

## MIT Grad Students Intern at BNL

Twelve graduate students from MIT arrived last week for a six-week internship in chemical engineering at Brookhaven. They are part of MIT's Practice School program, which was founded in 1916 to give students experience in applying fundamentals learned in the classroom. The program is run by the Graduate School of Chemical Engineering Practice.

The internships are conducted at various company sites to give students work experience. This is the first time the program has been hosted by Brookhaven.

The students will be tackling engineering problems in four areas: high temperature water vapor electrolysis for hydrogen production, Fischer-Tropsch chemistry for synthetic fuels production, corrosion mechanisms in stainless steel, and pressure swing adsorption for separation of gases. These projects were suggested by BNL staff members in technology base programs, DAS, who, along with faculty from MIT, will be advising the students.

Earlier this summer, the students did an internship at Bethlehem Steel Corporation in Pennsylvania. The six weeks at Brookhaven, in addition to course work at MIT, completes a semester of Practice School, which is accepted in lieu of a thesis for a master's degree in chemical engineering practice.



Peter Horton

Patricia Aud, information specialist in Building 120, demonstrates computerized literature searching to several MIT students.

## The Brookhaven Experience

### Summer Students Comment on Life at the Lab

*Summer students are young, intelligent, and most important, they speak...*

"I never heard of Brookhaven until I filled out the application." ... "It's almost as difficult to get accepted as it is to Harvard or to Princeton."

"This job is no different from the job I had last summer at a university. Except they make my bed here." ... "I'm finally applying stuff I learned at school." ... "You really get to know what a scientist does, something I've never been exposed to before." ... "So far, none of my experiments have yielded predictable results." ... "Field theory... Boy, let me think about that for a second. It's the study of fields, such as the electromagnetic field. Sorry, but I can't explain it any better than that."

"Now I know I'm going to take a year off between undergrad and grad schools. I need to be outside more because I consider myself more of a people's person." ... "Working here has definitely shown me that I want to go to grad school. But I'd like to study something different. I think."

*And they work...*

Marion Jackson grew up in Port Jefferson and used to attend concerts at BNL. Now she is doing research in the Safety and Environmental Protection Division, where she is observing different ground water parameters, such as transmissivity, storativity and hydraulic conductivity. These parameters are helpful to monitor pollution.



A graduate of Albion College, where she majored in geology, Jackson will be starting a masters program in the fall at Northern Illinois University. "I've been going to school long enough. Anyway, most people in my field are hired with master's degrees."

"People here are different from what I expected from the top ten percent," says Jeff Demmin, referring to the 59 summer students selected from 541 applicants. "I was expecting more nerds."



A physics major at Princeton, Demmin is working at the NSLS where he is studying the effects of radiation on people by calculating attenuation coefficients as radiation passes through the body.

Working in a medical warehouse for the past two summers, he opted for a research position this summer. At school, he participates in the college bowl, the varsity sport of the mind, which challenges team members with trivial, but pertinent, questions.

Lisa Kapustay is conducting organometallic research, specifically the use of palladium catalysts to nitrate olefins (unsaturated hydrocarbons with one carbon-carbon double bond). "My experience with a gas chromatograph probably helped me get the job," says Kapustay, a senior at Susquehanna University. Although currently working with organic chemicals, she would prefer to study physical or analytical chemistry in graduate school.



"Not many people from Bowdoin apply to Brookhaven," says Dirk Soenksen, whose honors thesis in chemistry discussed the interfacing of an Apple microcomputer. "Most students are encouraged to work in the school labs during the summer."



For the first three weeks of the summer, Soenksen was at the High Flux Beam Reactor, but a few pieces of equipment never arrived. He's since moved to the National Synchrotron Light Source (NSLS), where he is designing software for a crystallography beam line.

"In all honesty it's something to do before I go to grad school," says Soenksen, who will be studying electrical engineering at the University of Pennsylvania in the fall.

"The people here are intelligent. Some guy came up to me in the hall and gave me a dissertation on the geology of Long Island," says Lisa Alvarez.



Working in the Department of Applied Science, she is compiling a report comparing acid rain in rural and urban areas.

A senior at Harvard, Alvarez plans to get a master's degree in environmental engineering. "One thing I've learned here is that I want to go to grad school."

A biology semester student from January to May, Nathaniel Esaw from Hampton Institute decided to stay on as a summer student, one of four semester students to do so.



Working six to twelve hours a day, sometimes seven days a week, he's trying to clone three

fragments of chromosomal DNA of *Agrobacterium tumefaciens*. These transposable elements may eventually be transferred from bacteria to plants, possibly for agricultural reasons.

"I want to finish the project. There's no deadline. It just takes a while to get the fragments I want," says Esaw. "I look at it as a learning experience."

Boro Malinovic could have worked at the American Can Company this summer. "I have a friend who works there who offered me a job, but I didn't think it would be as interesting."



—photos by Rosen

Assigned to the Department of Nuclear Energy, he is helping his supervisor implement an improved computer code to determine what happens in a nuclear plant under transient conditions, such as neutronics, thermal-hydraulics and heat transfer.

A senior majoring in mechanical engineering at the University of Wisconsin, he had no research experience prior to BNL. After getting a master's degree in nuclear engineering, Malinovic would like to enter industry. "It seems that engineers there solve problems that have more of an immediate impact on society. There's also more competition than if you're strictly doing basic research."

"I ran out of papers on the Kaluza-Klein theory that I understand so now I'm studying field theory on my own," says University of Illinois senior John McCown, majoring in physics. "And whenever I have a question I ask my supervisor or go to the library."



