BROOKHAVEN BULLETIN
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BROOKHAVEN NATIONAL LABORATORY

Keeping Computers In Line

Over the past decade computers have become cheaper and smaller and, consequently, almost everybody at the Lab has access to one. No longer is scientific computation done only on the big hardware; in many cases, mini computers are more than adequate.

But the proliferation of individual computers can lead to a hodgepodge of assorted machinery and programs, without regard to satisfying the computing needs of the Laboratory as a whole, or providing the best solution to the problems of groups and departments.

To ride herd on computer-related matters, a Computer Policy Committee has been established. Chaired by Marshall Newton (Chemistry), the committee will report to Associate Director Martin Blume. In an upcoming issue of a new computing newsletter, Newton notes that "It is of great importance to establish equitable policies for allocation of the resources of the Laboratory's shared computational facilities and for recovery of the costs associated with their use. Policies regarding shared facilities will help to redefine the concept of a 'central scientific computing facility' as we emerge into an era increasingly characterized by networks of distributed computing capabilities."

The committee will also address such issues as the standardization of hardware and software, new acquisitions and maintenance. The members will evaluate on an annual basis, the Lab's computing requirements for research and support activities. Also appointed to the committee for a term of three years were Robert Bacharach (MIS), James Guppy (DNE), Paul Michael (DEE), and T. Laurence Trueman (Physics). Ronald Peierls (Applied Math) is an ex-officio member.

In keeping with the new approach to computing policy at the Lab, the Applied Math Department has reorganized, and two groups, in particular, will provide staff assistance to the committee. The new groups are "Planning and Development" under Arnold Peskin and "Computer Coordination" headed by Kurt Fuchel.

In the past, the principal role of Applied Math was to operate the large computers. They will still do this, but now they are becoming increasingly involved in planning and development for scientific computing throughout the Lab. AMD staff will be available for consultation on all computer matters; for instance, how to locate information on types and cost of computing equipment, and advice on saving money by accessing programs via networks, as an alternative to purchase.

Mort Rosen

The Computer Policy Committee: (from left) T. Laurence Trueman, James Guppy, Paul Michael, Marshall Newton, Robert Bacharach, Ronald Peierls.

As an aid in coordinating these matters, the CSCF Newsletter is being expanded. No longer will this publication deal only with CSCF news, it will be dedicated to a Lab-wide audience, and has been renamed the BNL Computing Newsletter. Kurt Fuchel will edit the newsletter and is looking for input from all computer users. The first issue is due next week.

Ron Peierls, Applied Math chairman, says that software is rapidly becoming more important than hardware, and that increasing the use of modern computer software tools is another goal of his department. To this end, AMD will be prepared to offer courses in new languages and techniques.

To develop the best computing policy for the Lab, the committee must know the needs of users, and urges them to speak up. Users may communicate their needs to department and division administrators and the Computer Coordination group in AMD. The committee will maintain close contact with these channels, as well as with the VAX Users Group and the Graphics Users Group.

Mort Rosen

Mariano Estoque

A Visitor's View
Mariano Estoque

Mariano Estoque became a meteorologist because it was the only way he could come to the United States. "In the Philippines, all the meteorologists were Jesuits," he said. "But after the Second World War, because of efforts to nationalize, there was an examination to choose local people to be sent to the U.S. to be trained as meteorologists. I had just graduated with a bachelor's degree in engineering from the University of the Philippines, but this was a chance for me to see the U.S."

Estoque passed the rigorous exam and was selected as one of the 30 sent to American universities. That's how he got started in the field. Today he is a professor of meteorology at the University of Miami.

Estoque was at BNL this week, attending the coastal meteorology workshop. He recalled his first experiences in this country, in 1947. "I was part of the group sent to New York University," he said. "I remember my first night in a hotel room, trying to figure out the bed. I kept looking for the blanket, not realizing it was on the bed and that I had to get under it. In the Philippines, my family was poor, and we slept on mats rolled out on the floor."

He also spoke of waiting in a restaurant, wondering why no one would serve the group, and then discovering they were in a serve-yourself place called a cafeteria.

After three years at NYU, Estoque returned to the Philippines with a doctorate in meteorology, the first in his country to hold that degree. But the old-timers had all the best jobs, and he couldn't find anything that paid enough to support his new wife, his parents and his five younger brothers and sisters.

Once again, he left for the United States. He worked as a researcher for three years at Johns Hopkins and then another three years at the University of Chicago, all the while sending money back home to put his brothers and sisters through school. After a brief excursion at McGill University in Canada, he returned to the U.S. on a permanent resident visa and went to Bedford, Massachusetts, to work for the Air Force.

It was in Bedford that Estoque began to focus on the meteorology of coastal areas, studying sea breezes, turbulence and pollution. He was the first to do computer modeling of the boundary layer and sea breezes. "At the time, modeling was being done on other atmospheric phenomena like cyclones, but no one had tried it for small scale meteorology," he said.

