain function.

The pictures are black and white, white areas indicating higher brain activity. The brighter an area, the more activity. For example, in one of the first series of scans, a collaborative effort between BNL and the University of Pennsylvania in 1977, the subject was flexing his right arm as his brain was being scanned. Since the left side of the brain controls the right side of the body, the scans were brighter on the left side, indicating increased brain activity there.

Brain metabolism, receptor site distribution, and blood flow can all be studied, depending on the radioactive tracer used. Thus, a PETT scan captures and quantitates dynamic processes in the brain, helping to reveal biochemical pathways of brain function.

PETT vs. CAT

PETT scanners are significantly different from CAT scanners, which are perhaps more familiar to the general public (the 1979 Nobel prize in medicine was jointly awarded to the developers of the CAT scanner). A CAT scanner uses an external radiation source; radiation passes through the brain and is detected on the other side. Although a CAT scan is a very sophisticated X-ray, it is a static picture and does not show the function of an organ the way a PETT scan does.

PETT VI

A new, state-of-the-art PETT VI machine will be built for Brookhaven. Modeled after one at Washington University in St. Louis, it will be five to ten times more sensitive than PETT III. David Christman, Chemistry, explains that PETT III can actually be used to scan any part of the body. PETT VI will be built only for brain scans. So, in addition to being simply better, the improved PETT VI detectors will also be positioned closer in, around an aperture only big enough for a head scan. Versatility is sacrificed for more sensitivity.

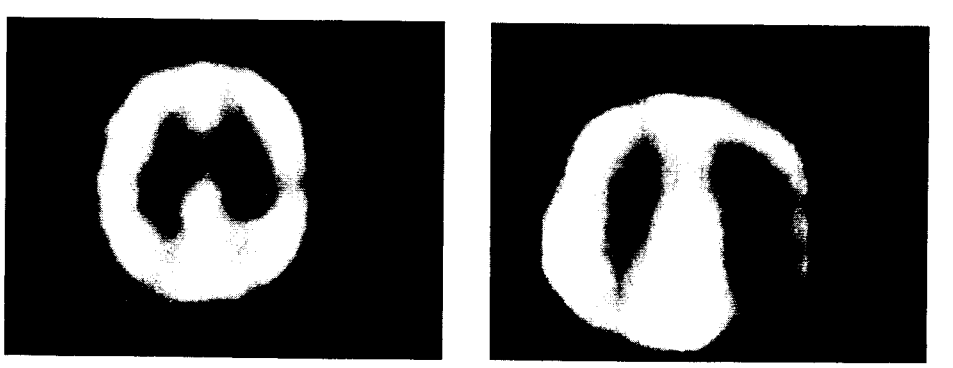
PETT VI will also be able to take seven "slices" or cross-sections of the brain at one time, an improvement over PETT III, which can only visualize one slice at a time. PETT VI will be able to do cross sections of an entire brain in a total time of as little as one minute.

Future Application

Although now used only in research, PETT scanners may eventually become diagnostic tools for physicians. Bertrand Brill, Medical, points out that mental illnesses are treated mostly on the basis of observable symptoms. Using PETT scanners, doctors may be able to see how the brain actually functions and more precisely characterize various patients because of differences in their brain biochemistry.

For example, the basis of schizophrenia is not really known. In early BNL studies of one or two schizophrenic patients, brain scans showed abnormal distributions of glucose metabolism. Under the long term project, studies are being done to explore further these earlier findings.

(Continued on page 2)



PETT brain scans of two subjects. White indicates brain activity, greater activity showing up brighter. The scan on the left, which has fairly symmetrical left and right white areas, was taken with the subject wearing ear muffs. The scan on the right was taken of another subject while Hungarian was read to him in the right ear only. Since the subject could not understand Hungarian, English words were periodically inserted to keep his interest. He was asked to push a button every time he heard an English word (and promised financial reward for every correct identification). The scan of this subject shows more brain activity on the left side of his brain, indicated by the brighter left side. In fact, numerical data compiled in the scan show a 25% increase in brain activity on the left side as compared to the right side.

PETT SCAN (Cont'd)

Researchers hope that biochemical analyses of brain function will provide clues leading to successful treatment of schizophrenia and other brain disorders.

Says Wolf, "This is a new field of research. Our project is a large-scale multidisciplinary, interdisciplinary effort. Brookhaven and a few other institutions in the U.S. have started a world-wide explosion in this area."

Arrivals & Departures

Arrivals

Henry G. Ashby, Jr.	Accelerator
Maureen E. Burns	Applied Math.
Partha Neogy	Nuclear Energy
Florin G. Tinta	Accelerator
Frank J. Zambriski	Plant Engrg.