Or go to lunch with Nobel laureate T.D. Lee. "There are some very competent people here. The person I share my office with just finished a book on lattice gauge theory. When I asked him for a copy, he turned around and gave me one of his rough drafts."

*And after hours, they play...*

"No one knew what the CIBB was. All we knew was that they were sponsoring a football game on the first Friday we were here. What's funny about them is that they can't spell too well. To them CIBB was the Committee for the Irradiation of Boredom at Brookhaven."

"One night about twenty-five of us rented a schooner and took a three and a half hour ride from Port Jefferson to Shoreham. It was a little rocky at first, but it calmed down once the alcohol took effect."

"This summer has been an awesome display of intelligence gathering and extracurricular activity. All in all, everyone is having a good time."

— Steve Eisenberg

## Contract Ratified

On August 3, members of IBEW, Local 2230, ratified a two-year contract with Associated Universities, Inc. The new contract provides for a 6-1/2% wage increase the first year, effective August 1, 1983, and a 6% increase the second year, effective July 30, 1984.

## Notice to Visitors

The Public Relations Office has a limited supply of The Long Island Guide available for summer visitors. The Guide is published by Newsday and gives comprehensive information on where to go and what to do on Long Island. For your copy, call Ext. 2345, or stop by Public Relations in Bldg. 134.

## Energy Show at Berkner Sunday

A live stage show called "Energy Today and Tomorrow" will be featured as part of the Lab tour this Sunday, August 7. The show will be presented three times during the day, in Berkner Hall auditorium.

"Energy Today and Tomorrow" is part of a special traveling program operated by the New York Power Pool. Designed to appeal to audiences of all ages, the show features an array of unusual electronic teaching devices, like an animated garbage can that demonstrates the value of recycling, a bicycle that generates electricity, an electrostatic precipitator to control pollution, and a real electric motorcycle.

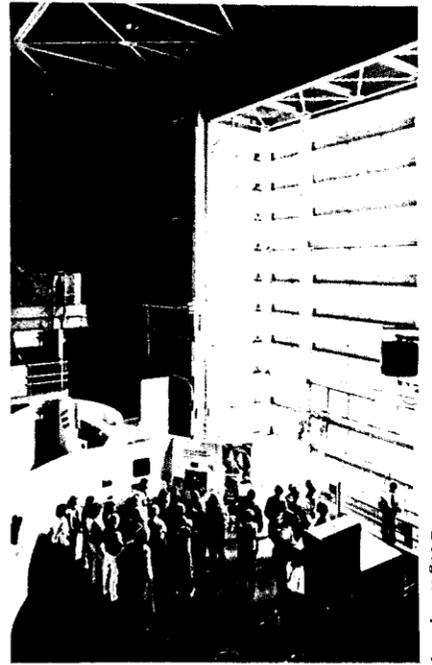
This equipment and other devices are used to describe the sources of energy today, methods used for power

generation, possible future sources of energy, and the social, economic and environmental choices we face when we use energy.

Visitors to BNL this Sunday can also take the regular two-hour guided tour of the Lab, which includes a bus tour of the site and a walking tour of the three-story Exhibit Center, where dozens of lively displays describe Laboratory research of the past, present and future.

Guided tours will be offered continuously between 10 a.m. and 3 p.m. The special energy show will be presented at noon, at 1 p.m. and at 3 p.m. There is no admission charge for the show or the tours.

Brookhaven's regular Sunday tour program will continue through the end of September, except for Labor Day weekend.



Doug Humphrey



Mort Rosen

For a third year BNL is offering summer research apprenticeships for minority high school students. Established in 1980 by the Executive Office of the President, Office of Science and Technology Policy, in conjunction with the nation's research laboratories, the program, funded by DOE, helps local minority students become more aware of scientific careers. Open to sophomores and juniors, the program has been divided into two four-week terms, with a maximum of 15 students each term. Each session is broken down into four one-week segments of instruction in physics, biology and medicine, chemistry and computers, and energy and engineering. Classroom instruction and visits to Lab facilities are conducted by high school teachers, while BNL staff presents lectures on areas currently under discussion. The July class conducted a month-long physics project, and the August class project will be on biology. The students will also participate in experiments, library work and field trips. Pictured above are the present participants in the program: (standing from left) instructor Arthur Pitschi, teacher's aide Dorothy Lester, Robin Deabreau, Ammie Gonzalez, Debbie Allen, Lalisa Lawrence, Denise Jefferson, Kim Brown, Celeste Samuels, George Crenshaw, instructors Clayton Hudson and William Lynch; (kneeling) Luz Cartagena, Hiroshi Kimura, Richard Adinolfi, Jay Sanchez, Troy Kemp, Judy Rentas, and Spencer Middleton.

## Gifted Youths Study Science

Every weekday during the month of July, the carpool ran between Hauppauge and BNL. Tammy Duggan and Karl Wieman got off at Bldg. 426, Environmental Chemistry. George Chung and David Cunningham went on to the Medical Bldg., 490. And Bldg. 815 was Scott Decatur's destination.

When the five students climbed back in their car for the ride home, they usually compared notes about their latest day as participants in the Summer Institute for Gifted and Talented Secondary School Students. The program is offered by the Board of Cooperative Education Services (BOCES) to selected students from schools throughout Suffolk County.

