

Tech Transfer Award Goes to Fontana and Kukacka

For developing a type of polymer concrete that can be used to insulate dikes around liquid natural gas tanks, Lawrence Kukacka and Jack Fontana have won a 1991 Federal Laboratory Consortium Award for Excellence in Technology Transfer.

Kukacka, a chemical engineer in the Department of Applied Science, and Fontana, who retired from that department last year, developed the material at BNL in the mid-1980s, in work sponsored by the Gas Research Institute. Subsequently, Brooklyn Union Gas and the Long Island Lighting Company applied the material to large storage sites in Brooklyn and Holtsville.

In case of a tank rupture, an insulated dike can significantly reduce the evaporation of the liquid natural gas, which in turn reduces the concentration of explosive vapors. This lowers the risk to people and property in the surrounding area.

The polymer concrete insulation consists of a hollow glass and/or ceramic aggregate bound together with a polymer, specifically, a specially formulated epoxy or polyester resin. It was the polymer concrete work that BNL's Office of Technology Transfer submitted to the federal



Roger Stoutenburgh

In developing their award-winning insulating polymer concrete material, Jack Fontana (left) and Lawrence Kukacka built a section of a dike to use in evaluating their material.

consortium for the award.

Most recently, however, Kukacka and Fontana have focused on a new material that is one-fifth the cost of the insulating polymer concrete. The new formulation substitutes a latex-containing cement as the binder.

Though the new material doesn't perform as well as the original, says Kukacka, it exceeds most of the performance criteria and is considerably cheaper. He predicts that the cost advantage will make the latex-modified material more widely used.

"There is a growing need for cleaner-burning, low-cost fuels," says Kukacka. "That means substituting gas for oil, especially for transportation."

According to Kukacka, the time is coming when transportation fleets such as buses and taxi cabs will be fueled with liquid natural gas. He envisions an increase in small, end-user facilities and, thus, an increase in the need for protective dikes — made safer by BNL-developed insulating materials.

On Site Today

BNL's Exhibit Center/Science Museum is open today from 11:30 a.m. to 1:30 p.m., to celebrate International Museum Day. You can walk through the museum and visit the Science Store located in the west side of Bldg. 701. Park in the north parking lot.

Coming Up

The 1991 NSLS Annual Users Meeting will be held on Tuesday and Wednesday, May 21-22, in Berkner Hall.

The meeting will be preceded on Monday, May 20, by five workshops on: electronic and chemical phenomena at surfaces, surface structure, computational tools in XAFS, atomic and molecular science, and imaging.

For workshop and meeting schedules, and for registration information, contact Linda Feierabend, Ext. 5763, Bldg. 725D.

BNL Lecture: Global Climate Change

In its last major perturbation, the earth's temperature dropped enough to cause an ice age with its accompanying expansion of glaciers. As the glaciers receded, they left behind enough material to reshape old land masses and form new ones, and thus was Long Island formed.

Now, many believe, the earth's climate is on the verge of another significant perturbation. This time, however, temperatures may rise. If so, polar ice would ultimately melt, causing a rise in sea level and threatening low-lying areas — such as Long Island.

Current thinking about the extent of this global warming and its possible effects will be discussed in the 270th Brookhaven Lecture, to be delivered by Bernard Manowitz, former chairman of the Department of Applied Science (DAS) and a senior chemical engineer in DAS's Environmental Chemistry Division (ECD).

Manowitz's talk on "Global Climate Change: Uncertainties and Policy Implications" will begin at 4 p.m. on Wednesday, May 15, in Berkner Hall. The speaker will be introduced by Leonard Newman, head of ECD, which is one of several DAS divisions participating in the Lab's multidisciplinary program on global change.

Manowitz will begin his lecture by describing the cause of global warming — the greenhouse effect, which is caused by absorption and reflection of solar radiation in the atmosphere by water vapor, carbon dioxide and other gases.

Using a simple model, Manowitz will discuss whether changes in global temperature are due solely to the effects of the greenhouse gases, or whether other factors may be contributing, such as variations in the solar constant or increased volcanic activity.

Other uncertainties that Manowitz will consider include the amount of global climate change that may occur, when it might be expected to peak, how it would affect the world's



Bernard Manowitz

—photo by Stoutenburgh

oceans and what impacts it would have on developed vs. developing nations.

