

Dalal Appointment Signals Start Of Change In Administrative Systems

10-1168-78

Jagdish R. Dalal has been appointed Manager of Management Information Systems and, as such, will be responsible for the development and implementation of policies, practices, procedures and standards related to overall management information systems at the Laboratory. He will be in charge of the newly established Office of Management Systems and the Administrative Systems and Data Processing Division (ASDP).

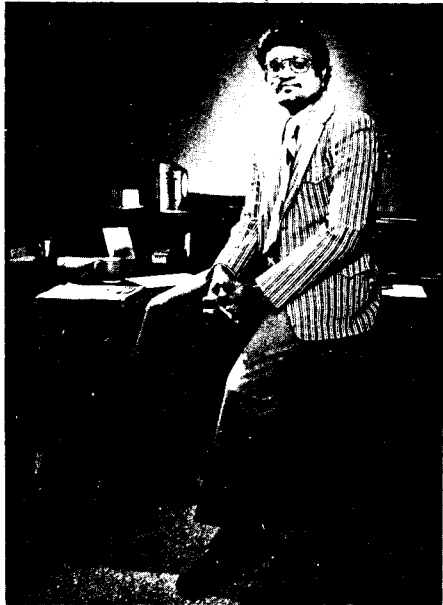
For the last five years, Dalal was Director of Systems and Data Processing at Teledyne Corporation, Toledo, Ohio, where he managed all company-wide systems and data processing functions. He started at Teledyne in 1972 as Manager of Finance Systems.

From 1967 to 1972 he was with the Ford Motor Company, first as a research engineer/systems programmer and later as senior engineer. At Ford he was engaged in a variety of projects involving systems design and the development of specifications for computerized data collection.

Dalal holds a B.S. degree in Mechanical Engineering from Gujarat University (India) and a M.S. degree in Industrial Engineering from Wayne State University.

Mr. Dalal's appointment is the first major step towards implementing a comprehensive long range plan for administrative systems and data processing activities at the Laboratory. The plan was developed by a committee drawn from BNL scientific, administrative, and administrative data processing management staff, after many months of research, visits to other laboratories and using the services of a consulting firm expert in information systems.

The importance of a Lab-wide management information system had become increasingly apparent, chiefly from the need for control of scientific program activities, the handling of more numerous and complex reports required by DOE and other federal agencies, and for updating the ASDP hardware and software configurations. These structures are dated and limit the ability of BNL departments and divisions to obtain data necessary to manage operations.



Jagdish Dalal
— photo by Reben

As the plan is put into effect, all administrative data processing needs will be channeled through the new organization headed by Mr. Dalal, and the need for independent departmental use of computers for administrative purposes will be eliminated.

The Office of Management Systems, currently being staffed, will be responsible for the design and coordination of management information systems, consistent with overall Laboratory needs and priorities. The ASDP will furnish the hardware and the software tools required for their effective operation. The two units will have a peer relationship and will be managed by Mr. Dalal who, in turn, will report to Henry C. Grahn, Assistant Director for Financial Planning.

The new organization represents a long term investment by the Laboratory, both in staff and in money, to make a major breakthrough in the design of Laboratory-wide systems. As the next step in this direction, the procurement of a large-scale mini-computer to supplement the ASDP Division's existing IBM 360/30 computer, has been authorized for this fiscal year.

A Big Day For ISABELLE

10-1166-78

Under Secretary of Energy Dale Myers and Congressman Jerome Ambro will be among the guest speakers at the ISABELLE groundbreaking ceremony, to be held at 3 p.m. this afternoon. The special ceremony, which will take place at the ISABELLE site on the northern extension of Railroad Street, will mark the beginning of construction of the giant accelerator, following more than seven years of intensive planning and development work.

Approximately 500 people have been invited to attend the groundbreaking. They include involved BNL, AUI and DOE staff, local and Federal Government officials, business and labor leaders, and members and friends of the scientific community.

One of the highlights of the ceremony will be the placing of the first twelve permanent survey monuments that will guide the construction of ISABELLE's 2½ mile ring. The cylindrical concrete monument will be lowered by a backhoe into a pre-dug hole, with the assistance of James Sanford, ISABELLE Project Head, and William Wallenmeyer, Director of DOE's Division of High Energy Physics. Following placement of the monument, several of the special guests will "do the honors" by shoveling dirt around its base.

Under Secretary Myers, who will be one of the featured speakers, will spend the day at the Lab, touring facilities and meeting BNL staff. He was named to his post by President Carter in September 1977. His distinguished career has included extensive experience with Rockwell International's aeronautics and space programs, and four years of service as associate administrator for manned space flight at NASA. As Under Secretary of Energy, he oversees those DOE programs requiring major budget outlays, such as conservation, energy research, development and application, associated environmental programs, and defense programs.

Congressman Ambro, well known to Brookhaven as the man who first proposed the construction of ISABELLE to Congress in 1977, has said he will discuss the mutual benefits that can result from a close cooperative relationship between the scientific and political communities.

The 45-minute ceremony will also include brief remarks by Congressman John Wydler, Lab Director George Vineyard, AUI President Gerald Tape, and Profes-



Paul Mohn (left) and Alan Thorndike are on hand as Doug Smith puts the finishing touches to a sign made for today's ceremonies. Both Mohn and Thorndike have been deeply involved in preparations for the ISABELLE Ground-breaking: Mohn in making the physical arrangements and Thorndike in coordinating the day's activities.
— photo by Reben

sor Michael Zeller of Yale, who is chairman of HEDG, the high energy physics users organization.

Preliminary design of ISABELLE was begun in 1971 and was followed by six years of increasingly detailed design work and technical development. In 1977, construction of the giant accelerator was proposed by Congressman Ambro (supported by the entire Long Island Congressional delegation) and later unanimously recommended by the Science and Technology Committee of the U.S. House of Representatives. In January 1978, President Carter's budget package included a request for full authorization of the \$275 million construction project and \$23 million in construction funds for the 1979 fiscal year.

ISABELLE's construction will require nearly 400 workers on site each year. By the time the machine is operating, about 200 new people will have been added to the present Lab staff of 3,500. According to current estimates, over \$100 million will be expended in the metropolitan area for labor and materials.

Schwarzschild Named Physics Deputy

Arthur Schwarzschild, a Senior Physicist and Associate Group Leader of the Tandem Van de Graaff Research Group, has been appointed Deputy Chairman of the Physics Department. He is replacing Martin Blume who has resumed full time research.