The students had several course options, ranging from creative arts to game theory to science internship, the program that brought 14 students, representing Bellport, Hauppauge, Middle Island, Miller Place, Port Jef-

erson, Shoreham-Wading River and William Floyd High Schools, to BNL for a month. Here, the program was coordinated by Nancy Sobrito in Personnel, whose aim was to fulfill the objective stated in the BOCES brochure: "...to place each student with a working scientist who is involved in a form of scientific inquiry that is of mutual interest."

That's precisely what BNL's science interns did. George Chung, for example, thinks he "probably will be a doctor." Working with medical associate Brenda Laster, the high school senior had the opportunity to learn more about one of the diseases he may have to deal with in that profession. Laster studies different types of cancer cells and Chung helped out by "labelling dishes, adding medium for cells to grow. Sometimes I stain the cells; sometimes I count them." In short, Chung acknowledged he got hands-on experience in many of the steps



Peter Horton

Participants in the BOCES program and their BNL mentors observe as student Karl Wieman writes a computer program: (seated) Tammy Duggan; (standing from left) Asha Divadeenam (Shoreham-Wading River H.S.), chemist Bob McGraw, chemist Gunnar Senum, chemist Horn-Bond Lin, junior research associate David Fluckiger (SUNY Stony Brook).



Peter Horton

Brenda Laster watches as George Chung stains cancer cells.

involved in conducting a medical experiment.

Tammy Duggan's mentor was chemist Horn-Bond Lin, whose work centers around lasers. She helped Lin construct interference aligned mirrors for a laser experiment. Duggan and Lin also used lasers to look at suspended particles as their frequencies and energies changed. "I told the BOCES people that I like chemistry and physics," she said. "This is environmental chemistry and the lasers deal mostly with physics and some chemistry."

While Duggan said she learned a lot from Lin, she also learned from fellow senior Wieman, who taught her about the Pascal computer language, and junior research associate David Fluckiger, a student at SUNY Stony Brook also working with Lin, who gave her instruction on using the Fortran language on the group's computer sys-

tem. Duggan had already studied the Basic and Fortran languages at school and admitted, "I thought I wanted to go into laboratory work, but this summer I've had the opportunity to work both in a lab and with computers, and I find that my interest is changing to computers." Still, that's one of the things Duggan liked about the program. "It's a great chance to find out where your real interests lie," she said.

BNL was somewhat of a surprise to many students. "I thought it would be just one, maybe two buildings," said Chung. Having adapted to this large-size laboratory, the students praised BNL and gave a high rating to the BOCES program, which concluded last Friday. Still, the students shared one complaint. "It's too short," they agreed. "Just when you get used to it, it's all over."

# BROOKHAVEN BULLETIN

Published weekly for the employees of BROOKHAVEN NATIONAL LABORATORY

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## Stockroom Closing

The stockroom in Bldg. T-86 will be closed for inventory on Thursday and Friday, August 11 and 12. To allow sufficient time to prepare for the inventory, the Supply & Materiel Division requests that all necessary withdrawals of stock be made prior to 12:30 p.m., Wednesday, August 10. Emergency requirements should be processed through Michael Guacci, Ext. 2976.

## Drivers' Note

If you rent cars for official or personal use and don't recognize this, you are missing out. Check with the Travel Office, Ext. 2531, Bldg. 179, for more information.

### The Avis Worldwide Discount Program

A special service for:

BROOKHAVEN NATIONAL LAB

A/A 298900				A/A 298900			
EUROPE	ASIA	CANADA	U.S.	EUROPE	ASIA	CANADA	U.S.
15	15	15	C1	15	15	15	C1
RESERVE AVIS 800-331-1212				RESERVE AVIS 800-331-1212			

## Movie Discounts

On sale at the BERA Sales Office in Berkner Hall are movie theater tickets at a cut-rate cost of \$2.50 each. These tickets are good at any United Artists Eastern Theater at all times, until the expiration date of August 1, 1984. Special engagements are an exception.

A list of UA Theaters in Nassau and Suffolk Counties is published in Newsday each day.

## Information For Next Semester

Both Suffolk County Community College (SCCC) and St. Joseph's College will be offering courses on site for the Fall 1983 semester. Registration for all courses will take place from August 22 - September 2, 1983, in Room 116, Bldg. 460.

Tuition fees of \$34 a credit for SCCC and \$95 a credit for St. Joseph's College can be paid by check, money order, VISA or Mastercard. Full-time employees should obtain the proper

form from Personnel to apply for tuition refund. For those who do not have a high school diploma, SCCC will grant a General Equivalency Diploma upon completion of 24 credits.

All courses will be in session for approximately 14 weeks and books will be sold the first night of each class. Preregistrations are now being accepted. For more information, contact Renee Flack, Ext. 3316.

### SCC - Fall 1983 Course Offerings

Course	Cr.	Day	Hours	Start Date
AC11 - Principles of Accounting I	4	T/Th	5:15-7:05	9/13/83
BA21 - Business Mathematics	3	W	5:15-8:15	9/14/83
BA29 - Supervision: Concepts & Practices	3	T	5:15-8:15	9/13/83
DP11 - Introduction to Computing	3	M/W	5:15-7:05	9/12/83
EG33 - English Grammar and Vocabulary Development	3	M	5:15-8:15	9/12/83
SO11 - Sociology	3	W	5:15-8:15	9/14/83
MA05 - Elementary Algebra	3	Th	5:15-8:15	9/15/83
MA24 - Statistics, II	3	Th	5:15-8:15	9/15/83

### St. Joseph's College - Fall 1983 Course Offerings

BUS200 - Marketing	3	Th	5:15-8:15	9/8/83
CH/HA401 - Problem Solving For Professionals	3	T	5:15-8:15	9/13/83

## WIS Meeting

Rebecca Bishop of BNL's Chemistry Department will speak about "Science, Art and Common Sense" at the next meeting of Brookhaven Women In Science on Wednesday, August 10, at noon in Room A, Berker Hall.