After a few years of New England cold, however, Estoque decided to relocate again, this time to Hawaii. He was appointed a professor of meteorology at the University of Hawaii.

Hawaii was like home. The climate was tropical, and the Filipino community was closely tied. "It was a place of opportunity for me," said Estoque. "There I could have run for governor."

But Estoque stayed only six years. "The cost of living was too high," he said. "I owned a house on lease land. In 55 years the lease would be up. I had nothing to pass on to my children."

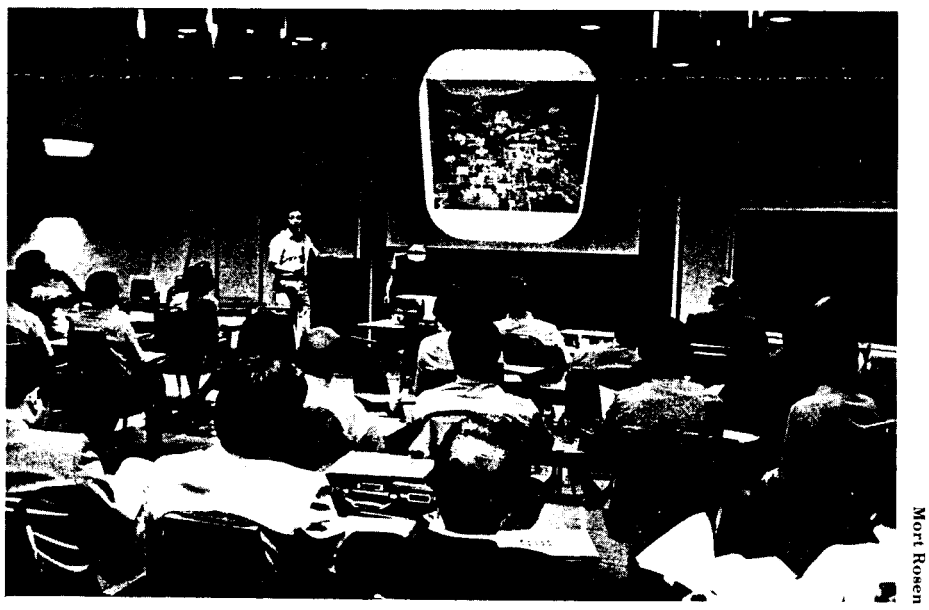
The youngest of his four children was born in Hawaii. The others trace his travels — one in New York, one in Illinois, another in Massachusetts.

Family is important to Estoque. "In the Philippines, families are very close," he said. "If I could live my life over again, I would move here later, after my children had been raised with traditional Filipino values — a deeper sense of family, more respect for elders, greater ambition. Sure the U.S. is a land of plenty, but mostly in terms of material things and professional opportunities."

Through the years, Estoque has maintained close ties with his family back in the Philippines. Most recently he was there three years ago to be honored by President Marcos as an outstanding Filipino scientist.

Right now, however, home is Miami, where he and his family have been for 16 years. A few relatives live close by, the climate is good, and he grows favorite Filipino vegetables like bitter melon. "My children don't eat it, though. They're American."

—Mona S. Rowe



Mort Rosen

The coastal zones of the U.S. are drawing more and more interest today as development of off-shore resources and coastal sitings of nuclear and conventional power plants increase. Evaluating the impact of these activities on human health and marine life requires a fuller understanding of coastal processes than is currently available. Despite this, there has never been a coordinated national research program focused on the coastal zone. The Workshop on Coastal Atmospheric Transport Processes held at BNL July 13-15 was a first step in rectifying this situation. Organized by BNL meteorologist S. SethuRaman, the workshop was devoted to reviewing the current state of knowledge of atmospheric processes in the coastal land-sea interface region, identifying needs of agencies and organizations concerned with coastal zone activities and recommending research programs to meet those needs. The workshop opened with a welcome from BNL Associate Director Martin Blume (above) to the 60 attending meteorologists and oceanographers. Paul Michael, head of DEE's Atmospheric Sciences Division, introduced the keynote speaker, Roger Pielke, Colorado State University. The balance of the workshop centered around panel discussions of subjects related to the main topic, including Atmospheric Mesoscale Processes, Data Base Acquisition and Analysis and Marine Mesoscale Processes. The workshop was jointly sponsored by The American Meteorological Society, BNL and the Department of Energy.

Speaking Out

Reporter: Derek McCalmont
Photographer: Doug Humphrey

One of the most controversial issues of the last ten years has been the Equal Rights Amendment. No other single piece of legislation has caused so many divisions and new alliances between men and women at all levels of government and in the general public. Anti-ERA groups scored a major victory on June 30 when the time limit for ratification of the ERA expired without the necessary 38 states having passed the bill. Here is what some employees think about this issue.

Irma Montanez (D.O.) — I'm a little upset about it. I wish it would have passed. I think that when they make it more explicit it will pass. There's been a lot of misinterpretation.