Departures

Marian R. Canu	Safety & Env. Prot.
Ardeshir A. Irani	Accelerator
Jacqueline M. Kimbrow	Accelerator
Andrew J. Tantillo	Accelerator
Neelima Varma	Physics

Inside Info

Charles E. Falk, a former Associate Director of the Lab, has received the National Science Foundation's Distinguished Service Award. Falk received the Foundation's highest honorary award for "his leadership and expertise in developing the Foundation's extensive information system on science and technology resources." He is currently Director of the Division of Science Resources Studies at the NSF.

IBEW Meeting

Local 2230, I.B.E.W. will hold its regular monthly meeting on February 28, 1980, at 8 p.m. in the Knights of Columbus Hall, Railroad Ave., Patchogue. There will also be an afternoon meeting at 2 p.m. for shift workers in the Union Office at 31 Oak Street, Patchogue. On the agenda will be regular business, Committee reports and the President's report.

It's Never Too Early To Learn

Last week, 120 elementary students came to Brookhaven's Exhibit Center to learn about science and the Lab. They were from the Gifted and Talented Education Program in the Sachem School District. Tour guide Shelley Pick explained and demonstrated some simple concepts in nuclear research, energy technology and pollution studies. Using various props, she talked about such basic questions as "what is an atom?" "how can you conserve energy?" and "what is cancer?" The week-long special program was arranged by Janet Hoefling, Tour Program Manager, who said that it was a rewarding experience for everybody.

—photo by Humphrey

HENNESSY (Cont'd)

neer with the General Electric Company, and two years as an Engineering Officer in the U.S. Navy.

The Site Division, which currently has 172 employees, takes care of the operation and maintenance of roads and grounds, the sewage treatment plant, heavy mobile equipment, and includes riggers and custodians. As to how he sees his new job, Hennessy says "the Division will continue to provide these essential services to the Laboratory in an efficient manner, but we will always be looking for ways to do them better."

Auto Advice

When you have to make a "pit stop" on site or elsewhere, don't leave the car running. In general, every 20 seconds, an idling vehicle burns enough gas for a restart. Whether you are driving a government vehicle or your own car, prolonged idling wastes fuel, shortens engine life, plug life, and increases sludge production in the crankcase. In fact, a rule in SPI 5-05 states that drivers should not leave a parked vehicle with the ignition keys in it.

The SPI also states that all persons who operate a government vehicle at any time, either on-site or off-site, must possess both a valid state driver's license and a current Government Motor Vehicle Operator's Identification Card. And drivers should operate only those models or types of vehicles for which they are licensed.

SPM Updated

A new edition of the "Supervisors' Personnel Manual" has been distributed. This manual describes in detail the Laboratory's policies and practices and includes a section containing salary and wage ranges with job descriptions.

The manual's purpose is to serve as an aid to supervisory personnel in administering the Laboratory's policies. Although copies are distributed to supervisors only, it is intended to be readily available for use by employees.

If you are unable to locate a copy of the manual, please contact Peter Paige in the Personnel Office on extension 2885.

The "Employees' Handbook," which is a digest of the "Supervisors' Personnel Manual," was also distributed recently to all employees. If you did not receive your copy, please call Peter Paige.

Selected Reading

Long Island Forum 43 (2), February 1980
Make-and-break; hit and miss. E.H. Shepherd. 30-33

Nat. Rev. 32 (3), February 8, 1980
Is Soviet technology a paper tiger? No! G.M. Young, Jr. Yes. . . E. Stillman. 153-4+

Science 207 (4431), February 8, 1980
Osteoporosis: New help for thinning bones. J.L. Marx. 628-30

BERA Slate Named

At a meeting held on February 13, the BERA Nominating Committee selected the following slate of candidates for the 1980 BERA Board Election: John Brennan, Facilities Engineer, Plant Engineering; Dennis Klein, Technical Supervisor, Accelerator (NSLS); Michael Losquadro, Technical Supervisor, Applied Mathematics; Rosalie Piccione, Administrative Assistant, Contracts & Procurement.

During the week of March 24-28, eligible BERA voting members, including employees of BNL, AUI, DOE, and all other permanent on-site employers, will be invited to cast their ballots in an election to select two of the four candidates to serve on the BERA Executive Board.

More detailed information regarding the election will be published in subsequent issues of the Bulletin.