As Deputy Chairman, Schwarzschild will have full responsibility for all personnel and budgets in nuclear physics. The operation of new facilities such as TRISTAN, the Hypernuclear Spectrometer and the Electron Spectrometer will be under his jurisdiction. In announcing Schwarzschild's appointment, Physics Department Chairman Nicholas Samios said, "His talents and scientific prowess are particularly well matched to the challenges and opportunities in this vital area of physics."

Schwarzschild joined the staff of the Physics Department in 1957 after receiving his Ph.D. degree from Columbia University. He was appointed Associate Group Leader of the Tandem Van de Graaff in 1971. His special research interests include experimental physics, nuclear structure and nuclear reactions.

Martin Blume has been Deputy Chairman and head of solid state physics for the past three years, and Samios noted that "it was during this time that the productivity and the potential of the Physics Department was greatly enhanced. This was in no small measure due to the good judgment and initiative of Dr. Blume." Blume

has now returned to solid state physics research and will continue as Chairman of the National Synchrotron Light Source Steering Committee. 10-1238-78



Arthur Schwarzschild
— photo by Reben



Famous Quartet Returns To BNL

The Tokyo String Quartet, whose concert here last spring was a sellout, will perform again at Berkner Hall on November 8 at 8:30 p.m. Their program will include Variations and Scherzo by Mendelssohn, op. 81, the String Quartet by Ravel, and the Quartet No. 13, op. 130 by Beethoven.

Now in its ninth season, the Tokyo String Quartet plays more than 100 concerts per season from North America to the Far East. Their current schedule in North America calls for performances in 20 states and in Canada.

The Corcoran Gallery in Washington, D.C. has loaned the Quartet the great Quartet of Amatis. These instruments were

created by the Italian luthier, Nicolo Amati, between 1656 and 1677.

All of the young musicians were trained at the Toho Music Academy in Tokyo and later pursued intensive study at the Juilliard School in New York. Shortly after the formation of the quartet, they were first prize winners of the Coleman String Quartet Competition in Pasadena, California, in 1970. Not long afterward, they took first prize at the famous Munich Competition and became overnight sensations.

Single admissions for the BERA concert are \$4.00; students and senior citizens \$2.00; persons under 18 \$1.00. Tickets are available at the door.

Lecture Reminder

Virologist James Vaughn will present the first Brookhaven Lecture of the season on November 1, at 8 p.m. in Berkner Hall. He will talk on "Viruses in the Long Island Environment."

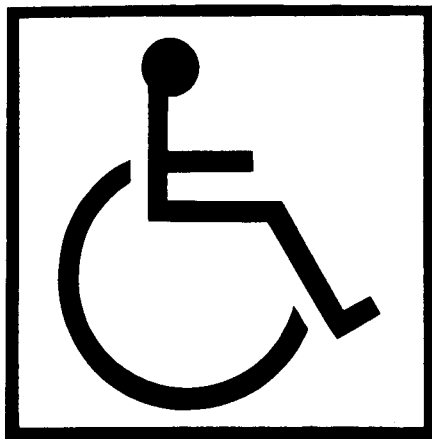
For The Handicapped

If, for instance, you have a broken leg, or suffer some permanent disability, it is discouraging to find that designated parking spaces have been taken by able bodied persons.

To remedy this situation, identification cards which can be displayed on the dashboard will now be issued to the handicapped. Such persons should apply to Police Headquarters for their cards. Only cars displaying the proper ID will be allowed in the handicapped parking spaces at Berkner Hall, Staff Services Division, Personnel and Bldg. 535.

In addition, any handicapped person who wishes to have a parking space designated for his use near his place of work should also apply to the Police Headquarters.

This procedure is effective immediately.



Handicapped I.D. card.

While on the subject of traffic regulations, the following rules are listed in the SPI and are reprinted to serve as a reminder to all employees:

The general traffic rules and regulations of the State of New York have been adopted for both private and Government vehicles operated on the Laboratory site. The following traffic rules apply specifically to the Laboratory site:

1. Speed: 30 miles per hour, except where otherwise posted.
2. Parking is permitted only in designated parking areas in accordance with any posted limitations.
3. Right-of-way: Fire apparatus, police vehicles, ambulances, and utility emergency vehicles have the right-of-way on the Laboratory site. Other vehicles should promptly move to the side of the road whenever such emergency vehicles approach.

Scholarship Deadline

Only two weeks remain for the children of Laboratory employees to submit applications for the 1978 AUI Trustee scholarships. Applicants are reminded that the deadline for receipt of applications at the College Scholarship Service, Princeton, N.J. is November 10. The necessary forms and further details are available from the Office of Scientific Personnel, 40 Brookhaven Avenue.

Inside Info

Recently elected to the Governing Council of the American Public Health Association was Andrew Hull, BNL's supervisor of Environmental Monitoring in S&EP. Hull has been active with the APHA since 1964 and was elected to a three-year term by members of the Association's Radiological Health section.

At its four day annual meeting held in Los Angeles last week, Hull was among the approximately 100 governors who set the Association's laws and resolutions. Hull was particularly gratified, he said, to be among the council which passed a position on the health impacts of energy production and utilization. The position was largely the work of a task force on energy policy chaired by Samuel Morris of the National Center for the Analysis of Energy Systems and on which Hull also served. The findings of the APHA are consulted by the public and government when enacting laws and allocating budgets.

Photos Available

Prints of BERA's 1978 Dinner Theatre Special Event are now on display at the cafeteria. Individuals who wish to order copies may do so through the Film Service Office.