Sheree Flippen (Graphic Arts) — I don't have any feelings towards it. I just look at my rights as that I work like anybody else. I don't think I'm being cheated at all. You get as far as you can by what you know. It's not a question of who passes what law.

Eugene Tombler (AGS) — I hate to see it, I'm very much for women. Many years ago when I was at RCA Institutes, I became friendly with one woman who did better than just about anybody I could think of. She had a very hard time getting a job. I've always thought that was unfair. I'd like to see them get equal rights.

Sheryl Golden (AUI) — It's really a shame that women are in the majority in terms of numbers and yet they don't band together for something that's important to them.

Larry Johnson (Grounds) — I'm sorry to see it die. Women, without 'em we're nothing, they got just as much right in this world as we do baby.

Marge Stoeckel (Fiscal) — I've never been for the Equal Rights Amendment. I am a woman, I want to remain a woman, and I like having men open doors for me. The only time I want equal rights is if I do the same exact job [as a man], then I want the same exact pay.

Deborah Appio (AUI) — I think it's unfortunate, and I think it's only a dead issue temporarily. I hope it will be back. I feel that a majority of women aren't strong supporters of it, and that's why it was defeated, not because of the men.

Bruce Brunschwig (Chemistry) — I'm sorry that it died. I think it was sort of inevitable given the political climate.

George Taylor (Applied Math) — I think it was a shame it was defeated. I think it was a move to keep women at home — keep them at a lower level, as second class citizens.

Stephen Feldberg (DEE) — I think it's ridiculous. I don't understand what the objections were. Unfortunately Phyllis Schlafly is a lot smarter than the people who were for it.

Reports Available

The following reports are now available to the Laboratory staff and to affiliates of the DOE, AUI and NRC. Others may purchase the reports from the National Technical Information Service, U.S. Dept. of Commerce, 5285 Port Royal Rd., Springfield, VA 22161. Staff members should call Ext. 5068.

BNL-51039
Cross Classification of Census Data for Use in Estimating Residential Heating Demands. R.G. Tessmer, Jr.

BNL-51350
The Influence of Solar Energy Deployment on Long-Range Transport Air Pollution. F.W. Lipfert, et al

BNL-51392
The Assessment of Industrial Conservation Policies Using Alternative Models of Industrial Energy Use. D.R. Fromholzer, et al

BNL-51398
Automated Nutrient Analyses in Seawater. T.E. Whitledge, et al

BNL-51427
Proceedings of the Coal Water Fuel Technology Workshop. P. Marnell

BNL-51437
A Technology Assessment of Solar Energy Systems: Northeastern Regional Biomass Scenario Assessment. W.L. Graves, et al

BNL-51440
Report on the U.S. Program of Technical Assistance to Safeguards of the International Atomic Energy Agency (POTAS). Intl. Safeguards Project Office

BNL-51443
Vols. I, II
III, IV
ISABELLE Proceedings of the 1981 Summer Workshop. N. Baggett, et al

BNL-51456
Emissions and Thermal Efficiency Evaluation at a Flue Gas Condensing Economizer. R.N. Dietz, et al

BNL-51464
Economic Profiles of Major Petroleum Consuming Countries. A. Hermelee, et al

BNL-51475
Proceedings of the Fifth DOE Solar Photochemistry Research Conference. J. Fajer

BNL-51483
Flash Hydropyrolysis of Coal. Quarterly Report #14 Oct. 1, 1980 - Mar. 31, 1981. M. Steinberg, et al

BNL-51487
Small-Scale Costs of Hydrogen Derived from Ammonia. G. Strickland

Tips For Tomorrow

At 11 a.m. tomorrow, Picnic '82, BNL's long-awaited 35th anniversary celebration, gets under way. For those who will be participating in the festivities, here is some important information:

- Absolutely no one will be admitted without a ticket. Tickets have been sold out and will not be available at the gate.
- In exchange for a ticket, each picnicker's hand will be stamped to ensure access to all of the fun and food at Picnic '82. So make sure that all family members (no matter how small) are stamped by the ticket taker.
- Upon entering the Lab site, security personnel will provide parking instructions.
- Bring the "extras" necessary for your group's comfort — blankets, chairs, tables, swim suits for pool and sprinkler, etc.
- Beer, soda and cotton candy will be available all day, but hot dogs, hamburgers, barbequed chicken, corn-on-the-cob, coleslaw, potato & macaroni salads and watermelon will be served only from noon to 4 p.m.
- Parade participants should line up at 10:45 a.m. on Brookhaven Avenue by the Personnel office, Bldg. 185.
- The rain date for Picnic'82 is Sunday, July 18. Any postponement will be announced on local radio stations early Saturday morning.

A Clarification

In the chart of Energy Conservation Statistics that accompanied last week's story, "BNL Faces The Energy Challenge," the figures given for electric power reflect kilowatt hours (kWh), rather than kilowatts (kW), as indicated.