In her talk, Bishop will discuss the chemistry of archeological turquoise and ancient ceramics from Meso America. Bishop, a graduate of Southern Illinois University, works in archeological chemistry on physical analysis of archeological materials. Among the methods involved in this work are neutron activation analysis, x-ray fluorescence and x-ray diffraction.

Everyone is invited to attend the meeting. Please bring your lunch.

## Arrivals & Departures

### Arrivals

Bruce J. Dionne ..... S&E P  
Giovanni Matone ..... Physics  
Munawwar Sajjad ..... Chemistry

### Departures

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

Rodney T. DiGirolamo ... Accelerator  
James A. Harper ..... Medical  
Peter C. Keck ..... Biology  
Anthony A. Kossiakoff ..... Biology  
Richard L. Maldonado ..... Reactor  
Sidney M. Raynor ..... Plant Eng.  
Solomon Shteyn ..... Biology  
Casimir Szpulecki ..... Central Shops  
Marguerite A. Toscano ..... DEE  
Shang-Lin Weng ..... Physics  
Michael F. Zukas ..... Reactor

## Computer Club

The Commodore Users Group of the BNL Microcomputer Club will hold its formal organizational meeting at noon on Tuesday, August 9, in the Biology conference/library room. The purpose of the meeting is to elect officers, organize the club software library of approximately 400 programs, set dues for the coming year and schedule classes and demonstrations.

Dues will be used to upgrade and purchase club hardware (computers, disks, duplication equipment) and software to be kept on site for class/demonstration and personal use.

All are welcome, even if you don't own a computer. If you can't attend or need more information, call Rich Vargas, Ext. 2593, or George Sintchak, Ext. 4227.

## NYC Train Trip

The Hospitality Committee is planning a group railroad trip to New York City on Wednesday, August 17. Departure will be at 7:55 a.m. from the Patchogue LIRR station. Round-trip fare for adults is \$3.50; children under five years ride free.

Reserve a ticket by sending your fare through the U.S. mail to BNL, P.O. Box 322, Upton, New York 11973. Please do not send cash. Checks or money orders, payable to BNL, must be received by Thursday, August 11. Put the date of the trip, your BNL life number and your phone number on the back of the check or money order. Tickets will be given to you at the railroad station on the day of the trip. Refunds will be made only if cancellations are received by the Monday morning preceding the trip.

## Softball

### Scores for week of July 25

Blue Jays 18 - Ravens 10  
For the Blue Jays, Dennis Hall and Jeff Drososki were 4 for 5, Hank Arnesen was 3 for 4 and Dave Hansen had a home run. For the Ravens, Bob Brown and Bob Barone were 3 for 4 and Mike Losquadro was 2 for 2.

Big Sticks 23 - Moles 19  
For the Big Sticks, Lou Evers had a grand slam homer. Mike Bannon and Walt Bay were 5 for 5; Walt Bay and Charlie Bloxon each had a home run.

AMD 8 - Six Pax 6  
For AMD the defense was the winning factor. Offensively, Paul Kessler had a two-run homer.

Phoubars (won) - Ice Pops (lost)  
For the Phoubars, John Ingoglia and Dave Jensen were 6 for 6.

### League II

Magnuts 14 - Titans 2  
Lights Out 20 - Dirty Sox 7  
Roga 10 - Random Errors 2  
Light Source 10 - Medical 9

### League III

Survivors 14 - E-Z Riders 0  
Nads 6 - Mole-Esters 3  
TNT 4 - No Names 1

### League IV

Random Sample (won) - Underalls (forfeit)  
The Source 12 - Mudville Sluggers 7  
Septembers 15 - Who's on First 13  
Turkeys 13 - No Feedback 5  
Spacekadets (won) - Who Cares (forfeit)

## Motorcycle Club

The Motorcycle Club will meet at 5:15 p.m. on Monday, August 8, at the Recreation Bldg. Autumn rides and a picnic rescheduling will be discussed. Remember to be at the Orient Point ferry by 6:30 a.m. for tomorrow's ride to Fall River, Massachusetts.

## Equipment Demo

On Thursday, August 11, LeCroy Research Systems Corp. will display research instrumentation in the lobby of Berkner Hall from 10 a.m. to 5 p.m.

## Vaudeville

Tonight & Tomorrow Night  
Starting at 8 p.m.  
In the Cabaret at Club 30\*

Comedy Routines...

Exciting Dances...

A Variety of Song Styles...Pop...  
Barbershop... Classical...Hindu Raga

An Entertainment Extravaganza

\$3 for general admission  
\$2 for those under 18 & over 65  
Drinks & Snacks on Sale

\*North Room of the Brookhaven Center

## Safety Shoes

The safety shoe store in Bldg. T88 will be closed for the week of August 8-12, and no shoes will be issued then. The store will reopen August 15 at 12:30 p.m.

## Golf

The fifth tournament of the BGA golf season will be held on Monday, August 15, at the West Sayville Suffolk County golf course. Tee times will be from 11:30 a.m. to 1:00 p.m. and may be obtained by contacting John Connelly, Ext. 4639, Bldg. 452. Entry fees are \$1 for league members, \$2 for non-league members. All entry fees must be paid by Wednesday, August 10.