Given research that has been done and models now in use to project these effects, Manowitz will discuss policy implications of global climate change: What can nations do to reduce possible impacts? When should they do it?

Bernard Manowitz began his career in chemical (continued on page 2)



Ray Davis and Allen Mannella

Brookhaven Scientists Go Back to School

Just as there are artists in residence at schools throughout the U.S., there are now ten BNL scientists in residence at schools throughout Suffolk County.

The scientist-in-residence program was the idea of Scientist Karl Swyler in Brookhaven's Office of Educational Programs (OEP). OEP is recruiting the volunteer scientists and engineers primarily from the ranks of the Lab's retirees and is working with the Board of Cooperative Educational Services to place them in local schools.

Once in residence, the scientists are free to give guest lectures and tutorials to students; serve as consultants to teachers; review textbooks and other instructional materials; design classroom demonstrations and lab experiments; and just be available as knowledgeable, approachable role models. The details of the residency are decided between the scientist and the school.

For instance, retired Senior Chemist Raymond Davis (left in photo) is the scientist in residence at the Longwood Middle School. He is pictured receiving a certificate of appreciation from Allen Mannella,

a school house captain, at the conclusion of the school's two-week science olympiad.

With Davis as an inspiration, a judge and the presenter of the winners' trophies, this academic competition involved interclass contests and required every student to design and build three projects: a car propelled by a mousetrap, an airplane for distance and direction, and a container that would cushion a raw egg when dropped 20 feet.

Other BNLers in residence include: retired Scientist Robert Aronson, Rocky Point School District; retired Chemist David Christman, Miller Place; retired Physicist Edward Der Mateosian, Connetquot; retired Senior Metallurgist David Gurinsky, South Manor; retired Senior Chemist Seymour Katcoff, William Floyd; retired Chemical Engineer Gerald Strickland, Sayville and Wyandanch; and Chemist Robert Thomas, Wyandanch. Retired Scientist Edwin Popenoe and retired Physicist John Stehn will soon take up residencies at Shoreham-Wading River and Patchogue-Medford, respectively. — Marsha Belford

In Memoriam

Sheree Flippen, a secretarial specialist in the National Synchrotron Light Source Department (NSLS), died on Saturday, May 4, following an automobile accident. She was 32 years old.



Flippen's 12 years at BNL began in October 1979, when she became a specialist the Photography & Graphic Arts Division. In 1985, she joined the Department of Nuclear Energy as a secretary. She was named senior secretary in 1986 and secretarial specialist in 1988. She transferred to the NSLS in August 1990.

A resident of Riverhead, Sheree Flippen was buried in Riverhead Cemetery on Wednesday. She is survived by her ten-year-old daughter LaToya Nash; mother Virgie Langhorn and stepfather Albert Langhorn; father Arthur Flood and stepmother Elsie Flood; sisters Gina Flippen, who works in the Medical Department, and Charlene, Doris and Brenda Flood; brother Arthur Flood Jr.; three stepsisters, Nancy Harris, Alberta Trent and Joyce Mack; niece LaShelle Flippen; nephew Marc Flood; and other relatives.

Contributions in Sheree Flippen's memory may be sent to Gina Flippen, Box 244, Upton, NY 11973.

Jennings to Speak On Diversity In the Workplace

Glenn Jennings, Assistant to the Director for Equal Opportunity, will present the next Brookhaven Women in Science (BWIS) seminar on Thursday, May 16, at noon in Berkner Hall, Room A.

Speaking about "Implications of Workplace Diversity," Jennings will describe how the changing demographic composition of the work force is making the workplace more responsive to the needs and concerns of women, minorities and people with disabilities. As a result, the traditional legalistic, equal employment opportunity concepts for promoting change are being challenged.

As Jennings will explain, "management as usual" will not bring about effective management of employee diversity. Today's employers must understand that the concerns of women, minorities and disabled employees often differ from those of white male workers. For example, employers must address the child-care needs of the increasing numbers of female employees.

All are invited to bring their lunch and their questions to this BWIS seminar. For more information, contact Dorry Tooker, Ext. 2078.