The Fascinating Forties

As the Lab celebrates its 35th anniversary, it is interesting to reflect on just how much things have changed since the "good old days." These items were gleaned from early issues of Isotopics and the Bulletin Board:

August 1947 — The Lindenmere, a hotel in Center Moriches, was frequented by BNL'ers. After some visiting scientists and staff picknicked there, it was noted that "the Lindenmere lawn, which borders Moriches Bay, had been heavily sprayed with DDT on Monday, so that there were no insects to interfere with the evening's enjoyment."

October-November 1947 — This item appeared under the head "Debits Vs. Credits." Perhaps it should now be retitled "You've Come A Long Way Baby." (The names have been changed to protect the innocent.)

A few weeks ago Mrs. X, wife of a Lab employee, decided to earn a few dollars. She heard the telephone company was in need of help. She immediately called Babylon (telephone charge) and made an appointment for the following day. Her husband didn't use the car that day because she had to drive to Babylon, didn't she? (gasoline and oil).

After a short interview she was selected. She had to return the following day to get new telephone directories (more gasoline and oil). You see she was assigned to deliver new directories and collect old ones.

On her way back from Babylon she drove through Bay Shore where she saw a perfectly stunning slack suit in one of the shop windows. The temptation was great — here she was about to earn some money — why not get it now and save a trip back there. She had it all figured out that she'd be earning $12.48 per day. Did she buy the suit? Yes, she did.

She was now ready to go to work. She had to have the car, didn't she? (More gasoline and oil). At the end of her second day she came home completely exhausted. What would you good husbands do at a time like this? That's exactly what her husband did. He took her out to dinner ($5.00).

During her tour of duty she was given a cute, playful tomcat. To date, he has ripped two pair of nylon curtains ($10.00). Mrs. X is now at home but she says it was fun while it lasted. Her gross income was $18.78. She's charging it to experience. Mr. X is $31.72 in the red.

August 1948 — In the classified ads for real estate, a six-room house in Smithtown, on 1-1/4 acres with a two-car garage, was $11,500. Seven rooms in Selden went for the same price. In East Moriches, 9-1/2 rooms were offered for $8,500.

October 1948 — Transplants and other medical breakthroughs have outdated this safety reminder: "Be careful! Remember there are no spare parts for the human body."

October 1948 — BERA offered discount wares back then. One offer is a reminder that some of today's expected comforts were once luxuries. Five models of car heaters were available to BNL'ers at prices ranging from $11.46 to $23.40. Two models also had defrosters.

March 1949 — Since there were few televisions around in 1948, most people missed the World Series that year. But six months later, Lab employees were invited to view a 45-minute film recapping the games' highlights at the large theater after work.

August 1949 — Although crowds may be a problem at the beaches today, there were so few people then that some beaches had no lifeguards. To protect employees, BERA made torpedos and ring buoys available to swimming parties.

The Lindenmere Hotel in 1947.

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Equipment Demo

IBM Instruments will hold an open house on Wednesday, July 21, from 8:30 a.m.—5 p.m., in Room B, Berkner Hall. They will be showing liquid chromatography, electrochemical instrumentation, a computer system, a process analyzer, a digital plotter. Those who wish to stay for lunch should RSVP by July 19 to Sue Cali, (203) 796-2420.

Swimming Pool

Summer Schedule

Monday through Thursday
11:00 am to 1:30 pm employees only
1:30 pm to 3:00 pm children's

3:00 pm to 9:30 pm employees/families/guests

Friday
11:00 am to 1:30 pm employees only
1:30 pm to 3:00 pm children's lessons
3:00 pm to 4:30 pm children's pool special
4:30 pm to 9:30 pm employees/families/guests

Saturday and Sunday
1:00 pm to 6:00 pm employees/families/guests

Entrance Fees

Daily Admissions:
$1.25 employee
$1.25 family member
$1.75 guest

Season Tickets: (valid to September 5) $23.00 individual
$33.00 family

Season tickets are sold at the pool during open hours to employees and immediate family members.

Arrivals & Departures

Arrivals

Matthew J. Jesaitis .... Applied Math.
Benjamin M. Turner ..... Plant Engrg.

Departures

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

Michael W. Torelli ..... Medical
Alexander Wolf ..... Physics

Sign Up Now

On Saturday, August 14, the Afro-American Culture Club is sponsoring an international food picnic. In keeping with the theme, "Foods Of All Nations," the club is inviting all who plan to attend the picnic to bring a specialty dish, sufficient for your party plus one additional person. For ease of planning, please call Mary Durham, Ext. 7982, by July 23, to let her know what you will be bringing. The picnic is free, and all BNL employees, their families and friends are invited to attend.

In Appreciation

I wish to thank all my friends at BNL for their cards and sympathy after my wife's death.