CREF Values

September	44.60	October	41.18
November	42.56	December	43.19

January 1980 $45.37

QUOTABLE QUOTES

SANDBURG, Carl "Life is like an onion: you peel it off one layer at a time and sometimes you weep." (San Francisco Chronicle This World 1978:40 Jan 29, 78)

CLEMENS, Samuel Longhorne "Never put off till tomorrow what you can do the day after tomorrow." (San Francisco Chronicle This World 1978:40 Jan 29, 78)

LINDSAY, John Vliet "If you want gratitude, get yourself a dog." (Chicago Tribune 22:2 Section 2 Jan 22, 78)

BUCHWALD, Art "Whether it's the best of times or the worst of times, it's the only time you've got." (Time 112:67 Sept 4, 78)

JOHNSON, Lyndon Baines "If you don't blow your horn, somebody will steal it." (TV Guide 25:A4 Dec 24, 78)

JEFFERSON, Thomas "I like the dreams of the future better than the history of the past." (Time 111:74 Jan 9, 78)

CHAPLIN, Charles Spencer "Life is a tragedy when seen in close-up, but a comedy in long-shot." (Guardian Weekly 118:5 Jan 1, 78)

REEVES, Richard "(Television) is our new environment and, like the weather, it often determines whether we stay home or not." (Esquire 89:57 April 25, 78)

RUBINSTEIN, Artur "When I was young I used to have successes with women because I was young. Now I have successes with women because I am old. Middle age was the hard part." (Chicago Tribune 37:1 Section 2 Feb 6, 78)

WEST, Mae "Betweeen two evils, I always pick the one I never tried before." (Forbes 122:144 Aug 21, 78)

HUBBARD, Kin "It must be great to be rich and let the other fellow keep up appearances." (Human Behavior 7:71 Sept 78)

PAIGE, Satchel "Don't look back. Something might be gaining on you." (Maclean's 90:96 Nov 14, 77)

FORD, Henry "Thinking is the hardest work there is - which is probably the reason why so few engage in it." (Forbes 121:96 Feb 6, 78)

STEIN, Gertrude "Everybody gets so much information all day long that they lose their common sense." (Chicago Tribune 176:2 Section II June 25, 78)

—from the *Dictionary of Contemporary Quotations*

BROOKHAVEN BULLETIN

Published weekly
for the employees of
BROOKHAVEN NATIONAL LABORATORY

BERNICE PETERSEN, Editor
MONA S. ROWE, Editorial Assistant

40 Brookhaven Ave., Upton, N.Y. 11973
Telephone (516) 345-2345

CARL R. THIEN, Public Relations Officer

Women In Science

The Women in Science Association will hold a general business meeting on Wednesday, February 27, from 12 noon to 1 p.m., in Room A of Berkner Hall. Oceanographer Sharon Smith will be guest speaker. All members and nonmembers are invited to attend. Please bring your own lunch.

To Aid Cambodians

Tonight at Berkner Hall, the Brookhaven OXFAM Committee will present two motion pictures as a fundraiser for Cambodian relief. The films are the Marx Brother's "Animal Crackers," and Hitchcock's "To Catch A Thief." Showtimes are as follows:

5:30 p.m. Bugs Bunny cartoon/ Animal Crackers
7:30 p.m. To Catch A Thief
9:15 p.m. Bugs Bunny/ Animal Crackers

Tickets, $2.50 for adults, $1.50 for children and senior citizens, are available at the door. Admission is good for one, two, or all three shows.

Volleyball

Open League

In interdivision play, the A division came out on top, but many games were fiercely contested.

Toga beat Over the Hill Gang
21-0 21-16 21-6

Bumps over Players Pool
21-7 21-13 21-14

Spikers beat Eddie and the Phoubars
21-11 21-5 21-14

Moles subdued the Monday Terrors
21-6 21-4 21-13

Mixed League

February 11, 1980
Beginning of 3rd Quarter

A:	No Names	3-0
	Nuts & Bolts	3-0
	Deegenerates	2-1
	High Society	1-2
	Family Affair	0-3
	Thrints	0-3
B:	Nads	3-0
	Diamonds	2-1
	Leftovers	2-1
	Le Mufs	1-2
	Monday Night	1-2
	Underalls	0-3

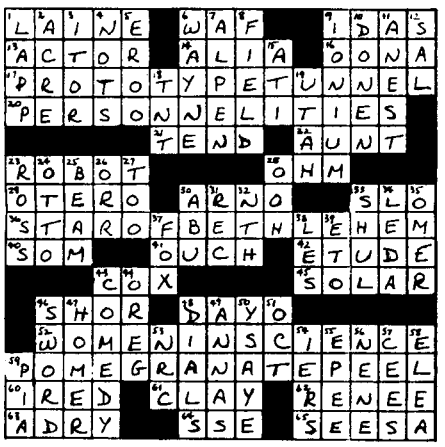
Cooking Exchange

Come and enjoy pesto, garlic bread and cassata among other Italian delicacies at the next meeting of the International Cooking Exchange. The demonstration will be held on Wednesday, February 27, from 12:30 to 2:30, at the Recreation Building.

There is a cover charge of $1 for adults and babysitting is provided at 25¢ per child.

For information contact Sharon Galayda, 821-0644, or Wendy Green, 878-8952.

Answers To Last Week's Puzzle



Bowling

Pink League

Fran Nusz scored the highest in the Benefit Tournament going 64 pins over average for three games. High games were bowled by Helen Keeley 186, Deb Johnson 174, Sharon Creveling 173, Millie Connelly 172, Fran Nusz 172, Marge Stoeckel 169, Mary-Grace Meier 168, Marie Grahn 166, Kit D'Ambrosio 161.