15 Prehistoric Things Alive Today

1. **Coelacanth (fish)**
A 6-ft. fish discovered alive in 1939 in the Indian Ocean off South Africa. Existed 400 million years ago. Previously thought to have become extinct 70 million years ago.
2. **Australian Lungfish (fish)**
Discovered alive in 1869. Was on this earth 200 million years ago.
3. **Lingula (marine animal)**
Member of the phylum Brachiopoda. Has been in existence half a billion years. Longest lived of all animals.
4. **Ginkgo (tree)**
Darwin called it a "living fossil." Dates back to the time of the dinosaurs. May still be found in China and elsewhere.
5. **Peripatus (worm)**
Goes back 500 million years. Found in tropics.
6. **Horseshoe Crab (crustacean)**
Still exists unchanged after 300 million years.
7. **Dawn Redwood (tree)**
Also known as Metasequoia. Was found in China in 1946 and has since been propagated in California. Goes back 100 million years.
8. **Tuatara (reptile)**
Unchanged for 200 million years. May be seen on islands near New Zealand.
9. **Okapi (African mammal)**
Related to giraffe. Goes back 30 million years and remains almost unchanged.
10. **Welwitschia (desert plant)**
Was on the earth millions of years ago. May still be found in southwest Africa.
11. **Bristlecone Pine (tree)**
Was on the earth in 6200 B.C. Is on the earth today. One specimen, known as Methuselah (it started growing at the time the pyramids were built), is 4,600 years old and may be seen 9,000 ft. up on one of the White Mountains in California.
12. **Stephens Island Frog (amphibian)**
It is believed that this frog is the one from which all living frogs have descended. From 170 to 275 million years old. First found in 1917 in New Zealand, its present home. Unlike most frogs, it does not have webbed toes.
13. **Crocodile (reptile)**
From 160 to 195 million years old. Found all over the world. Twenty-one species known today.
14. **Duckbill Platypus (aquatic mammal)**
First seen in Australia in 1797. At least 150 million years old.
15. **Turtle (reptile)**
About 275 million years old. Can be found in most parts of the world. From 200 to 250 species.

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Campaign '78

The United Way "thermometers" posted near the main gate indicate that the Lab's campaign is fully underway. Significant increases over last year's drive are noted in the Fiscal Department and in the Division of Contracts and Procurement whose co-ordinators are Josephine Gazzola and Rosalie Piccione, respectively. Each group reports over 50% participation. "The results of each of these co-ordinators' efforts are making it a close race for the Director's plaque," commented Lab Co-ordinator Mike Guacci.

Employees may continue submitting their pledge cards and next week, Mike will file the first report by department of the campaign's success.

Those who require further information about the United Way and its work or who need pledge cards may contact Mike at extension 2976, Jim Vance, extension 2120, or any of the department/division representatives listed in the October 6 Bulletin.

Holiday Hams

Available from the cafeteria are bone-in, smoked hams ready for your holiday table. They are \$1.69 per pound and may be ordered by calling Ext. 3541.

Retirees

9-698-78



Charles W. Porcaro, an electrician in Plant Engineering, is retiring today after 19 years of service at BNL. Charles' long-range retirement plans include preparing his Farmingville home for sale so that he may move to El Paso, Texas, to avoid the Long Island winters. His plans commence, Porcaro adds, after he's through serving jury duty - which begins this Monday.

—photo by Rosen

After 26 years, William J. Walsh retired October 20 from the Medical Department as a Senior Administrative Assistant. Walsh states that he has "no definite plans" for his retirement except to rest up so that he may travel and later visit the east coast where his 11 grandchildren live.

Claim It!

The Recreation Office is holding a myriad of articles that have been turned into Lost and Found and never claimed. It's time for a bit of house cleaning! Next Tuesday and Wednesday have been designated as "claim days." During the 12:00 to 1:00 lunch period, all articles will be on display in the Recreation Summer Office at the Gym.

Do come over and check them out! Perhaps a glove, or bathing suit, or a pair of glasses, or a set of keys that you lost months ago will be there - waiting to be returned to you.

Winter Is Coming

Bill Webster of Staff Services states that BNL's motor pool vehicles are now winterized and that heaters and snow tires have been checked and antifreeze added. Water may be added to a vehicle's cooling system, continued Webster, only in an emergency. If a driver does so, he or she must notify the automotive maintenance shop so that proper antifreeze protection can be maintained.

Visiting scientists who are driving General Services Administration vehicles must have them properly winterized prior to November 30, or with the vehicle's next scheduled service and inspection work order, whichever comes first.

The cooling system of every vehicle must be checked and permanent antifreeze added. The GSA notes that no sealer or compound may be used. In addition, the vehicle's radiator must be tagged noting the date antifreeze was added to the system and the temperature at which the system remains protected.

The vehicle's cooling system should be periodically checked by hydrometer reading throughout the winter.

The hoses and clamps of each vehicle should be inspected and tightened. Hoses should be replaced if necessary.

Drivers can obtain antifreeze, snowtires or chains from their local Interagency Motor Pool. The Pool closest to BNL is at JFK International Airport (Tel. 212-995-3310). Commercial sources, however, may be used to comply with GSA winterizing requirements when the vehicle is not in the vicinity of a motor pool. Costs for the commercial services can be placed on the U.S. Government National Credit Card.

Lab Point Of Interest To Britons



BNL's Lt. Doran points out a new bullet proof window at police headquarters to members of the International Police Association who toured the Laboratory last week. The visitors were police constables, sergeants and detective constables from Staffordshire, England. They are on a visit to this country and a stop at Brookhaven was scheduled for them by the Suffolk County Police.

—photo by Reben

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Science Store Hours

In answer to inquiries from a number of employees, it should be noted that the Science Store at the Exhibit Center will be open on Thursdays and Fridays, until November 17, between the hours of 10 a.m. and 2 p.m. The store stocks solar energy kits, prisms, nail puzzles, weatheramas and other items which are suitable for Christmas gifts or stocking stuffers.

Arrivals & Departures

Arrivals

Eric J. Bernholz..... Ph. & Gr. Arts
Barbara S. Boerjes..... Supply & Materiel
Jack S. Feldman..... Accelerator
Thomas J. Haycock, Jr..... Nuclear Energy
Ruth Ann Lutz..... Accelerator
Tan N. Nguyen..... Physics
Kevin B. Yachnik..... Plant Engrg.

Departures

John D. Mills..... Biology
William J. Walsh..... Medical

BROOKHAVEN BULLETIN

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Time Out

In a break with tradition, the *Brookhaven Bulletin* has decided to ignore the coming of Eastern Standard Time. Readers can no longer depend on the *Bulletin* for instructions on how to set their clocks back or forth, on whatever day the clocks are supposed to be set, back or forth.

In past years, much time has been devoted to research on the proper day and way to convert from Daylight Saving time to the other time, and at one period in the *Bulletin's* history, it seemed that the research led to an erroneous conclusion. Each year, heated staff discussions are held to determine just how to handle this minor story. Numerous checks are made to see what will be the exact date of the change, and there is considerable anxiety as to whether people will be late or early as a result of ignoring (or taking) the *Bulletin's* advice. It is most wearying.