—Howard Bell and family

Golf

The next BGA tournament will be held on Wednesday, July 28 at the Swan Lake Golf Club in Manorville. Tee off times may be obtained by contacting Les Lawrence Ext. 4107, Bldg. 515. There will be an entry fee of $1 for league members and $2 for non-league members. Entry fees must be received by Monday, July 26. All BGA tournaments are open to employees, retired employees, and spouses.

A total of 29 golfers played in the June tournament held at the Harbor Hills Golf Course. Mike Zguris, Jr. won the low gross competition with a 74 and George Speidell won the low net competition with a 72. Other winners were: George Korhut, low gross front nine (41), Les Lawrence, low gross back nine (40), Ron Webster, low net front nine (37), and George Kuzmack, low net back nine (35). The long drive competition was won by Mike Zguris, Jr., and Bob Glasmann won closest to the pin.

Cast Call

Try-outs for the Theater Group's October production of "The Odd Couple" will be held in the north room of the Center as follows:

Tuesday, July 20, 8—10 p.m.
Wednesday, July 21, 5:30—7:30 p.m.
Monday, July 26, 5:30—7:30 p.m.
Thursday, July 29, 8—10 p.m.

In addition to the major roles of Oscar and Felix, tryouts will be held for Oscar's poker-playing buddies (4 men) and for two English sisters.

To see a script, call Bob Kinsey, Ext. 5096, or Penny Baggett, Ext. 5154. If you would prefer to work backstage, call producer Lori Eagle, 286-8407.

The next meeting of the Theater Group will follow the tryouts on July 21 at 8 p.m. in the Center.

Cafeteria Menu

Week Ending July 23, 1982

Monday, July 19		
Spinach egg drop soup	(cup)	.60
	(bowl)	.70
Glazed ham steak & 1 veg.		1.85
BBQ meatloaf & 1 veg.		1.80
Hot Deli: Hot pastrami	(bread)	1.80
	(roll)	1.90
Tuesday, July 20		
Chicken & rice soup	(cup)	.60
	(bowl)	.70
Pork & cabbage crisp & 1 veg.		1.85
Batter-fried steak & 1 veg.		1.95
Hot Deli: Roasted top round of beef	(bread)	1.90
	(roll)	2.00
Wednesday, July 21		
Black-eyed pea soup	(cup)	.60
	(bowl)	.70
Yankee pot roast & 1 veg.		1.95
Turkey à la king on rice		1.80
Hot Deli: Knockwurst & kraut on rye		1.80
Thursday, July 22		
Minestrone soup	(cup)	.60
	(bowl)	.70
Chinese pepper steak on rice		1.95
Stuffed bell pepper & veg.		1.80
Hot Deli: Monte Cristo		1.85
Friday, July 23		
Manhattan clam chowder	(cup)	.65
	(bowl)	.75
Western-style chili on rice		1.80
Eggplant Parmesan & 1 veg.		1.75
Hot Deli: Veal pattie & pepper hero		1.90

Deadline Today!

Today is the last day that applications will be accepted for the Craft Apprenticeship Training Program. There are two apprentice openings in the machinist trade and two in refrigeration and air conditioning. Applications and further information are available at the Personnel Office.

BOWLING CHAMPS

The Light Source came out on top of the Red-Green League with members (from left) John Bohenek, Charlie Neuls, Dick Wiseman, and Al Masy. Norman Fewell and Ken Batchelor, also members, are not pictured.

The Lickety-Splits were the winners of the Pink League. They are (from left) April Donegain, Helen Keeley, Mary-Grace Meier and Debbie Johnson.

The Dips, with members (from left) Jean Sells, Bill Sells, Bill Lebitski, Renee Flack, Howie Bell and Pat Lebitski were winners of the White League.

The Purple League was won by the Draftecs, with team members (from left) Irene Sperry, Al Pinelli, Joyce Pinelli and Ed Sperry.

—photos by Humphrey

Classified Advertisements

Autos & Auto Supplies

79 HONDA - CM400T, 2,000 mi., garaged, must sell, $1,000. 981-0181.

79 HONDA HAWK - motorcycle, 400cc, better than new, asking $1,200. 588-0805 eves.

79 HONDAMATIC - 400cc, crash bars, elect. start, $1,100. Barbara, 475-1392 after 4 p.m.

73 CHEVY IMPALA - 4 dr., radio, p/s, p/b, new tires/brakes/tune-up, $550, delivery after Aug. 3. Ext. 3701.

75 FORD TORINO - am/fm stereo, radials, a/t, p/s, p/b, a/c, vinyl top, good cond., 8 cyl., $1,400. Bob, Ext. 4393 or 924-0589.

TIRES - (2) L78-15 snows, (2) 21575-15 radials, (2) FR78-15s; parts for 69 Chevelle SS, will sell or trade, reasonable. Greg, 399-4213.

CHEVY RIMS - (4) white spoke and tires, S lug pattern, $80. Mike, 727-2686 after 6 p.m.