Red League

The 76'ers won 7-4 over the Sparks, led by J. Petro's great series (235-205) 638-725 gross. Jim was 149 pins over average for the night. J. Morris had a 230/617 gross. The Sandbaggers took 8 from the Blue Jays with 3069 pins. R. Meier had a 233/637 gross, K. Riker 211/648 gross, R. Jones 215/640 gross and C. Bohnenblusch 614 gross. The Strangers lost 11 to the Trouble Shooters. The Freon Loaders won 8-3 in a match with Isa Team. T. Rudolf grossed 637, J. Sauls 630 and R. Barberich a 216 game. The Designers won 8-3 against the Old Timers. Al Pinelli had a 621 gross.

Green League

The Old Timers II took 11 from the Phoubars to increase their lead by ten. G. Fales had a 214. The Sparks took 4 from the 76'ers. B. Kristiansen had a 204. The Blue Jays salvaged 3 from the Sandbaggers. H. Marshall had a 211. The Trouble Shooters took the Strangers for 11. The Pinball Wizards took 8 from the Light Source. Tom Prach had a 222.

Blue and Gold League

The Unpredictables dumped the Aquanauts for all 7 points, putting them only 2 points out of first place with the help of Walt Milian rolling a 550 scratch. Ruth Sheehan led her team to a win with a 180. Betty Roche had a nice game with a 163 and Sue Perri with a 150.

Get Your Tickets Today!

BERA's big bash at small prices is only one week away. Nowhere will you find so much entertainment for so little money as at the Leap Year Dance, February 29, at Berkner Hall. For $3 you can dance from 8:30 to 1:00 a.m., to the music of the Newports, munch on snacks and see the Showtime Revue. A well stocked cash bar will be available.

Get your tickets today so that BERA can make final arrangements. Tickets may be purchased every day at the Cafeteria from noon to 12:30. They are also available from BERA Board members Gerry Levine, Marge Stoeckel, Gail Williams, Carol Beckner, Don David and Pat Oster. And to make it really easy for you, all activities chairmen have a supply of tickets on hand. Their extensions and building numbers are as follows:

BERA Activity Chairmen

Activity	Chairman	Phone No.	Bldg. Address
Archery	Joseph Bauernfeind	3274	426
Art Exhibits	Eleanor & Per Dahl	3500(Per)	902A
Aviation	Joseph Shonka	4660	535
Badminton	John Guthy	4411	750
Basketball	Jerry Hobson/	3084	326
	Robert Rowley	3354	462U
Bowling	Richard Larsen	3810	510A
Bridge	Bharat Bhatt	2966	526
Camera	Martin Starke	4584	901A
Concerts	Donald Lazarus	4643	911B
Cooking Exchange	Wendy Green	878-8952	
Cricket	David Cox (Acting)	3818	510B
Exercise	Emil (Whitey) Caiazza	2907	197B
Family Camping	Quentin Beitel	4217	535B
Fly Tyers	John McCafferty	4445	902A
Football	Edwin Taylor	4126	515
French Club	Ralph Weston	4373	555
Golf	Robert Mills	2006	535
Handball	Seymour Holtzman	3600	490
Judo	Robert Marascia	4672	911B
Motorcycle	George Stenby	2012	902A
Mountain/Canoe	Raymond Tessmer	2002	475
Nursery School	Elaine Lowenstein	286-2788	
Racquetball	Richard Horwitz	4134	515
Radio	George Walczyk	4243	535
R/C Model Aircraft	Robert Larson	4656	911B
Rifle/Pistol	Otto Jacobi	4406	750
Runners/	Ted Landry	2959	318
Cyclists	Gerry Morgan	4841	815
Soccer	John Skalyo	2509	197C
Softball	Charles Bohnenblusch	4758	911A
Special Events	Rosalie Piccione	3160	355
Tennis (Court)	Lawrence Passell	3825	510B
Tennis (Table)	Charles Zein	3950	510
Theater Group	Jane Love	286-1136	
Volleyball	Kenneth Sutter	4514	703

Cafeteria Menu

Week Ending February 29, 1980

Monday, February 25		
Potato leek soup	(cup)	.45
	(bowl)	.55
Turkey à la king		1.40
Eggs à la Reine		1.35
Hot Deli – Sloppy Joe	(on bread)	1.40
	(on roll)	1.50
Tuesday, February 26		
Split pea soup	(cup)	.35
	(bowl)	.45
Chinese pepper steak on rice		1.45
Poached fillet & 1 veg.		1.40
Hot Deli – Pastrami	(on bread)	1.40
	(on roll)	1.50
Wednesday, February 27		
Cream of spinach soup	(cup)	.45
	(bowl)	.55
Fillet of fish Parisian		1.40
Stuffed pepper w/spaghetti		1.45
Special – 8 foot hero		70¢ per inch
Thursday, February 28		
Beef barley soup	(cup)	.35
	(bowl)	.45
Meat cakes & buttered noodles		1.40
Chicken fricassee	(on bread)	1.40
Hot Deli – Roast beef	(on roll)	1.50
Friday, February 29		
Fish chowder	(cup)	.45
	(bowl)	.55
Breaded flounder fillet & fries		1.40
Barbequed spare ribs & 1 veg.		1.45
Hot Deli – Beef & cheddar wrap		1.40