## Singles Club

The BNL Singles Club will meet Tuesday, August 9, at 5:10 p.m. in Room C, Berkner Hall. All interested parties are invited to attend. For more information, call Chuck Watson, Ext. 5317.

## Art Exhibit

A one-woman art exhibit by Susan Varga Chrien will be on display every Sunday afternoon in August, from 3-5 p.m., at the Old South Haven Church in Brookhaven Hamlet. Chrien is a member of the BNL Art Committee. Among the works on display will be acrylic, oil and watercolor paintings; pencil and charcoal sketches; wood sculptures and a plaster of paris carving.

## Cafeteria Menu

### Week Ending August 12, 1983

#### Monday, August 8

Cream of chicken soup (cup) .65  
(bowl) .75  
Beef liver w/onions & 1 veg. 1.80  
Grilled chopped steak  
w/mushrooms & onions & 1 veg. 1.95  
Hot Deli: Veal pattie & peppers (bread) 1.85  
(roll) 2.00

#### Tuesday, August 9

Pork and cabbage soup (cup) .65  
(bowl) .75  
Beef Burgundy on egg noodles 1.95  
Corned beef, cabbage  
& boiled potatoes 2.20  
Hot Deli: Roast top round  
of beef (bread) 1.95  
(roll) 2.10

#### Wednesday, August 10

Turkey vegetable soup (cup) .65  
(bowl) .75  
Meatcakes & onions w/1 veg. 1.85  
BBQ spare ribs & 1 veg. 1.95  
Hot Deli: Turkey breast (bread) 1.85  
(roll) 2.00

#### Thursday, August 11

Beef noodle soup (cup) .65  
(bowl) .75  
Yankee pot roast of beef  
& 1 veg. 2.00  
Sautéed chicken breasts  
on rice 1.95  
Hot Deli: Monte Cristo 1.90

#### Friday, August 12

Manhattan clam chowder (cup) .65  
(bowl) .75  
Breaded fish fillet w/1 veg.  
& cole slaw 1.85  
Ham & potato au gratin & 1 veg. 1.85  
Hot Deli: Clam boat 1.95

# Classified Advertisements

## Placement Notices

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

Each week, the Personnel Office lists new personnel placement requisitions. The purpose of these listings is, first, to provide open placement information on all non-scientific staff positions; second, to give employees an opportunity to request consideration for themselves through Personnel; and, finally, for general recruiting purposes. Because of the priority preference policy stated above, each listing does not necessarily represent an opportunity for all candidates. As a guide to readers, the listings are grouped according to the anticipated area of recruitment.

Except when operational needs require otherwise, positions will remain open for one week following publication date.

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

**LABORATORY RECRUITMENT:** Opportunities for present Laboratory employees.

1920. DESIGNER POSITIONS - Requires AAS in mechanical technology or equivalent. Must have a minimum of three years' experience in mechanical design fundamentals including working knowledge of mechanical, optical and vacuum components. Individuals will work on the National Synchrotron Light Source beam line layout. National Synchrotron Light Source Department.

**OPEN RECRUITMENT:** Opportunities for present Laboratory employees and outside applicants.

1921. PATROL OFFICER (2 positions) - Requires AAS in criminal justice or equivalent experience performing diverse security duties for a large organization. Excellent communication skills are necessary as well as ability to work shifts. Will participate in comprehensive training program in order to become knowledgeable of site and police procedures. Safety and Environmental Protection Division.

1922. CARPENTER (Temporary) - Under minimum supervision lays out, constructs, modifies and maintains buildings and component parts from construction drawings, rough sketches or verbal instructions. Works with wood, wood substitutes, and combination materials and flooring, roofing and wall materials. Plant Engineering Division.

1923. SYSTEMS/DP ANALYST - Participates in the design and development of various administrative and management systems and their associated computer implementation. Requires a BS in business administration, or related field, and several years' COBOL programming experience, some at the analytical level. Knowledge of Image 3000 Data Base Systems necessary. Familiarity with ASK, QUERY, SPL desirable. Management Information Systems Division.

1924. ADMINISTRATIVE POSITION - Requires bachelor's degree in accounting or business administration with accounting major and a minimum of 5 years' experience in budget preparation, maintenance and reporting. Working knowledge of scheduling techniques and familiarity with administrative data processing is essential. National Synchrotron Light Source Department.

## Auto & Auto Supplies

79 HONDA MOTORCYCLE - CB750K, \$1,900. Payton, Ext. 2843.

76 DATSUN HATCHBACK - B120, \$1,000. Sharon, Ext. 3995.

TIRES - (4) 14" Bridgestone, mounted on Toyota Celica wheels, \$120. Bob, Ext. 5010.

80 HONDA MOTORCYCLE - 650cc. 286-0273 days.

77 FORD PICKUP - 475-4199.

72 CHEVY IMPALA - \$250; 1970 DODGE VAN, \$250. Lou, Ext. 4639 or 277-2671 after 6 p.m.

70 CHEVY PICKUP - \$800. John, Ext. 3675 or 924-3528.

78 CHEVY CUSTOM VAN - \$5,500 or best offer. Tony, Ext. 3198 or 924-5248.

73 SUZUKI MOTORCYCLE - 500cc. Dan, Ext. 7518 or 929-3195.

79 HONDA MOTORCYCLE - CM400T, \$1,000. Ext. 7125.

76 MERCURY MARQUIS - Brougham, \$2,100. 581-7656.

75 FIAT X19 - \$1,900. 286-3679.

74 DODGE VAN - \$1,000. 878-1124.

78 HONDA MOTORCYCLE - CX500, \$900. Ext. 2259 or 473-8356 eves.

72 OLDS DELTA 88 - \$550. Paul, Ext. 3080 or 473-3689.

72 MERCURY COMET - \$500. Ext. 2909 or 473-5996.

HUBCAPS - single and sets, 14" & 15" Chevy, 15" Dodge, \$3/ea. or \$11/set. Rino, 273-2958.