59 BONNEVILLE - 389 cu. in., p/s, p/b, a/c, automatic 4 spd., for restoration or parts. Tom, Ext. 4524.

71 SUPER BEETLE - 7,000 mi. on new engine, new tires, $1,195. Saed, Ext. 4389 or 331-1665.

71 MAVERICK - good transportation, 18 mpg, needs brakes, $285. Ext. 3153 or 744-1418.

79 GMC 3/4 TON PICKUP - heavy duty, 350 cu. in., 4 spd., clean, asking $4,500. Ext. 4289 or 878-0953 or 878-9582.

STEEL BELTED TIRES - (3) Michelin, P165/75 R13. Frank, Ext. 2350.

79 OLDSMOBILE CUTLASS SALON - p/s, p/b, a/c, power seat, new radials, V8, dark blue, $4,300. 475-2505 after 5 p.m.

81 CHEVETTE SCOOTER - still under warranty, 2 dr., a/t, am/fm/tape, 6,000 miles, 30+ mpg, radials, must sell, $4,300. 473-2473.

69 DODGE CHARGER - body excel. cond., primed ready to paint, $250. 473-5890 after 5 p.m.

78 TRANS AM - 6.6 lt., gold w/beige int., p/s, p/b, DE, 4 spd., T top, am/fm 8 trk., $4,995 firm. Roy, Ext. 4664 or 744-8779.

TIRES - (5) steel belted radials, all 13", off Chevy Monza, very good cond. Tom, Ext. 2956 or 735-1144.

SUZUKI GS - 1000L, mint cond., bought new Dec. '81, 600 mi., must see, $2,700. 799-4834 after 6 p.m.

70 KARMAN GHIA - conv., canary yellow, must sell, best offer. 548-3121, 9 a.m. to 5 p.m. or 924-4284 after 7 p.m.

71 FORD TORINO - station wagon, runs well, rebuilt heads, carburetor, new water pump, $800. Steve, Ext. 3077.

79 RABBIT - tan, 4 spd., excel., well maintained, no dents, $3,500. Ext. 4228.

66 MERCURY - wagon, clean, runs good, $375. Must sell! Rich, Ext. 3499 or 585-0025.

74 CHEVROLET - Step Van, V8, 4 spd., refrigerated, insulated, fiberglassed, heavy duty, front and rear, $4,000. 654-5169.

69 RAMBLER - (6) new tires, green, cute and affectionate, of good sentimental value, asking $300. Ext. 7197 until 6 p.m. today.

77 GREMLIN - low mil., s/t, excel. cond., $2,300. 475-3262 after 6 p.m.

71 HONDA - 175cc, good cond., runs well, reliable transp., $250. Larry, Ext. 2021 or 281-7240.

80 SUZUKI - GS 1000L, custom seat, luggage rack, cruise control, many extras, warranty, $2,900. Ext. 7187 or 981-9474.

PARTS - 5 HP gas motor upright, $100; 76 Olds., 455 motor and transmission, 34,000 mi., $400 complete; 3 HP Jacobsen motor, hi-torque, commercial 2 cycl., $100. Gus, 732-1178.

81 FORD - am/fm stereo, premium package, best offer. Pete, Ext. 3305 after 4:30 p.m.

TIRES - (1) temporary, on rim, never used, (1) used tire & rim for Chevette, $5. 281-2002.

80 MAZDA - Sport Pickup, immaculate, stereo w/tape, 22,000 mi., 26 mpg local, 40 mpg highway, Cap. 727-7741.

70 VW - Bug, 4 sp., new battery, recently tuned up, runs well, asking $600. Toni, Ext. 2907.

Boats & Marine Supplies

25' CHRIS CRAFT - 1960, rebuilt engine, still under guarantee, galley, stand-up head, sleeps 4, in good cond., asking $1,700. Can demonstrate. 281-0360.

18' PICKERAL GARVEY - glassed tight. 286-8991.

19' ODAY MARINER - 1968, 4 HP Evinrude, trailer, $6,000. Olson, 289-8629 after 7 p.m.

Free

KITTENS - (3) cute and cuddly, playful and gentle, house broken. Nicole, 821-9716.

MALE KITTENS - adorable, available end of July. Ext. 2980 or 289-0532 after 6 p.m.

PUPPIES - Springer Spaniel/Shepherd males; female Lab/Weimeraner; Springer mixed puppies. Ext. 2959 or 751-8168.

Miscellaneous

WASHING MACHINE - med. size, Whirlpool, excel cond., $100; upright freezer, old but all okay, 6'x3', $100 takes it. 924-6751 eves.

BEDROOM SET - 2 single beds, chest of drawers, 2 night tables; G.E. air conditioner, 14,500 BTU 115V, 7-1/2 amps; TV reclining chair, new cond. Ext. 3392 or 475-8330.

CAPI DIMONTI TABLE LAMP - pink, $20; plaid suitcase, 24x28, zipper all around, $10. J. Candiano, Ext. 4144.

COMPUTER S-100 - Sol-20, 32-Kram, NS-DD drive, complete documentation and software library, $1,200. Ext. 2450 or 744-5217.