So this year, the *Bulletin* is going to trust to the good judgment of its readers to make their own decisions about what to do with clocks sometime before the start of work next week.

South Pacific

The Belgian journalist-explorer Albert Rozberg will present a lecture, "Tahiti - The Maoris: Who Are They?" on Monday, October 30, at 8 p.m. in Berkner Hall. The speaker is fluent in both French and English, and as the talk will be illustrated with 150 slides, it should be of interest regardless of the language used. Mr. Rozberg's lecture will be sponsored by *Le Cercle Français de BNL*, and all members of the BNL community are invited to attend. Those who are not members of the BNL French Group will be asked for a donation of \$2 or \$1 for students with ID.

Cafeteria Menu

Week Ending November 3, 1978

Monday, October 30	
Corn chowder	(cup) .30 (bowl) .40
Beef chop suey on rice	1.30
Scrambled eggs, sausage and fr. fr.	1.15
Hot Deli - Pastrami	(on bread) 1.15 (on roll) 1.25
Tuesday, October 31	
Beef noodle soup	(cup) .30 (bowl) .40
Knockwurst and sauerkraut	1.15
Roast chicken w/stuffing and 1 veg.	1.20
Hot Deli - Veal pattie and peppers hero	1.25
Wednesday, November 1	
Cream of potato soup	(cup) .30 (bowl) .40
Braised meatballs à la mode w/buttered noodles	1.25
Fried filet w/fr. fr.	1.25
Hot Deli - Roast beef	(on bread) 1.25 (on roll) 1.35
Thursday, November 2	
Chicken vegetable soup	(cup) .30 (bowl) .40
Cheese ravioli and 1 veg.	1.10
Sauerbraten and potato pancake	1.45
Hot Deli - Italian sausage and peppers hero	1.25
Friday, November 3	
Fish chowder	(cup) .40 (bowl) .50
Spaghetti w/clam sauce	1.10
Breaded pork chop and 1 veg.	1.50
Hot Deli - Smoked tongue	(on bread) 1.15 (on roll) 1.25

Himalayan Highlights



Malcolm Howells, an experienced mountaineer, will give a talk and show a movie on "Mountain Climbing in the Himalayas" on Thursday, November 2, at 8 p.m. in Berkner Hall. The illustrated lecture is sponsored by the Mountain Club. Howells, a physicist on the staff of the National Synchrotron Light Source, has been scaling mountains for twenty years in North Wales, the Alps, the Scottish Highlands and Yosemite National Park. He has made four climbs in the Himalayas. This past summer he made his fourth trip to that region as part of a British expedition to Choktoi I in Pakistan.

A Day At The Races

At the 16-mile waterstop, the Long Blue Line of the New York City Marathon wound toward the East River and around the corner of 59th Street and First Avenue where it stretched north to the 20-mile mark in the Bronx. Crowds had already begun to gather over an hour before the lead runner was expected to pass by the 16-mile point, and Bob and Betty Phillips of the BNL Roadrunners had set up their waterstop anticipating the dryness of the Lab's 27 runners who'd entered Sunday's New York City Marathon.

The runners could not actually be seen crossing the carpeted Queensboro Bridge at about 11:30 a.m., but as soon as the leaders were spotted exiting the bridge, the crowd cheered, clapped and whistled its encouragement. BERA runners who paused for a half-second at the 59th Street private watering hole provided some of the most exciting moments for the BNL cheering section who, by about noon, spotted Gus Prince, Dave Judkins, Steve Amoretty, Ted Landry and Dick Fuller pass the stop to begin the remaining 10.2 miles.

Two hours, 12 minutes and 12 seconds after the 10:30 a.m. start on the Verrazano Narrows Bridge, Bill Rodgers completed the 26.2 mile course at the finish line in Central Park to win his third consecutive New York City Marathon victory. Rodgers led the trickle of finishers which steadily increased until, at midafternoon, there was an unending stream of exhausted marathoners crossing the line where many collapsed in the medical section or on Central Park's lawn under 80° temperatures.

Professional attention to the runners was "excellent," noted Gerry Kinne who was a medical section volunteer. Due perhaps to the detrimental warm weather, Gerry commented, the main medical problems were nausea, dizziness, chills and leg cramps even though the "hordes of runners were in magnificent condition."

One runner crossed the finish line, assumed a yoga head stand for 10 minutes and when through, walked away. Another runner craved a banana which the medical section simply did not have; one nurse, however, volunteered the banana from her lunch.

By about 5 p.m., all of the BERA Roadrunners had finished the race, by crossing the finish or otherwise. In Room 1710 of the Saint Moritz, blistered, tired but jubi-

lant BNL runners celebrated with family and friends. Smiling despite a hip injury was Jean Burt; "I made it!" she said. The toughest part of the race? "It's those last 36 miles in Central Park," remarked Dave Penoyar. "I won't feel right until Thursday," maintained Dave Judkins, "but it gives you a sense of self-esteem to push to a limit, to work on your running and see an improvement."

"A marathon is a funny race," said Dick Fuller, "you can plan out your first 20 miles and for the last six, you just hope there's something left." A good marathon, he continued, "is not finished with a kick." "To have to pass those vendors (who sold endless souvlaki, chestnuts, soda, pretzels and ice cream) while feeling a little nauseous after finishing a marathon was too much," Ted Landry noted. And Gus Prince, after completing the course in 3:09, was packed and on his way to chair a meeting in Oak Ridge, Tennessee.

On the bus for BNL at day's end, tired but talkative marathoners traded Yoo-hoo, crackers, stories and liniment. "Not many of us wore our official BNL T-shirts," Don MacKenzie began, "because it was so hot. But I was wearing mine and every so often someone in the crowd recognized the logo and yelled out, 'Run, Brookhaven!' At the 24-mile mark in Central Park, one particularly fast thinking spectator, familiar with the Lab's work, spotted Don's shirt and yelled out, "Go Brookhaven! ACCELERATE!!"

Name	Unofficial Time
Ted Landry	2:42
Dave Judkins	2:47
Steve Amoretty	2:48
Dick Fuller	2:49
Gus Prince	3:09
John Brodowski	3:20
Jerry Sbarra	3:39
John Elmore	3:40
Terry Frei	3:41
Lew Commerford	3:43
Rich Scheidet	3:46
Don MacKenzie	3:48
Tom Ruth	3:56
Dave Penoyar	4:02
Jean Burt	4:07
Anne Nauman	4:50
Jack Baer	4:54
George Pecchio	5:00
Sol Pearlstein	6:21
Gail Waite	6:25

John Beerman, John Ferrero and Bob Bari retired from the race with stomach or leg cramps after 17 miles.