TRUCK TIRES - 17.5x8.00, Remington Hiway, Chevy rims, \$125/pair. 265-1039.

80 SUBARU DL - \$4,000. 878-2543.

TIRES - (4) Goodyear polysteel, w/w, (3) P195/75-5-14, (1) P205/75-R-14, excel. spares, \$10/ea. Ext. 2492.

80 RENAULT - LeCar, \$2,800; 1972 Ford LTD Country Squire wagon, \$900. Ron, Ext. 3887 or 286-0353.

71 PONTIAC LEMANS - \$700. 369-2844 eves.

INSULATED CAP - for 8 ft. truck, \$250. Joe Henriques, Ext. 4439.

74 HONDA CIVIC - \$850. Sharon, Ext. 3946.

74 SUNLINE CAMPER - 8-1/2 ft. 289-0967 after 6 p.m.

71 OLDS - Vista Cruiser wagon. Ext. 4401 or 286-1832 after 5.

77 BUICK LESABRE - Ext. 3113.

81 CHEVY MALIBU CLASSIC - \$6,100. Ext. 5294.

APACHE RAMADA CAMPER - Solid State. Dave, 798-7564.

MOTORCYCLE FAIRING - \$150. 727-0771 after 6 p.m.

75 BUICK ELECTRA - 225, asking \$1,200. Bob, Ext. 2352 or 473-9016 or 473-3511.

81 GTA CELICA TOYOTA - \$8,000. Linda, Ext. 7745.

81 CITATION - \$4,100. 567-9025 after 6 p.m.

73 HONDA CYCLE - CB350, \$500. Bob, 281-7683 after 5 p.m.

RIMS - (2) 15" Ford. Bernd, Ext. 7559.

80 CHEVETTE - \$3,500. 732-7444.

80 CUTLASS SUPREME - \$6,200. Ext. 7608 or 475-6772.

TIRES - (2) B60-13, mounted on Ansen Sprint mag wheels, \$50/pair. John, Ext. 4615 or 475-6981.

HONDA CHOPPER - 750cc. Bob, Ext. 2309 or 473-9180 after 5:30.

61 DODGE - 300, power wagon, \$1,500. Mark, 589-8228.

78 MUSTANG II - \$2,800. 567-5593 eves.

72 VW BUS - asking \$1,000. 654-2076.

73 VW TRANSMISSION - automatic, \$90. Toni, Ext. 2907.

VW TOW BAR - \$50; VW parts, new. Augie, Ext. 2419 or 289-4211 eves.

76 BUICK CENTURY - station wagon, \$1,900. 581-7656.

73 VW CAMPER - \$2,700. 286-0497 eves.

## Boats & Marine Supplies

33" ULRICHSEN TWIN - 1969, 225 Chryslers, planked hull, fully equipped in storage, Stony Brook Marine. 751-1398.

C-SPRITE - 1978 w/Mercury, 85 HP, electric start, complete pkg., \$1995. 744-5224.

19' THUNDERBIRD - all glass, sit down cabin, 105 HP Chrysler, \$2,200. Ext. 2075.

25' PACEMAKER - Cruiser, in water, \$1,800. Ext. 4289 or 878-9582.

16' FIBERGLASS - Runabout, 40 HP, elec. start, new galvanized trailer, \$750. Dave, Ext. 4019 or 698-2256.

75 CHRYSLER - 35 HP outboard, controls, gas tank, runs well, \$500. Jeff, 286-0353.

MUSHROOM ANCHOR - 100 lbs, can be used for mooring, used 1 season, \$100. 751-6418.

## Miscellaneous

STEREO - Quadraphonic, am/fm, multiplex, 8-track, auto. changer, fm needs work, \$100 or best offer. Devinder, Ext. 4360.

TRESSEL TABLE - 2 leaves, 6 chairs & pads, \$400; antique furniture, table, buffet, china closet, \$100; dishwasher, \$100. Liz, 281-6488 after 3 p.m.

VIOLIN - 1/2 size, \$100. Eileen, Ext. 4949 or 924-4922.

DRYER - \$25, runs well. Roy, Ext. 4664 or 744-8779.

BASF BLANK CASSETTES - C-90, Pro II, CrO2, \$2.75 ea. Ext. 2521.

CASSETTE RECORDER - Panasonic, RQ-409S, built in handle & mike, like new. \$30. Ext. 3876/4822.

HAMS - Heath C.W. transceiver HW16, w/V.F.O., antenna, tuner, SWR meter, coax switch, complete \$200. 589-2648.

REFRIGERATOR/FREEZER - Amana, 19 cu. ft.; picture window, 4'6 x 4'6, alum. frame, dbl. glass; hot water heater, elec. 325-1961.

MATTRESS - queen foam w/frame, good cond., \$50; Sears mower, like new, \$100; Kenmore washer, \$50; Philco-Ford color TV, needs work, have photofact folder, \$25. Ext. 2733.