Smokes Going Up

There will be a price increase from 65¢ to 70¢ on all regular and king size cigarettes in the vending machines on site. Also, there will be a selection of 100 M.M. cigarettes available for 75¢. These changes will become effective February 25.

NYC Train Trip

The Hospitality Committee is planning a group railroad trip to the city on Wednesday, March 5. Departure will be at 7:55 a.m. from the Patchogue LIRR station. Round-trip fare for adults is $2.45, children under six years ride free.

Reserve a ticket by sending your fare through the U.S. mail to P.O. Box 322, Upton, New York 11973, no later than **Thursday,** February 28. Make checks payable to "Brookhaven National Laboratory." Your tickets will be given to you on the train. Refunds will be made only if cancellations are received by the Friday preceding the scheduled trip.

Classified Advertisements

Placement Notices

The Laboratory's placement policy is to select the best-qualified candidate for an available position, with consideration given to candidates in the following order of priority:(1) present employees within the department, with preference to those within the immediate work group; (2) present employees within the Laboratory as a whole; and (3) outside applicants.

The determination of the best-qualified candidate for available positions will be based upon education, experience and other job-related criteria. Such factors will be evaluated and measured against the demonstrable requirements of the available vacancy, as well as the Laboratory's Affirmative Action objectives.

The Laboratory is committed to a policy of Equal Opportunity in its selection and placement of personnel. Its objective is equality of opportunity in employment, training, and promotion without regard to race, color, religion, national origin, sex, age or handicap.

Each week, the Personnel Office lists new personnel placement requisitions. The purpose of these listings is, first, to provide open placement information on all nonscientific 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, as indicated below. Except when operational needs require otherwise, positions will remain open for one week following publication date.

For further information regarding a placement listing, contact the Personnel Placement Supervisor, Ext. 2882.

LABORATORY RECRUITMENT: Opportunity for present Laboratory employees.

1267. GENERAL CLERK - Supply and Materiel Division.

OPEN RECRUITMENT: Opportunity for present Laboratory employees and outside applicants.

1268. GRAPHIC ARTS ANALYST - Requires BS in computer science or equivalent experience in scientific programming with a working knowledge of FORTRAN. Familiarity with graphic applications on computer microfilm equipment, dissplа integrated software system and IBM 360/30 or CDC 6600 and 7600 computers is desirable. Will be responsible for the design, development and implementation of computer programs and procedures for graphic arts applications. Photography and Graphic Arts Division.

1269. TECHNICAL POSITION - Requires AAS in mechanical technology or equivalent capabilities. A background in chemistry is highly desirable. Will be responsible for performing metallographical services, polishing, photographing and analyzing specimens. Department of Energy and Environment.

1270. MANUFACTURING ENGINEER - BS degree or equivalent in mechanical or industrial engineering with a working knowledge of machine shop practices, welding techniques and vacuum technology to direct the activities of a production facility. Accelerator Department/ISABELLE Project.

1271. DEVELOPMENT ENGINEER - BSME or equivalent with a background in general machine design and high precision manufacturing processes. Knowledge of vacuum technology and computer programming desirable. Accelerator Department/ISABELLE Project.

1272. TOUR WORKER (four positions – part time/temporary) - Must have excellent communications skills in order to meet and speak to large groups. General familiarity with the Laboratory's history, research programs and physical plant highly desirable. Will serve as guide for public tours of the Laboratory from April to November. Public Relations Office/Directors Office.

1273. CLERICAL POSITION (temporary – three months) - Requires 18-24 months work experience in an office enivronment. Will act as a general clerical person for the Accounts Payable group. Experience with figures and/or light bookkeeping experience helpful. Fiscal Division.

1274. PUBLIC RELATIONS ASSISTANT (temporary – eight weeks) - Requires excellent organizational and writing skills with ability to pay attention to detail. Prior work experience in communications or publications fields is essential. Will assist editor with general preparation for weekly Laboratory newspaper; responsibilities will include researching, organizing and writing articles and reports. Public Relations Office/Directors Office.

Autos & Auto Supplies

69 MERCURY - running cond, good tires, 100,000 mi. Jim, Ext. 4488, 286-0419.

71 VW BUG - 4 spd, new paint, excel cond. $1350. 589-9103.

78 HONDA HAWK - a/t, 400cc, cover, qtz-hal light, lug rack, 60 mpg, 90 day warranty. Asking $1275. Gail, Ext. 2902, 928-2954.