Basketball

The BERA Basketball League is now in the process of formation. This year, an attempt will be made to have rosters submitted by interested teams. Further information and forms are available at the BERA Film Service in Berkner Hall.

A players' pool sign-up sheet for individuals interested in playing will also be available at the Film Service Office. Those who sign up will be placed on a team if they are not already on an organized roster.

The deadline date for team rosters is Wednesday, November 8, and for the players' pool, Tuesday, November 14.

Games will be played on Thursday nights from 5:30 to 9:30 p.m. at the Gym. Pick-up games are currently being played on Thursday nights and new participants are welcome.

Football

Players Pool 2 - Chickens 0 (Forfeit)
Roga 53 - Sweathogs 6

Jim Garrison ran an interception back 40 yards for a touchdown and threw passes for two more touchdowns, as he lead the Roga onslaught.

Quarks 28 - Tee Dees 14

Don Litcher, Walter Mason, Jr., Bob Casey, Stan Gilbert, Gary Mosley and Fletcher Johnson all played inspired football as they led their team to victory.

Soccer

The outdoor soccer season has ended and indoor practice sessions start on Friday, November 3, in the Gym at 5 p.m. Team play will begin later in the month.

Anyone interested or planning to play, should merely show up on Friday (with tennis shoes, etc.), or call John Skalyo, Ext. 2509.

Bowling

Green League

The Sparks bowling the Freon Loaders took eight to stay in first. J. Cockrane had a 200. The Blue Jays moved into second as they downed the Trouble Shooters for eleven. L. Jacobson had a 203. The Old Timers II lost to the Pinball Wizards as the latter took eight. Again, R. Eggert had a good night with a 238 and a 600 scratch series. The Dyno-Mites took six from the Sandbaggers while the Cosmos took six from the This Isa Team.

Purple & White League

The Pin Pickers took all 7 from The Good Times winning the first game by 12 pins, the second by 1 pin and the third by 3 pins.

For the men, Al Pinelli had high game with a 244/571 series and Caryl Mac Dougall for the ladies with a 233/535 series.

Other high games were Carolyn Eterno 189/168, Mary Austin 179, Wilma Erikson 168, Betty Jellett 166, Liz Bull 165, Carl Murray 226, Ed Meier 203.

Pink League

Millie Connelly was the star Pinsplitter helping her team to take seven with two good games, 205/160 for a 503 scratch series and a 674 gross. Add to that Marge Stoeckel's 165/161, Ellie Adams' 163 and you come up with the second highest scratch game series of 1796 for the year (coming close to their 1815 series of last week).

Audrey Blake (162) and Barbara Cochran (160) also bowled good games.

Red League

With the best night of team bowling thus far, This Isa Team knocked down 3124 pins (an 1181 game) but only split with the Cosmos 5-6. R. Barberich (233-237) had a 621-693 series. W. Kollmer 200-201 had 584-623, S. Kiss (218) a 566-653 and J. Sauls 200.

The Oldtimers took the Designers 8-3 with C. Cantera having a 251 game (595-700) series. J. Roesler had a 210, R. Adams 212 and J. Fontana grossed 656 pins. The 76'ers won 7-4 over the Anachems. J. Morris bowled 210 and E. Gill 203.

The Sandbaggers split 5-6 with the Dynamites. E. Meier had a 208. A. Dick bowled 206. The Freon Loaders only took 3 in their match with the Sparks. F. Stahman (201) grossed 662 pins and F. Powers grossed 651.

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.

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, 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.

797. ADMINISTRATIVE ASSISTANT - Requires extensive background servicing office and laboratory equipment and supervising service personnel. Will be responsible for coordinating activities related to the procurement and maintenance of business and technical machines and equipment for scientific department. Medical Department.

798. STORES CLERK (4 positions) - Supply and Materiel Division.

799. DRIVER LIGHT - Supply and Materiel Division.

800. DRIVER - Supply and Materiel Division.

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

801. ELECTRICAL ENGINEER - Requires BSEE or equivalent capabilities and solid background in the design of hardware for computer and/or micro-processor-controlled feedback systems. Familiarity with common microprocessor instruction sets is desirable. Accelerator Department.

802. TECHNICAL SPECIALIST (2 positions) - AAS or equivalent capabilities. Responsible for operating instruments, recording measurements, and programming data for research project. Requires demonstrated ability in calibrating electronic test equipment and handling data for computer analysis. Medical Dept.

803. ELECTRICIAN - Plant Engineering Department.

804. MACHINE MAINTENANCE MECHANIC - Demonstrated ability and knowledge in areas of shop machine, tools and plant equipment. Central Shops.

Autos & Auto Supplies

73 TRIUMPH TRIDENT - 5,244 miles, 3 cyl, 750 cc, like new, extras. \$1,000. Firm. Leo, Ext. 4688 or 475-4557 eves.

RIMS - (2) 15" for Rambler or Hornet; (1) 14" rim for Plymouth Duster. 231-8479 after 6.

73 VEGA HATCHBACK - good tires, needs work. \$250. 289-1089 after 5.

SNOW TIRES - (2) Gillette ER78-14 steel belted radials, used 2 months. \$60. Jeff, Ext. 4010.

71 BSA CHOPPER - 650 cc, custom molded ridge frame, a stock BSA, for parts, needs motor work. \$500. 698-7190.

76 OLDS - Cutlass Supreme Brougham, mint cond, all power, a/c, am/fm stereo, tilt wh, landau roof, sport mirrors and wh, 38,000 mi. F. LaPlaca, Ext. 2461 or 331-9139 after 6.

72 PONTIAC LEMANS - p/s, p/b, a/c, am/fm stereo cassette, good cond. Ext. 3284.

66 CHEVY - 6 cyl, auto trans, 4 dr. runs good, good tires w/extra snows on rims, body good. \$300. Lloyd Davis, Ext. 3952/4803 or 325-0389 after 6.

70 NOVA - doesn't run, 4 good tires, a/c unit, good parts. \$50. Ed, 277-5851 after 7.

68 BUICK - V8, auto, p/s, good transportation, must sell. \$250. or best offer by 10/31. White, Ext. 3047.

BRAKE DRUMS - set of 4, resurfaced, fits Dodge and Plymouth cars w/14" wheels. \$40. or best offer. Joe, Ext. 2251.