Spring Danger

Warmer weather is coming in. And coming out in larger numbers are determined joggers, unsteady bicyclists and absent-minded pedestrians. Add to this list some drivers-in-a-hurry-to-get-home-and-mow-the-lawn, and there's a potential for accidents. Please watch out for one another.

Note to Employees:

Attendance at lectures, meetings and other special programs held during normal working hours is subject to supervisory concurrence.

West Point Cadet Geiger Completes Semester of Civilian Science

Today is the last day for the 19 undergraduates on site participating in the spring term of the Science and Engineering Research Semester (SERS). While the other students will just pack up and go sometime this weekend, Marcia Geiger has orders to leave.

"At the Military Academy, all your time has to be accounted for, so I was cut one set of orders telling me to be here on January 20 and another set to be back at West Point by Monday evening," says Geiger, a native of New Milford, Connecticut, and the first generation of her family in the military.

Majoring in both mathematics and nuclear physics, Cadet Geiger will be a senior next fall semester at the United States Military Academy (USMA) at West Point, N.Y. She was the only cadet allowed to study outside the Academy this school year, the first West Point undergraduate at Brookhaven, and only the second USMA student to participate in SERS.

Sponsored by the U.S. Department of Energy at the different national laboratories and administered at Brookhaven by the Office of Educational Programs, SERS lets students experience the real world of science by engaging them in research geared to their academic interests and supervised by resident scientists.

Working under the supervision of Nuclear Engineers Greg Van Tuyle and Michael Todosow, both in the Reactor Analysis Division within the Department of Nuclear Energy (DNE), Geiger used the computer to model aspects of a proposed machine for reducing nuclear waste, based on what is known as the PHOENIX Concept.

Devised by BNL Physicist Hiroshi Takahashi, DNE, in the early 1970s, the concept involves using a large, linear proton accelerator to transform longer-lived radioactive wastes produced by light-water reactors (LWR) into shorter-lived radionuclides and nonreactives of different elements. In the process, more than enough electric power would be generated to run the accelerator.

Specifically, the PHOENIX accelerator's proton beam would be aimed at a target made up of longer-lived waste components from spent fuel from LWR reactors, such as technetium, iodine and elements in the actinide series. When hit with the protons, these target nuclei would change both their mass and atomic number, thereby transmuting to shorter-lived nuclei by ejecting particles including neutrons.

Senior Thesis for Double Major

As part of the engineering study of the feasibility of a PHOENIX machine, Geiger spent the last term doing multidimensional analysis using Monte Carlo computer codes to look at the reactions going on within the target, depending upon its design.

"This project is my senior thesis for both of my majors," explains Geiger, who is ranked ninth in her class academically. "I really liked what I was doing here at Brookhaven — I was blessed with good advisors who taught me more about nuclear engineering in one semester than I would have learned otherwise in a year, I got to see what the civilian world of science is like, and I got to see another part of the country."

In addition to her 9-credit-hour thesis research, this semester, BNL's cadet-in-residence took two 3-credit courses: an electricity and magnetism physics course at the State University of New York at Stony Brook, and a West Point correspondence course in nuclear reactor theory.

"Since I took enough credits this term, I can graduate on time next May — and get married the day after



Marcia Geiger

— photo by Stoutenburgh

graduation," explains Geiger, who is engaged to a graduating West Pointer. If she were to marry earlier, Cadet Geiger would not be permitted to remain at the Academy.

Founded in 1802, the USMA is a federal educational institution, which has been training young men and, since 1976, young women to be officers in the U.S. Army. To be considered for appointment to the Academy, applicants must be nominated by either their U.S. Senator or Congressman. In addition to four years of instruction, summers are devoted to military training. In exchange for their four years of full scholarship and monthly stipends, West Pointers must spend five years in the Army after graduation.

During her high school days, Geiger and her family happened to tour West Point. When her mother's suggestion that she apply to the Academy was overheard by a tour guide, he informed Geiger that she'd never get in. As a result, "I became determined. I wanted something different and I was pretty sure I wanted to major in some physical science, so West Point was the place to be," she recalls.

Geiger would like to go on for her Ph.D. in nuclear engineering, but maybe not while she's in the Army "because then I'll owe three years to the military for every year in graduate school and I don't know if I'm ready for a total commitment of 20 years."