79 FORD F-150 - 4x4, 351 eng, ps/pb. Joe, 399-0828.

77 PINTO WGN - good mpg, radials, roof rack, red/white roof, full pwr. 363-6845.

74 CHEVY PICKUP - ¾ ton blue automatic, 4 wd, new trans, new brakes, w/or w/o snow plow. $4,000. 744-9892 after 4 p.m.

78 CONCORD STA WGN - 6 cyl, a/t, p/s, 35,000 mi, new SB radials, excel cond. $3800. Pat, Ext. 2064 734-5226.

73 OLDS VISTA CRUISER WGN - a/t, a/c, ps/pb, 78,000 mi, very clean, excel running. $1450. 289-7383.

69 FORD FAIRLANE - 6 cyl, a/t, BRT, good cond. $200. Murdock, Ext. 4731.

72 VOLVO 144E - 4 dr sedan, 4 cyl, a/t, fuel inj, AM/FM, excel cond. $1725. 585-7244.

71 DODGE PICKUP TRUCK - 47,000 mi, 6 cyl, excellent running cond, good on gas. $1000. Bob, 475-2075.

65 BUICK LE SABRE - very reliable, good body, orig owner. $350. Sue, Ext. 3675, 4753-6570 after 6.

73 CHEVELLE - 2 dr, 307 c.i., a/t, p/w, new tires, snows. $795. Linda, Ext. 7572, 288- 2355.

72 CHEVY PICKUP- 1/2T Fleetside, 307 c.i., super immac inside & out, body & paint perf. $2500. Fred, Ext. 4095.

75 HONDA CB500T- 3000 mi, extras, excel cond. $1050. 286-8939 after 5.

65 MERCEDES BENZ 190D - good cond, needs eng work. $2000. John, Ext. 2070.

HONDA CR250 - Elsinore dirt bike, just re-bored, runs excel, extra parts, must see. 288-9086, 288-3028.

FOR PARTS - wrecked VW Rabbit, manual shift. Bob C., Ext. 2501.

76 VOLARE - 2 dr, a/t, ps/pb, mint cond, 30,000 mi. $2500. L. Green, Ext. 2933, 473-2764.

BUMPER JACK - adjustable, Sears Best, $10; AM radio + FM converter, Audiovox, $20. Ext. 2492.

REPLACEMENT TRIP BLADE - new 8' Fisher snow plow. 281-6325 after 5.

LINCOLN MARK IV - excel cond, all options, silver/red int. Sacrifiice $3700. 981-1327, 549-8811.

71 CHRYSLER STA WGN - very good cond. Asking $600. Ext. 2403/3206.

78 CAMARO - 305 V8, a/t, ps/pb, AM/FM radio w/rear spkr. $3800. Ext. 4622.

72 TOYOTA DELUX - a/t, very good cond, 30+ mpg, clean. $1375. 654-7423 after 5:30.

79 PLYMOUTH HORIZON - good cond, AM/FM radio, a/t, wine int/ext. Sandy, Ext. 4207, 981-6670 after 5.

79 F-250 FORD - 4 spd, 4x4, 351-V8, AM/FM-8 trk, 13,000 mi. $6800. 273-3965.

72 CADDY - excel cond, incl int & ext, white int/ext. 878-0658 after 5:30.

70 VW - AM/FM, new fuel pump, 4 spd, new brakes, new rebuilt eng, good gas mi. $1000. Al, Ext. 3284, 588-4703, 981-2876.

72 FORD STA WGN - Country Squire. $200. Ext. 4008, 821-0686.

WHEELS - (4) 14" chrome slotted w/chrome lug nugs & valves, excel cond. $125. Bob, 289-0413.

2 HIGH BACK SEATS - for Van, well worn. $20/both. Sam, Ext. 2018, 928-3568.

78 VW RABBIT - like new, transferrable warranty, metallic blue, polyglycoat, rustproofed, stereo. $4900. Ext. 2916, 331-2298.

65 MUSTANG - good cond, 1973-302 eng, many extras & new parts. Dennis, 234-9087.

Boats & Marine Supplies

BOAT TRAILER - needs work. $10. 654-2304 after 5.

20' O'DAY SAILBOAT - 1978, must sell, prime cond, fully equipped. 289-0925 eves.

14' STARCRAFT SEAFARER - Cox trailer, 10hp Evinrude OB, excel cond. $695. 589-4363.

Miscellaneous

SUIT - dk brown corduroy, jacket & pants, size 5, brand new. $40. 475-8658 after 6:30.

BEDRM SET - 5 pc colonial, solid maple, good cond. $225. Bob, 878-4556.