SNOW TIRES - Sears Traxionex Radials, FR78-14, (2) mounted on rims, excel cond. Richard, Ext. 3534.

RIMS - (2) 14" five holes from Olds. Ben, Ext. 3392 or 3415.

67 MERCEDES BENZ - 250S, 4 spd, excel cond, excel gas mileage. \$2,000. Gail, 878-4664 after 5.

74 COMET - 2 dr, 6 cyl, p/s, auto trans, Michelin radials, economical, excel cond. \$2250. 283-6338 after 4.

67 CHRYSLER NEWPORT - running cond, needs work and tires. \$150. John, Ext. 3292.

78 TOYOTA COROLLA - 5 spd, rad. tires, radio, 12,000 highway miles, excel cond. Ext. 2337.

76 DODGE - Van Brougham design, sleeps 4, refrig, stove, oven, heat, toilet, 8 cyl, 45,000 mi. \$6,950. Harriet, Ext. 4853.

77 VW RABBIT - auto, a/c, am/fm radio, elec. defogger, radials, 33 MPG, excel cond. Helen, 666-0886.

SNOW TIRES - Goodyear H78-15 w/Chrysler rims, \$30/pair. 878-0222.

SNOW TIRES - pair of studded G78-14 mounted on Plymouth wheels, very good cond, \$30/pr; (1) snow tire H78-15, excel cond, almost new. \$10. Harry, Ext. 3783.

72 PINTO - runs well but needs work, w/6 tires. \$450. Ext. 4247 or 928-0297.

74 CADILLAC - drk blue, white landau top, fully equipped, excel cond. \$3,800. 878-8008 after 6.

SNOWS - (2) L78-15 w/w's, very good. \$30/pr. Dick, Ext. 2486.

72 INTERNATIONAL - 4 wh dr, auto, extra beach tires, excel cond. \$2500. 878-2545.

73 DODGE DART - Swinger, 2 dr, 6 cyl, p/s, a/c, front disc brakes, 52,000 mi, \$1650. Les, Ext. 4074.

SHOP SERVICE MANUAL - for 1974 Volvo, \$7; tires (1) Michelin 165-SR15; (1) Goodyear 6.85-S15, very good cond. \$10. ea; Rims for 140 series Volvo w/tires (2) for \$15. Joe Henriques, Ext. 4439.

78 CHEVETTE - Scooter, auto trans, r/w defog, 2 snow tires w/rims, low mileage, leaving country, must sell. \$3200. Peggy, Ext. 2913.

SNOW TIRES - (2) A78-13 used 1/2 season, 1 3/2 thread. \$45. or best offer. Marty, Ext. 3941 or 3942.

RIMS - (3) Chevy, 15 1/2" dia. 751-3062.

C-4 AUTO TRANS - B&M built fits small block Ford and holeshot converter. \$100. takes both. Chris, Ext. 4612 or 281-7379.

74 GREMLIN - std shift, 2 dr, excel gas mileage, 45,000 mi, perfect cond, mounted snow tires, make offer, roof rack and luggage bag. Ext. 2967 or 821-9072.

UTILITY BODY - for Ford Pickup. \$550. for more info, Bob, 698-3591 after 5.

72 CADILLAC - sedan-Deville, fully equipped, vinyl roof, leather int, many extras, low mileage, excel cond. \$2,600. 472-0086.

50 DESOTO - 6 cyl, 4 dr, sedan, 91,000 mi, running cond, orig. owner. 281-7620 eves.

TIRES - (2) H78-15 Kelly Springfield belted on Ford rims, never used, \$60; 15" Ford Deluxe wheel covers, \$60. Tom, 289-2507.

69 CORVETTE - T-top, 4 spd, p/s, p/d/b, p/w, 350/350. Rich, Ext. 3572 or 277-1129 eves.

75 PONTIAC - LeMans, p/s, p/b, am/fm, 6 cyl, excel cond, radials. Gale, Ext. 4453 or 725-2415 eves.

78 KAWASAKI - KZ650, like new, 700 miles, \$1,700. or best offer. Mike, 727-8929 after 6.

73 PONTIAC - Ventura, 350, auto, p/s, p/b, radio, good cond. \$1500. Ralph, Ext. 2021 or 727-7761.

73 PINTO - sdn, auto, 39,000 miles, good tires, good body. \$900. Frank, Ext. 4581 or 588-3565.

77 PEUGOT - Moped, Model 103, \$395; Snow tires, (2) like new A78-13 on rims for Chevy Vega, \$45. Mele, Ext. 2451.

73 DATSUN - 610 S.W., for parts, accident damaged, 33K orig. miles. \$200. or best offer. Lou, Ext. 3365.

CHEVY PARTS - 6 cyl eng. and auto. trans., bucket seats, 4:11 posi-rear w/14" mags, high-perf. parts for 396/427 engines. Mike, 363-6673.

68 BIG FORD WAGON - rusty but good running cond, many new parts. \$500. Lawrence, Ext. 4701 or 472-0721.

69 PLYMOUTH - Custom Suburban, station wagon, auto, p/s, p/b, am/fm 8 trk, new exhaust sys, new front brakes and battery, 60,000 mi, good cond. \$650. 475-7988.

71 CHEVROLET - 4 dr, 8 cyl, p/s, p/b, runs good, \$450. 281-4541 after 5.

70 OPEL - GT 1900, 4 spd, good running, clean, lots of extras. \$1,000. Don, Ext. 2819 or 587-5703.

74 PEUGEOT - 504, std, excel cond, new radials, plus 2 snows w/studs. Blaupunkt, am/fm radio, \$3,600. Ext. 2921 or 728-9106.

67 PONTIAC - Conv, Bonne, runs good, cond good. \$325. John, Ext. 4243 or 924-3492.

68 CHEVELLE WAGON - V8, auto, p/s, \$250. Ext. 4045 or 289-5770 after 6.

73 DART SWINGER - V8, auto, p/s, new tires, 45,000 mi, excel cond. Sal, Ext. 2460 or 744-9822.

72 BUICK SPORTWAGON - p/s, air, good cond. J. Pontieri, 475-9131.

71 FORD GALAXIE - 500 Sedan, clean, good mechanical, many new parts, 70,000 miles, some rust, \$650. Jack, Ext. 4054, 3558 or 289-1989 eves.