As she has hoped, however, "I have gotten to do different things, like drive and fire a tank and an armored personnel carrier. I think military technology is neat and I'd like to work on that. And, I have been drill sergeant and I am going to be a cadre leader this summer; I like learning how to handle the responsibility and develop my authority.

"Like the regimentation, there are some things and compromises that I don't like about military life, but then the same is true of civilian life as well," Geiger concludes.

— Marsha Belford

BNL Lecture (cont'd)

engineering in 1944 at the Clinton Laboratories, which later became Oak Ridge National Laboratory. After obtaining his M.S. from Columbia University in 1947, he moved to BNL, signing on in the Lab's first year. He was a chemical engineer in the Department of Nuclear Engineering until 1960 when he became Associate Head of the Chemistry & Chemical Engineering Division.

From 1962-74, Manowitz headed DAS's Radiation Division. During this time, he was responsible for proposing and building BNL's High Intensity Radiation Development Laboratory. Operated from 1960 to the mid-70s, this facility was used for obtaining engineering data on gamma ray sources and developing handling techniques.

In 1974, he became Associate Chairman for DAS's environmental programs. He began the first of his two 5-year terms as DAS Chairman in 1979, stepping down to return to research in 1989.

A Fellow of the American Nuclear Society since 1965, Manowitz received the ANS's Radiation Award in 1971. He was recognized by Southampton College in 1982 with an honorary Doctor of Science degree. In addition to the ANS, his current memberships include the American Institute of Chemical Engineering and the American Geophysical Union.

After the lecture, those attending are invited to join the speaker for discussion and hors d'oeuvres. To join the lecturer for dinner at a restaurant off site, call Paul Moskowitz, Ext. 2017.

Equipment Demos

IBM will offer two mornings of seminars on their new RS/6000 family of processors, as follows:

Monday, May 13: 9:30 a.m. Overview of RS/6000 Family; 10:45 a.m. Overview of IBM AIX V3 Logical Volume Manager

Tuesday, May 14: 9:30 a.m. Parallel execution on multiple RISC systems; 10:45 a.m. Workstation farming and batch queuing

Users are invited to try their codes on the RS/6000. IBM Dallas Engineering Support Center staff will be on hand to assist.

The presentations will be in the CCD Seminar Room, Bldg. 515. For questions and to schedule time with IBM staff, call Ken Hammer, Ext. 7311, or leave a message at 349-3462.

At Berkner Hall on Tuesday, May 14, from 10 a.m. to 2 p.m., Marshall Industries will display the following product lines: Allegro, AMP, CTS, Computer Products, Elantec, Linear Tech, Marshall Computer Products, Nidectorin, Signetics, Siliconix, Sprague, Sony ICs, Kinotechnics, 3M, Quest, American Beauty, Tektronix and Marshall Value Added.

Catch a glimpse of

GLANCE

playing in Berkner Hall
weekdays, 11:30 a.m. to 1:30 p.m.
Show changes every Tuesday.

Golf Tournament

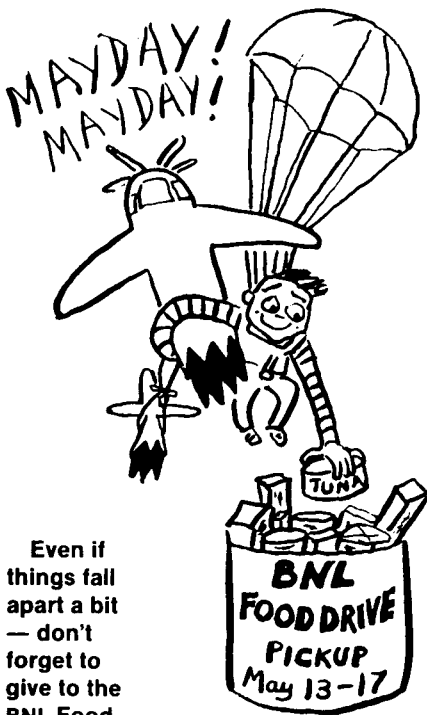
The second scheduled 1991 BGA golf tournament will be held on Thursday, May 16, at the Heatherwood Golf Club, in Centereach. The tournament will be played under stroke-play rules, utilizing the Callaway method of handicapping.