KARATE UNIFORM (GHI) - size 4, $18; girl's or boy's size 4-5, $8; girl's raincoat, size 12, $8; other baby items, asstd prices. Walt, Ext. 2907/2913, 698-0576.

SNOW PLOW - 7½' reversible blade w/pump. $350 firm. 979-6675 after 5.

(4) DINETTE CHAIRS - carmel colored, w/saddle bag straps & chrome legs, excel cond. $60. 281-0843.

SKI BOOTS - men's size 10, used 2 seasons, Caber flow foam. $25. Irving, Ext. 2062.

LAFAYETTE - model 6009 3-way spkrs (pr), F-700 light head headphones, Shure pwr deck mic, all excel cond. $175. Ext. 4289.

PARAGUN OIL BURNER GUN - compl. Bill, Ext. 4662, 298-4089.

A/C COMPRESSOR - new, cost $1300, cools 8 rms, ideal for hot air ducts; flute, made in Italy, mint cond, asking $75. Joe, Ext. 2898.

PANASONIC AM/FM STEREO RCVR - mod #SA-5500. Asking $85. Cliff, Ext. 3965, 281-8318.

GE WASHER - works fine, free, you pick up. Don, Ext. 7505.

CAMERA - Polaroid Square Shooter 2 Land camera, $15; National Geographic Magazines. 727-5912.

GE REFRIG - $100; GE washer, $60; GE dryer, $35. Ellen, Ext. 3725.

CONV SOFA-BED - good cond, needs recovering, $25; 2 bunk beds, light wgt, easy disassemble, $20 ea, $35/pr. Fran, Ext. 3379, 589-3485.

BOOKS - children's & young adults', Judy Bolton, Dr. Doolittle (set of 6), classics, others. 286-8724.

SKIIS - Rossignol 160cm w/Solomon bindings, $75; ski boots, Kastinger size 9-9½, $25; girl's ski boots, size 7, $10. John, Ext. 3354.

(2) CAPTAIN'S BEDS - lacquered white, 2 drawers ea, w/matt. $200/both. 286-9389 after 4.

SKI BOOTS - Lange, men's size 8, excel, $20; skis, Kastle CPM 205, good cond, $10. Ext. 2605.

LIV RM SET - gold velvet sectional, 3'x4' mirror, 5' knoght lamp, red velvet club chair. Steve, 884-1945.

COAT - blk wool, size 10, like new. $20. Grace, Ext. 4464, 286-8374 after 5:30.

CRIB - studio couch, bassinette (w/hood & matt), room fan, $10 ea; convertachair, cedar chest, $25 ea; rollaround TV stand, brass, $5. Ext. 4087, 475-7067.

WOOD STORMS - (2) 31x55-¼, (1) 31-¾x38-¾; shutters (2) 16x81; screens (3) 32x38-¾, $3 ea; butcher block top, 1-¼x24x26-¾, $5. Lou, Ext. 4087.

LIV RM FURN - 3 pc dk brown sectional, 2 lamps, walnut eng & coffee table, very good cond. $195 takes it all. 878-0197.

MANDOLIN STRINGS- 50¢ ea; hair dryer, $5; mailbox (door mount), $2. Sue, Ext. 4267.

GUITAR - Ibanez acoustic, 6-string, 6 mos old, brown, excel cond. $175. 277-4091.

TV - 19" console model. $40.00. Andy 289-1755.

275 GAL FUEL TANK - w/level gauge, good cond. $125. Paul, 727-4859.

RADIAL ARM SAW - 9" w/5 blades, on stand. $140. Ext. 4547.

TOASTMASTER TOASTER - $7; Toastmaster broiler, $6; smaller broiler, $3; all good cond. Ann, 286-2280.

(2) 12" SLIDE RULES - in leather cases, log decitrig, all functions, one never used. $15 & $10. Ext. 4701, 271-2877.

GARRARD TURNTABLE - 100% solid state, excel cond, like new. $175. 744-3926.

19" ZENITH TV - b/w; humidifier; fan; elec clock; bicycles; iron; hair dryer & more. Ext. 3009/3612.

NATURE SUBSCRIPTION - half price, can't use it; 2 copies of Thinking Physics, $5 ea. Gail, Ext. 2902.

MEDIT LAMP - hangs, laced blk metal, 5 velvet covered bulb holders, mint. Cost $135, asking $50. Joe, Ext. 2898.

FREEZER - GE 18 cu ft, $500 orig, frost type. $150. 281-2549.

TABLE LAMP - cane look, 24"H, 11" dia shade, 3-way switch, yellow opal globe. $10. M. Tesla, MO9-9482.

KITCHEN SET - heavy wooden table & two benches, needs refinishing. $125. 281-0360.

(3) A/C'S - (2) 8000 BTU, (1) 12,000 BTU; Snapper rider mower; gas BBQ. 588-2596.