RIMS - (2) 14" Ford, \$5. Mike Tesla, Ext. 3284.

78 THUNDERBIRD - Maroon, auto, p/s, p/b, am/fm radio, st'l belted radials, w/w, A-1 cond, in and out, 12,000 miles. \$6,800. Firm. 363-2963 after 6.

67 BUICK RIVIERA - 2 dr sedan, excel cond. \$400. A. Gal, Ext. 3791.

Boats & Marine Supplies

LAPSTRAKE BOAT - 19', 65 HP Mercury motor, elec start, good cond. Steve, 499-8377.

1966 CHRIS-CRAFT - 25' Cavalier inboard-outboard eng, sleeps 4, extras incl, excel cond. 653-4938.

FREE SAILBOAT - 16' snipe, poor cond, incl, mast, boom, rudder, no sails. Ralph, Ext. 3649.

1965 TROJAN - hard top cruiser, sleeps 4, galley, head, 185 HP, gray, rebuilt 1977. Kubec, 734-7527.

Miscellaneous

LARGE YARD SALE - 10/28 from 9:30 to 4; raindate 10/29, off Route 112, Westside 49 Southaven, Medford.

GARAGE SALE - Oct. 28, 9 to 5. 110 E. Woodside Ave, Patchogue. Toys, household items, end tables.

GARAGE SALE - Oct. 28 and 29th, 9:30 am to 5 pm. 71 Dare Rd. opp. Hope Lutheran Church, Selden. Baby items, furniture, bikes, glassware, toys, many brand new.

GARAGE SALE - baby and toddler clothing, jackets, snowsuits, toys, lighting fixtures, etc. Oct. 27, 28, 29th from 10 am to 4 pm. 95 Swan Lake Drive, Patchogue. Rain Date Nov. 4 and 5th.

TALENT & TREASURE AUCTION - Sayville Methodist Church (Main St. Sayville) Oct. 28 from 10 to 4 pm. Viewing from 9 am to 10 am.

TICKETS - (2) BERA Opera tickets for AIDA at the Met, Sat. Eve Dec., 2, Arnie, Ext. 2606 or 2449.

GE REFRIG - 21 cu. ft., 1 yr. old. \$375. John, Ext. 2070, 331-3076.

FIREPLACE ACCESSORY - 5 tube fp "heaterjet," deluxe Model #1611. Orig. cost, \$25, sell for \$15. like new, used 2 times. Laffer, Ext. 3354.

WATER PUMP - shallow jet type, 1/2 HP, Sears, used 18 mo., excel cond, \$35. cost \$129. George, Ext. 4241.

LIQUOR CABINET - oriental style, ebony color, \$20; pink dbl basin kitchen sink, cast iron, \$15. 363-6845 after 6.

WASHING MACHINE - Sears heavy duty, \$150; electric clothes dryer, Sears, 6 cu. ft. capacity, \$100. both in excel cond. Alan, Ext. 2252 or 732-1610.

TAPE DECK - stereo 8 trk recorder/player, all deluxe features, top-of-the-line model used approx. 10 times, in new cond, orig cost \$180. sell for \$85. 732-5829.

HI-INTENSITY LAMP - \$5; 3 1/2"x24" wooden frame mirror, \$10; 40x13 1/2" cabbage slicer, \$35; 17x15 rd basket, \$10; old scale, \$1; 24x1 1/4" Wheeling zinc wash tub, \$7. Ext. 3327.

GIRL'S COAT - navy blue, size 14, wool and nylon, excel cond, \$5; boy's sport jacket, traditional styling, small blue & white plaid, size 16, very good cond, \$5. 751-3551.

GAS STOVE - Caloric bottle gas 30" black porcelain w/chrome trim, 4 burner, oven and broiler. 475-1545. PRESSURE COOKER/CANNER - Sears, used 4 times, instructions incl. \$35. Joe, Ext. 2251.

SLIDE PROJECTOR - 35 mm, Bell and Howell 550, \$20; illustrated World Encyclopedia, 22 volumes, good cond, \$25. Ext. 3486 or 744-0986 after 6.

WASHING MACHINE - \$50; drop leaf table, \$25; belt vibrator mach, \$25; 5 drawer dresser, \$15; rug 12x15, \$10. Steve, 499-8377.

OLD WASHSTAND - gold on white antique finish, \$80; antique cast iron shoe repair stand, \$15; new ice bucket, \$4; elec. ice cream maker, \$8. 589-2128.

REFRIG - Frigidaire, white roll out shelves, freezer on top, good cond. \$40. 289-1754.

SOFA - Simmons hide-a-bed, innerspring mattress, sleeps 2, good cond, make reasonable offer; draperies, fiberglass, double width, 2 different pairs, green print, curtains to match, reasonable. Ann, 286-2280. 2 SMALL SOFAS - with 2 pairs of slip covers, \$30 ea. 289-1755.

SKIS - 185 cm Fischer, \$10; 175 cm like new Volkyl skis, \$60; Tyrolia jr. bindings, \$25. Frank, Ext. 3898.

ZEBRA FINCHES - home raised 5 weeks old birds, good for pets or breeding stock. Rick, 589-2759.

DANISH SOFA - \$15; corner table, \$10; 2 table lamps, \$3. ea, good cond; light fixture w/attachment, \$3; almost new diaper change, \$8; baby stroller, big very comfortable, \$8. 744-9498.

CB - General MC-6, base station or mobile, 23 ch plus PA; bullhorn incl, like new. \$30. Walt, Ext. 4504.

SINGER SEWING MACHINE - in cabinet, does ornamental stitching, good cond. \$75. Peggy, Ext. 2913.

WINDOW - used, fits opening approx. 43"H x 30"W, new costs, \$55. asking \$20. Ron, Ext. 4449 or 751-8403 after 6.

ROLLAWAY BED - w/mattress \$12; 2 iron gould upright chair frames, needs restringing, \$5/ea; Mahogany glass front bookshelves 39 1/2"x58" tall. 751-3062.

SKI BOOTS - Italian, Formula 1, like new, size 9 1/2. \$15. Ext. 4472.

WINTER COAT - black borgana, gray collar/cuffs, size 16, never been worn, \$75; baby stroller, deluxe, chrome, good cond, \$20. J. Weber, Ext. 2003 or 472-0086.

BABY ITEMS - rocker bassinet white w/wicker inserts, \$25; porta-crib, wood, 3 adjustments, \$30. Chris, Ext. 4612 or 281-7379.