Greens fees are \$18, riding carts are available for \$20 per cart, and pull-carts are \$3. The sign-up deadline is May 14; please have a complete foursome prior to calling. Call John Dabrowski, Ext. 4632, or Bryan Culwick, Ext. 4930, to arrange a tee-off time.

Tee times run from 10 a.m. to approximately 12:30 p.m., depending on the number of people signed up. In the event of rain, call the Pro Shop at 473-9000.

Volunteers Needed

Male volunteers, ages 20 to 70 and in good health, are needed to participate in brain and heart imaging studies being conducted by BNL. A fee will be paid. For more information, call Naomi Pappas, Ext. 2694.



Even if things fall apart a bit — don't forget to give to the BNL Food Drive! Personal checks and receipts from King Kullen and Finast, which give rebates, are also welcome. Send them to Carole Kerr, Bldg. 460.

Beach Volleyball

The first annual beach volleyball get-together will be held on Saturday, May 18, at the Hampton Beach Club, starting at 11 a.m. Parking is free. Bring a sweatshirt, as the weather is changeable at this time of year, and there is no rain date. We need a head count by Monday, May 13. For more information, call Kathi Barkigia, Ext. 7661.

Arrivals & Departures

Arrivals

Anthony Santaniello.....Nuc. Energy
Paul T. Singer.....Biology

Departures

This list includes all employees who have terminated from the Lab, including retirees:
Claudia A. Adamczyk.....AUI
Monica Collins.....S&EP
Leonard E. Engel Jr.....S&EP

BROOKHAVEN BULLETIN

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What a Difference a Month Makes!



Bobby Metz and Buttons

Photo by Roger Stoutenburgh

Bobby Metz has got Buttons eating out of his hand these days. But about a month ago, when Metz first saw the white-tailed deer it was clear that he had not eaten properly in quite a while.

As part of the Grounds Maintenance Crew in the Plant Engineering Division, Metz and his coworkers Frank Gaetan and Lonnie Muldrow were making their rounds when they spied the yearling standing by a fence about five feet away from them. "When we moved closer," said Metz, "he tried to run, but he fell over."

Metz picked the deer up — "He was just about near dead!" — put him in the truck. He first brought him back to crew headquarters, and then home for the weekend for intensive bottle feedings. The need for this was underscored on Saturday when Metz took the deer to his veterinarian, who

diagnosed Buttons as being severely undernourished.

By Sunday, recalls Metz, "I thought he might make it, he got perky."

Metz named the deer Buttons in reference to the two little nubs of antlers on his forehead.

Returning to work on Monday, Metz got the OK from his supervisor, Roy McWilliams, to take care of Buttons at BNL, on his breaks and lunch time. Many coworkers have helped Metz pay for Buttons' feed, bedding, vitamins and medicine.

In addition, Clarence Hicks and Jerry Hobson helped Metz build a temporary pen. There, Buttons has been regaining his strength and enjoying the attention from his many visitors.

Metz expects that Buttons will be leaving any day now. "I don't want to keep him too long. He might get used to this stuff," he says.

When Buttons does leave, Metz will have lots of memories of a little deer who "follows me around" and who may have affected a permanent change in him. "I am a hunter," he said, "but after this, I am taking a hard look at it." — Anita Cohen

Classified Advertisements

Placement Notices

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

Each week, the Personnel Division lists new placement notices. The purpose of these listings is, first, to give employees an opportunity to request consideration for themselves through Personnel, and, second, for general recruiting under open recruitment. Because of the priority policy stated above, each listing does not necessarily represent an opportunity for all people.

Except when operational needs require otherwise, positions will be open for one week after publication.

For more information, contact the Employment Manager, Ext. 2882, or call the JOBLINE, Ext. 7744 (282-7744), for a complete listing of all openings. **The vacancies listed below have been exempted by the Director's Office from the current freeze on open requisitions.**

LABORATORY RECRUITMENT - Opportunities for Laboratory employees only.

DD 0161. SECRETARIAL POSITION - Requires an AAS in secretarial science or equivalent experience, and knowledge of general office procedures. Knowledge of IPAP and Laboratory procedures desirable. Will input purchase orders and RFQs, and prepare contract files. Division of Contracts & Procurement.

OPEN RECRUITMENT - Opportunities for Laboratory employees and outside applicants.