WOOD BURNING STOVE - Better 'n' Ben's fireplace insert. $700. 734-5527.

TRUMPET & CASE - excel cond, $100; Wurlitzer organ, hardly used, excel cond, $700. 878-1803.

BIKE - 10 spd Mossberg, 26", very good cond, $80; ladies' figure skates, size 5N, never used, $10. P. Oster, Ext. 4763.

TOUR-A-BED- $9; baby bouncer, $6; bowling balls, $4 & $6; wig holders, 50¢ ea. Susan, Ext. 4207.

BUFFET - Danish modern, 5' long x 36" wide, walnut wood, great for storage, good cond. $175. Ext. 4532 or 277-4091.

Car Pools

BELLMORE - Join or form car pool. Erik Ext. 4925.

Real Estate

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

For Sale

BELLPORT VILLAGE - 3 bedrm ranch, eik, att gar, all appl, patio, stockade fenced rear yard. $37,000. 286-0795.

MASTIC BEACH - 3 bedrm ranch, corner lot, roofed patio, pleasant location near water. Low 30's. 281-7531.

BELLPORT - south, prime loc, old-fashioned charm, 9-rm, 2-story colonial, oak & tile fp, lg D/R, duplex den, 4-5 bedrms, 3 baths, 2-car gar, gas heat, .6 acre. $55,000. Anne, Ext. 3404, 286-3764.

WADING RIVER - 10 min from Lab, high ranch, 2 bedrms, DR/LR, fp, w/w, s/s, 2 baths, custom oak kit, jalousie pch, slate foyer, gar, ½+acre, downstairs possible mother/daughter, heavily landscaped, many extras, Shoreham/W. Riv Sch. $56,500. 929-8568.

SHOREHAM - ¾ bedrms, LR/DR, eik, 2 baths, all gas, ½ acre stockade fenced rear yard, S/WR Sch Dist. $43,000. Ext. 4391, 744-2444.

SOUTH HAVEN - 3 bedrm ranch, D/R, Franklin stove, oversize gar, full bsmt, patio, 5 min to Lab. $40,000. Ext. 3210, 281-6535.

For Rent

RIDGE - eff. apt., $175/month, w/utilities, 5 miles from Lab. Sandy, Ext. 4207, 981-6670

BROOKHAVEN - 2 rm apt, 12 miles from Lab, private entrance, $280/month w/utilities. 286-0626.

ROCKY POINT - 2 bedrm house w/fp, 2 blocks from beach, 10 min from Lab. $260/mo + util. Mike, Ext. 2501, (212) 833-1186.

RIDGE- 3 bedrm L-shaped ranch, lg L/R, eik, full bsmt, 5 min from Lab, will rent for 6 mos, immed occupancy. $400/mo + util. Ext. 3805, 981-5993 after 6.

MASTIC BEACH - 3 bedrms, fenced yard, lg eik, s/s L/R w/fp, att gar, 10 min to Lab. $375 + util. John, Ext. 4581, 281-1311.

MT SINAI - 4 bedrm apt, unique location in woods adjoining harbor, sublet Apr-Oct. $350/mo, refs reqd. Ext. 4179.

Wanted

WOODEN SODA CRATES - for quart bottles. Bill, Ext. 4662, 298-4089.

HEATED GARAGE - 2-car preferred, Miller Place, Rocky Point area. Jim, Ext. 3457, 473-7853.

DEHUMIDIFIER - reasonable. Bob, Ext. 3309.

PAPER TRIMMER - Don, Ext. 7505.

LAWNMOWER - rotary 20", in good cond, Briggs & Stratton motor preferred. 286-8724.

TO BORROW - or buy inexpensively, garden tools, just need them for 1 season. 744-0146.

EGGS - from the L'Eggs pantyhose, for a class project. Pam, Ext. 4256, 581-7656.

MEN'S FIGURE SKATES - size 10-½, reasonable. Richard, 727-5134.

HOME - female white mini-Samoyed, spayed, loves children, needs fenced yard. 732-3073 after 5.

WEIGHTS - vinyl or metal, also AM/FM cassette car stereo & car spkrs. Dave, 475-5543.

TIRES - reg or snow, E78-14. Tom, Ext. 2959.

USED HO EQUIPMENT - 13 yr old w/small allowance wants to buy for beginning layout. T. Sanchez, 698-3145.

SCISSOR JACK- for use on VW. Tony, noons or after 5, Ext. 3293.

BABYSITTER - mature, m-f, 8:30-5, in my home. 744-4047.

Lost & Found

Lost - cat, male gray tabby, near Lab (Ridge), reward, name is Bowle. Jerry, Ext. 3382, 924-0489.

Ads left out of this issue due to lack of space need not be re-submitted to appear in next week's issue. Please note that ads may not be more than 15 words long and must be received in the Bulletin office by 4:30 p.m. Friday, for inclusion in the following week's Bulletin.

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