HEATER - 30 gallon gas hot water heater, used, best offer; used oil burner motor and hot air fan, best offer. Tom, 289-2507.

VW ROOF RACK - and 2 burner coleman gas stove. Ext. 3080, Bob Wieser.

SKIS - Metal Austrian Grand Prix binding, poles and boots, size 9, \$150; Typewriter, Adler manual, \$75; Rolleiflex camera, twin lens, \$160. Mike, Ext. 2575.

DOUBLE WINDOW - fits opening 67 1/2"x38 1/2", excel cond. \$125. Bob, Ext. 3309.

PIANO - Baldwin Hamilton Studio, excel cond. Ext. 3570 or 744-9746 after 6.

COLONIAL BDRM SET - 5 pc light pine, queen size bed, (4 poster) and in excel cond. Karen, Ext. 3689 or 281-8016 after 6.

RUG - Red mottled, 12'x18', excel cond. Rose, 289-3896.

AUTOMATIC WASHER - old Maytag, runs fine, \$35; Hoover portable, semi-auto spir-washer, good for apt. without hook up. \$25. Don, Ext. 7925.

HIGH FIDELITY MAGAZINE - complete 1962 thru 1971, make an offer. Winsche, Ext. 2932 or 286-0517.

EVERGREENS - fir and spruce (Healthy and fast growing trees) 22" to 40" tall, dig your own: Bargain - 2 for \$7. 727-1617.

TOY CHEST - for books and toys, 48L x 36H, \$25; Desk 36L, 30H, 24D, \$15. 475-8971 after 6.

STARFIRE - Omni CB antenna, used one year, son wants to upgrade. \$25. Joe Curtiss, Ext. 4641.

MINOLTA SR 201 - F1.7 plus 135 mm F35, filters, flash, tote bag. 286-0626.

WOMEN'S WINTER CLOTHES - skirts, sweaters, slacks, etc. Sizes 10, 12 and 14, long, like new, some designer. Janet Whitehead, Ext. 2872.

DOUBLE HUNG SASH - and frames (4) for masonry walls (can be adapted to wood frame structure) 37 1/4" w x 41" h, \$15 ea. - 4/\$55. Pat, Ext. 4519.

KITCHEN TABLE - w/4 chairs; Danish twin bed bedrm set; corner hutch; 2 recliners; 2 table lamps. 744-9822.

SOFA - 90" modern, black/chrome trim, very good cond, \$95; 1971 Torino Shop Manual, \$5. 744-5553.

HAIR DRYER - Kenmore portable, w/bonnet, excel cond. \$10. 286-3742.

COUCH - Antique, red damask, 7' w/full down cushion. \$250. 286-1152.

CHAIN SAW - Homelite XL w/extra blade and chain, Manual and Safe-T-Tip. Al Campbell, Ext. 3354.

LOVE SEAT - and Ottoman, excel cond, black nauga-hyde. \$100. 588-4759.

TRUMPET - Buscher Aristocrat, w/mutes, brushes, valve protector, etc. excel cond. Bill, 878-0797.

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

EAST MORICHES - 8 rm house w/detached 2 car garage, 1 1/2 baths, w/w carpeting, attic and bsmt, black top driveway, 1 mi from Bay, an older house in a quiet neighborhood, low taxes. 878-2857.

LAKE GROVE - building lot, 100 x 120. \$9,500. 584-6154 eves.

SETAUKET - walk to University, custom built cedar ranch, wooded 1/2 acre, 3 bdrms, 2 baths, family rm, fp, w/w carpet, fin bsmt, many extras. Hi-60's. 751-6508.

BAY SHORE - 2 bdrm ranch, 60' x 120', gas fired heat and hot water, garage, laundry rm, thermopane windows and screens, good location. Gary, Ext. 2501 or 666-6511 after 6.

CALVERTON - 3 bdrm ranch, oil fired heat and water, storms and screens, fin bsmt, w/bathrm and kit, 1 acre property. \$34,000. 727-9058.

SHOREHAM VILLAGE - lg Clarendon custom Colonial, 4 bdrms, 2 1/2 baths, den w/fp, eik, formal d/r, 1 1/4 wooded acre, deck, walk to tennis, beach, country clubs. \$80,000 (reduced). 744-1935.

ROCKY POINT - moving out of state, many extras, 4 bdrm Colonial, eik, 2 1/2 baths, fp, w/w carpeting, wood deck, 1/2 acre, priv beach. 744-1156.

MATTITUCK - secluded 3 bdrm, 2 bath ranch in priv wooded area w/deeded beach rights, w/w carpeting, draperies, appl, fam rm w/fp, low taxes. Ext. 3559 or 298-4592 for appointment.

E. PATCHOGUE - must sell, 3 1/2 yr custom built oversized 9 rm wide ranch, prime area, 1/2 bdrms, 2 1/2 baths, huge eik, d/r, 2 dens, 2 garages, appl, carpeting, beautifully landscaped. 289-0443.

SOUND BEACH - 2 bdrm house, winterized, priv beach, fieldstone fp, appl, avail immed. \$19,900. Ext. 3570 or 744-9746 after 6.

SHOREHAM - Colonial, 4 bdrm, fam rm w/fp, 2 1/2 baths, laundry rm, hardwood floor, d/r, eik, full bsmt, 2 car garage, appl, close to school, quiet court. \$57,000. Ext. 3691 or 821-9365.

BELLPORT - 3 bdrms, l/r, 12' x 28' fam rm, eik, carpet throughout, 3 1/2 yrs old, wooded lot. 286-8789.

For Rent

SHIRLEY - furnished 2 bdrm, l/r, den. \$275/mo + util. 875-2545.

MILLER PLACE - 4 bdrm Colonial house, furnished, avail for 1 yr lease. Data and price negotiable. 928-6032.

MIDDLE ISLAND - 1 bdrm, l/r, small kit, dining area, central air and heat, dishwasher, upstairs corner balcony, w/w carpet, tennis courts, swimming pool. Bob, Ext. 3565 or 924-0664 after 5.

MASTIC - 15 min from Lab, 8 rms, fp, 1 1/2 baths, fenced in. \$350/mo. 281-6116.

STONY BROOK - available 12/1/78 to 8/15/79 (Christian Ave) fully furnished Colonial, 3 bdrm, d/r, l/r, bsmt, garage, country