ALTO SAXOPHONE - R.E. Olds Parisienne, Ambassador, excel. cond. 298-8657 eves.

ELECTRIC HEATER/FIRE PLACE - \$10. 929-3550. DOLLHOUSE - wallpapered, painted, 6 rooms, \$10; framed backpack, excel. cond. with hipbelt, \$20. Jack, Ext. 3040 or 399-5042.

COUCH - colonial style, plaid pattern with wood trim, high back, 3 mos. old, excel., \$300. Claire, Ext. 3260 or 878-2655.

WOMAN'S BICYCLE - 3 spd., Raleigh, \$55; air conditioner, window-unit, Emerson, \$120; full size mattress, \$25. Ext. 7132 or 3182 eves.

STEREO - am/fm radio, turntable, 8-track, needs dust cover, \$45. 289-7879 after 6.

VIVITAR 75-210 SERIES - one macro zoom lens, new, \$85. Roger, Ext. 4343 or 744-1458.

SCREEN HOUSE - 12 ft. aluminum, used one season, \$100. Ext. 4930 or 744-5892 eves. ROTOTILLER - 36" belt drive, Ford, for use with 10 HP tractor; spreader, 1 bushell, mounts on rear of tractor, flex. shaft driven, \$50; pachysandra, 25 for \$3, 50 for \$5.50, 100 for \$9. Ed or Jean, 929-4522.

DISHWASHER - needs small part, \$55; old baby carriage, \$10; upright vacuum, \$15; dryer, 2 mos. old, \$85; desk, oak, flat top, \$100; brown + tan area design rug, \$40. Sharon, Ext. 3946.

BASEBALL/SOFTBALL GLOVE - Mizuno, used twice; blue and gray parakeet, with cage, supplies. Stacy, Ext. 2319.

REFRIGERATOR - Westinghouse, \$60; Sears workbench, \$10; photo developing kit, \$25; projector screen, \$20. Yoko Ozaki, Ext. 4876 or 3915.

COFFEE TABLE - Italian walnut, inlaid top, rectangular, 51"x25", \$50. Ext. 3535 or 732-0257.

JACKET - with hood, female, winter, Sears size 12, \$20. Lucy or Walter Palais, 698-0576.

CIGARETTES - Benson & Hedges 100's, 12 pkgs., \$8.50. Ext. 2492.

AIR CONDITIONER - 5,000 BTU, used one season, high eff., \$150; baby items, car seat, carriage, walker, changer, playpen, etc. Ext. 2386.

LAWN SPREADER - Scott's stainless steel, 24"; Compton's pictured encyclopedia, 15 vol. + year books, very good cond., \$35; Haitian cotton, 6+ yards, 54" wide, brand new bolt., beige, \$45. 286-0379.

TRUCK WINCH - hand operated, 5/10 ton capacity, takes 80 ft. plus, of wire rope. Rino, 273-2958.

POOL - all aluminum, 27x4, above ground, stainless steel sand filter, G.E. 3/4 pump, \$450. 924-5257.

GIRL'S BIKE - 20", 3 spd., mint cond., \$40; boy's bike, 20", good, \$15; Sears dishwasher, under counter, runs, \$75; radio phono, Olympia, turntable, good woodwork, beautiful, \$75; portable 19" TV, Admiral, works, needs some work, \$50; children's cribs with springs, good cond., \$25/ea. 473-9223.

JALOUSIE WINDOWS - (6), \$60; maple dinette, captain's chairs, \$200; maple full bed, dresser, nite tables, \$200; sofa, 2 chairs, \$150. Ext. 7626 or 924-3417.

ORGAN - Wurlitzer, two 44 note keyboards, 13 note pedal, dark wood, 15 music books incl. 924-3755.

SINGLE BED - reasonable cond., \$7. Ext. 3705 or 862-7998.

CURTAINS - smock-top, 2 pair, 84" long, 2 smocked tiebacks, dusty rose, excel. cond., asking \$40. Theresa, Ext. 2907.

PORTABLE TYPEWRITER - Smith Corona, w/case, excel. cond., \$50; Mr. Coffee, coffee maker, \$8. 878-0717.

FISH TANK STAND - 10 gal size, \$10. 289-0413.

GREAT DANE PUPPIES - fawn, males & females. Fran, 475-4451.

GATE - 5 ft. walkway, chain link, self closing, includes all hardware, good cond., \$30. Victor, Ext. 2395.

CENTER SET FAUCET - Delex 4", brand new, reasonable. Sal, Ext. 2460.

ZENITH TV - 19" black & white. 689-3856.

DINING TABLE - oval, 42"x58", 12" leaf, very good cond., asking \$50. Ext. 7505 or 689-8605.

KITCHEN SET - formica table, leafs, 6 chairs, excel. cond., \$125. George, Ext. 3397, or 666-4133.

COLOR TV - 13", like new, \$80; Royal elec. typewriter, correction key, used only half a year, \$100. Ext. 3113.

## Free

BLACK PUPPIES - lovable, chubby. John, Ext. 3675 or 924-3528.

REFRIGERATOR - Coldspot, top freezer, as is, you remove, in working order. 281-7844.

DISHWASHER - built-in, works. 929-3550.

DOG - 2 yr. male Lab./Shep. mix, very loveable, his mommy is moving. Ext. 3946.

BABY GERBILS - cute, clean, ideal pets, ready to go Aug. 1, free supply of wood chips included. Tom, Ext. 7196.