ROSS BICYCLE - boy's 20", fair cond., $35; childs desk, $10. Ext. 2487 or 928-6930.

CAMPING EQUIPMENT - Coleman 2 burner stove, lantern, cooler, sleeping roll, $7/ea. or 4/$25; Panasonic stereo, built-in cassette, two floor speakers, $60. 928-8298 after 6.

HOT TUB - 7'x4', redwood, all support equip., bubbler & jacuzzi, extras, $1,800; helmet, full face, black, med., new, never used, cost $90, sell for $65. Ron, Ext. 7101 or 289-1003.

CHILD'S TRACTOR - metal, chain drive with tow behind wagon, like new, $35; baby guinea pigs, curly haired, $5/ea.; pet rats, white & tan, $1.50; tricycle, small child's, $15; large rocking horse, $15. John, Ext. 5152 or 281-2471.

CRIB - $35; pedestal high chair, $35; changing table, $5. Sue Norton, Ext. 7772.

SEARS ELECTRIC RANGE - double oven, good cond., $125. 475-5448 after 6.

CALORIC GAS RANGE - 30", coppertone, $75. Stan, 363-6427.

SHOWER STALL - 32x32, like new, asking $60; Cobra CB, 23 channels, asking $60. Ext. 2011.

SEALPOINT SIAMESE KITTENS - male & female, parents on premises, born May 19th, $55. 929-3207.

MOVIE CAMERA - Bell & Howell, w/sound and projector, hardly used. 331-1572.

TOMS MOPED - GM sport, 2 spd., automatic, new $500. Ext. 3926.

COLOR TV - 23"', Motorola reconditioned, beautiful wood grain console, $150; Bogen stereo amplifier, excel. cond., like new, 35 watts per channel, $60; uprite organ, Magnus Model #535, 42 watts, $60; Siltronix 0-1500 watt meter, 2-50 MHZ, $50. 751-6418.

ATARI VIDEO GAME SYSTEM - like new, $95, (15) assorted game cartridges $15 & $18 ea., all in orig. boxes. Richie, Ext. 2175 or 734-7342.

FREEZER - Imperial, excel. cond., paid $600, asking $350. Chris, 475-1706 any day.

KEROSENE HEATER - 22,000 BTU, w/accessories. Ext. 4393 or 924-3419.

UTILITY TRAILER - w/cap, excel. cond., $300. 654-8379.

INSULATORS - "Collectors" Hemingray, clear, numbers 9, 12, 45, 53, 56, $1 ea. 234-8229.

HAMSTERS - (2), Teddy Bear (large) w/10 gallon tank, exercise wheel, ball, tame, lovable, $20 for both. 744-3069.

WINDOWS/DOORS - wooden, double hung, stationary w/storms, metal & wooden storm doors. Bob, Ext. 7785.

PIANO - Ross Spinet, w/bench & inside dehumidifier, $550. 878-8458.

DESK - contemporary pine, 6 drawer, $65; 5 piece contemporary oak dinette, $135. Ext. 4049 or 331-1665.

CLUB CHAIR - gold, $35. 698-3856.

ATARI VIDEO COMPUTER SYSTEM - brand new, never used, includes Pac-man cartridge, $115. Fred, Ext. 4988.

WOODEN WINDOW - & door screens, good for camp, cheap; barberry bushes, good for hedges, you dig, priced according to size, but cheap. 281-2002.

TRAVELLING LAWN SPRINKLER - Mellnor two speed, $25; Router table, Sears De Luxe Model, $30. 589-3608.

FISH TANK - 55 gallon w/stand, hood, pump, filter, fully equipped, $175. Ext. 7187 or 981-9474.

DINING SET - solid oak wood w/table mat, 2 leaf extension, 6 chairs w/cushions & covers, excel. cond., $200. Ext. 3742 or 821-9423.

BEARCAT - BC-220 scanner $95; stereo system, $85; Reese trailer hitch, $85; portable stove, $20. 265-3612.

TRAINS - Lionel, any "O" gauge or "027" gauge cars, track and equip. Frank, Ext. 3120.

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

WADING RIVER - custom built, 4 bdrm. colonial, 2 baths, d/r, den, f/p, 2 car garage, full basement, private beach. Ext. 7727 or 929-4631.

RIDGE - 2 bdrm. house on 100x100, deck, fireplace, lake rights, $34,000. 929-6034.

MASTIC BEACH - 4 bdrm. cape, large l/r, d/r, eik, util. room, gas hot water & cooking, full porch, low taxes, near stores & bay, Farmer's 8-1/2% mortgage, 80x100 prop., (adjacent 80x100 avail., reasonable), $24,000. 281-0360 after 6 p.m.

SETAUKET - Nassakeag Ridge, prime area, near SUNY, custom ranch, pvt. treed 1/2 acre, cathedral ceiling den, skylight, f/p, gourmet kitchen, fin. bsmnt, 7-1/2% assumable mtge., $117,000. 751-6508.