## 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

SAYVILLE - cedar & brick, 7 rooms, eik, d/r, 2 full baths, full basement, garage, central air, across golf course, excel. cond., can be made mother/daughter apt., \$69,900. 589-2681.

WADING RIVER - colonial cape, 4 bdrms., 2 baths, d/r, eik, 2 car garage, 2100 sq. ft., set on 1.9 wooded acres, Shoreham/Wading River school district, asking, \$115,000. Ext. 4313 or 929-4551.

RIDGE - one acre bldg. plot, 100 x 400, fully wooded, established quiet locale, \$13,900. 924-3236.

CENTER MORICHES - old Victorian on Montauk Hwy., close to Lab, 3 bdrms., enclosed breezeway, 1-1/2 car garage, full basement, \$58,000. Ext. 3946 or 878-2510.

MARGARETVILLE - year round, 2-plus bdrms., 2 baths, elec. & wood heated, full cellar, fireplace, 2 car garage with shop & loft, all heated and insulated storage bldg., 8 acres, 2 cleared, 1/2 stream, adjoins state land. (914) 586-4634.

## For Rent

FARMINGVILLE - apt. for responsible single person, bdrm., l/r, partial kitchen, full bath, clean & private, \$325 includes all. Ext. 2907 or 736-1341 after 6 p.m.

EASTHAM, CAPE COD - 4 bdrm. house, sleeps 8, 2 baths, washer & dryer, dishwasher, deck, near beaches, lower rates for fall. 722-3865 eves, weekends.

SHIRLEY - 3 bdrm. ranch w/basement & garage, no pets, \$700/mo. & electric. 399-5316.

BELLPORT VILLAGE SOUTH - near bay, stores, fully furnished, spacious modern house, incl. all appl. & piano, late Aug. to X'mas or Jan., rent negotiable to responsible tenant. 286-0379.

SHIRLEY - 2 bdrms., new basement apt., \$400 plus elec. Frances, Ext. 2901.

PATCHOGUE - studio apt., private entrance, near shopping center, 1 person. 289-0967 after 6.

MEDFORD - 2 rm. studio apt., private ent., cable TV, all util. inc., \$300. 475-7532.

MILLER PLACE - 2 story, colonial, 8 rms, 4 bdrms, 2 car garage, 1/2 acre, 90-180 days, immed. occupancy. \$850/mo. Ext. 7532.

## Car Pools

PATCHOGUE - driver needed to complete 3-man car pool, 8:30-5. John, Ext. 4214.

BABYLON/WEST ISLIP - one or two drivers needed. Ext. 2500.

NORTH SMITHTOWN - would like to join car pool. Judy, Ext. 2145.

BELLPORT - join or start car pool, 8:30-5. Liz, Ext. 2082 or 286-8563 eves.

RONKONKOMA - driver to join 3 person pool, near LIE exit 59, 8:30-5. Victor, Ext. 2395.

## Wanted

TRIPOD - & lenses for use on Cannon AE-1 series. Dan, Ext. 7518 or 929-3195.

JEEP - CJ-3, 1945-51 to be restored, parts, manuals, info. as to surplus military vehicles. Tony, Ext. 3198.

HOUSE TO RENT - professional couple, no children/pets, September, year round. Janet, Ext. 2751 or 878-1953.

ITALIAN LANGUAGE TUTOR - for September, for American going to work in Italy. 286-8664.

TONTURI ROWING MACHINE - or equivalent. Ext. 5079.

PICK-UP TRUCK CAP - 8', step-side bed, reasonable. Bob Peck, Ext. 3145.

HOUSEMATE - share large 4 bdrm., 3 bath house, 20 min. to Lab, 10 min. to SUNY, \$164/mo. & 1/3 util. Ext. 2521. 928-8379.

BARBELL WEIGHTS - plastic, cheap. Bob Peck, Ext. 3145.

WASHING MACHINE - gold, in good cond. 298-4398.

MINERALS - mineral collections, old mineral books, publications. Plotkin, Ext. 4717.

TO RENT - retired couple needs place, Aug. 15-Sept. 15 or Sept. 1-30. Ext. 4192.

QUARTERS - for September, will house sit, or share apt., or house. Brent, Ext. 4636.

OLD BICYCLE PARTS - to practice working on and experiment with. Ext. 4030 or 878-2484.

HOUSE TO RENT - North or South Shore area, for 1+ years. Ext. 2824 or 3078.

CLASS III TRAILER HITCH - for wagoner. Jim, Ext. 3354 or 585-3417.

BUNK BEDS - Linda, Ext. 7745 or Walter, 722-3938.

RIMS - 14", 6 hole for Mazda or Ford Courier pick-up. Al, Ext. 5128.

Ads for Services may be posted at the BERA Sales office.

## Classified Ad Policy

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

- The Brookhaven Bulletin's classified section may be used only by active and retired Laboratory employees.
- All items for sale or rent must be the advertiser's property.
- Ads for material acquired for resale in association with a full or part-time business cannot be accepted.
- Ads for the sale or trade of firearms will not be accepted.
- Ads not carried because of space restrictions will be held for publication in the next issue.
- Ads are run only once and must be resubmitted if they are to be repeated. One ad per person per week.
- Property for sale or rent cannot be accepted on this form. Special Real Estate Ad Forms are available at the office of the Brookhaven Bulletin, Building 134.

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

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


Note: The following must be completed for your ad to appear.

NAME (Please Print) .....

Employee's Signature