For Rent

SHOREHAM - 2-5 bdrm., furn., beautiful secluded grounds, walk to beach, from August for 1 year, rent varies depending on space needed. 744-6804.

FLORIDA - furnished 2 bdrm. house, Spring Hill, West Coast, near Tampa, golf, lakes, tennis in community, state beach near-by, reasonable. 261-2719.

FURNISHED HOUSE - 3 bdrm., private fenced backyard, 5 mi. from Lab., $400/mo. + util., Aug. 8 -Sept. 9. Ext. 3742 or 821-9423.

BERKSHIRES CHALET - 3 hrs. from NYC, 3 bdrms., 2 baths, fully equipped kitchen, electric heat, deck w/spectacular view, near lake, hiking trails, available weekly or weekends. 929-6949 after 6 p.m.

SOUTH BAYPORT - very private, furnished, studio apartment $315/mo., incl. util., single only. 472-0706 after 7 p.m.

E. PATCHOGUE - 3 bdrm. house, study, sunporch, unfurnished, $625/mo., available Oct. for 2 yrs. J. Olson, 289-8629 after 7 p.m.

N. PATCHOGUE - brand new studio apartment, full kitchen, bath, private entrance, cablevision, w/w carpet, must see. Carol, 289-3917.

Car Pools

LAUREL/MATTITUCK - interested in joining existing car pool or forming new one. Carmen, Ext. 2663 or 298-4931 after 6 p.m.

PORT JEFF. STA./TERRYVILLE - 8:30 a. to 5 p.m. Ron, Ext. 3238.

Lost and Found

LOST - contact lenses in white case, vicinity of B. Center. Ext. 3565.

LOST - NiCad battery pack for Sony portable recorder. Call Mona, Ext. 2347.

Wanted

MICROSCOPE - for teenager. Ext. 2226 or 331-3445.

TWIN BED - headboard & footboard, preferably white, with or without bedding. Lorrie, 399-5044.

UTILITY TRAILER - 4' bottom, homemade is fine, about $100 to spend. 924-6751 eves.

CREW POSITION - on offshore sailboat, 1-6 weeks available, experienced. Joe, Ext. 7961 or 878-2655 eves.

PERSON WITH VAN - to move a small piano and some light furniture to Queens, will pay reasonable rates. Ghosh, Ext. 4372.

AMBITIOUS PERSON - $200-$300/month, 6-8 hrs/week. 698-5861 after 7:30 p.m.

FORD SUPER CAB - 77-79, pickup truck. Artie, Ext. 2674 or 325-0743.

GARDEN SHED - at least 4 x 8. Mark, Ext. 3499 or 698-5748.

GUARDRAIL - for child's bed, the grandchildren are coming! Ext. 2260.

HOUSE TO RENT - 2-3 bdrm., Oakdale/Sayville/-Bayport area, Sept. occupancy. Ext. 2434 or 666-5367 eves.

3-WHEEL BICYCLE - adult women's, reasonable. 281-2002.

MG MIDGET - for parts, pre 1970. Ext. 2934 or 744-2816.

ICE MAKER - 300-400 lbs.; housekeeper, one day per week; gardner to maintain small 100x100 area; sail boat for rent, 27'-30', for summer students. Renee, Ext. 3316 or 698-1362 after 6 p.m.

Services

Services are listed as a courtesy to BNL employees. They are neither screened nor recommended by the Bulletin.

YARD MAINTENANCE - lawn cutting, clean-ups, No. Shore, Port Jefferson to Rocky Point. John, 331-3358 or Bob, Ext. 2517.

CEILING ATTIC FANS INSTALLED - Joe, 399-0864.

EXTERMINATING - licensed men, all phases of pest control and termite specialists, no job too small, free estimates. 281-5445.

HOME IMPROVEMENTS - vinyl and alum. siding, alum. trim, roofing, gutters and leaders, custom carpentry, free estimates. Charlie, 744-3160.

FIRESIDE CHIMNEY SWEEP - fireplaces, wood, coal & oil flues, dustless removal, insured, Lab discount. Bill, 584-6425.

DOG BOARDING - private kennel, personal attention, indoor pens, outdoor runs, $5/day. Betty, 924-6981.

ASPHALT PAVING - & sealing. Bob, 475-4382.

LIMO SERVICE - luxury, chauffeured for proms, weddings, airport or night on town. Roy, Ext. 4664 or 744-8779.

HOUSE PAINTING - exterior/interior, professional, insured, quality materials. Bob, 289-7657 after 6 p.m.

SHEET ROCKING - and spackling, free est. Kevin, 567-6651.

TUTOR - certified elementary and special education, any subject, own trans. Lisa, 654-8289 or 289-7899.

PLUMBING & HEATING - Lab discount. John, 654-8189.

SPACKLING/TAPING - expert. Bill, Ext. 3277 or 286-8185 after 5:30 p.m.

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