DD 5208. CLERK-TYPIST - Requires accurate typing and data-entry experience. Will be responsible for routine clerical duties including typing, filing, distributing documents and correspondence, maintaining records and files, and other office functions such as posting to registers and ledgers. Supply & Materiel Division.

Microcomputer Club

A presentation on DR DOS 5.0 will be given by Steve Troustman, John Langford and Mark Thirman of Digital Research Inc., at the next meeting of the Microcomputer Club, on Thursday, May 16, at noon, in the CCD Seminar Room in Bldg. 515.

DR DOS 5.0 is an advanced, DOS-compatible operating system designed for the IBM and its compatible microcomputers. It features a memory-management system, which moves DR DOS, buffers, drivers and TSRs outside the first 640K memory area. The system also has a graphical user interface with windows, icons and pull-down help menus.

All are welcome to attend; bring your lunch. For further details, contact Irving Montanez, Ext. 2540.

Atlantic City Trip

Seats are still available for the BERA-sponsored, one-day bus trip to Trump Castle Hotel & Casino in Atlantic City on Saturday, May 18. Participants must be at least 21 years of age.

Tickets are on sale at the BERA Sales Office in Berkner Hall. For information, call Louisa Barone, Ext. 3347; Rosalie Piccione, Ext. 3160; or Kay Dellimore, Ext. 2873.

Plant Sale

Just in time for Mother's Day, the Association for the Help of Retarded Children is holding a Plant Sale outside of the Cafeteria, from 10 a.m. to 2 p.m. You'll find many hanging plants and geraniums at the sale, from which proceeds will be used to fund activities for mentally retarded adults.

Bowling

White League

Ken Riker had a 202. The Good Times are the first place winners.

Purple League

John McCarthy had a 227/204. Get Serious won first place.

Red/Green League

S. Dimaiuta had a 213, M. Guacci 211, J. DiNicola 203, C. Scarlett 203, K. Riker 202, K. Asselta 200.

DD 0162. CONTRACTS POSITION - Requires a bachelor's degree in a relevant discipline and extensive experience with large federal contracts. Must have complete familiarity with procurement strategy and development, preparation of solicitations, review and evaluation of proposals, and assessment of material risk in the federal procurement environment. Division of Contracts & Procurement.

LL 5520. COMPUTER ANALYST POSITION - Requires a BS/MS or equivalent in computer science, engineering or similar technical discipline and experience in developing and maintaining computer codes in the UNIX environment. Responsibilities include working with FORTRAN, C and operating system interfaces. Computing & Communications Division.

LL 0120. HEAVY EQUIPMENT MECHANIC-OPERATOR - Responsibilities include working under minimum supervision to maintain, operate and repair all material-handling, earth-moving, road and ground maintenance and similar equipment, including complete repair and maintenance of gasoline and diesel engines, and the use of required machine tools. Experience in crane operation is desirable. Plant Engineering Division.

DD 8680. ENGINEERING POSITION - Requires MS in environmental science or engineering or equivalent, and several years' environmental regulatory compliance experience. Demonstrated knowledge of federal, New York State and Suffolk County regulations regarding environmental compliance also required. Duties will include development and submission of permit applications, coordination of on-site inspections with DOE and other agencies, participation in BNL audits, and review of engineering designs and SARs. Safety & Environmental Protection Division.

Motor Vehicles & Supplies

88 FORD F-150 - 4wd, V-8, 5-spd., running boards, cap, am/fm cass., dual tanks, 39k mi., excel. cond., \$8,800. Jim, Ext. 4026.

88 KAWASAKI EX500 - white, 6.5k mi., w/helmet, extras, \$1,849. Steve, 722-4821.

88 BUICK REGAL LTD - 39k mi., fully loaded, digital display, spoke wheels, mint cond., \$8,500. Bill, Ext. 3531/4539 or 473-3171.

(continued on page 4)

Monday, May 13

Soup: Hot & sour	.75/.95
Entree: Fried fish amandine w/1 veg.	3.10
Entree: Pasta primavera	3.10
Fitness: Chef's choice w/1 veg.	3.10
Carvery: Hot pastrami sandwich	2.85
Grill: Knockwurst & sauerkraut on roll	2.85

Tuesday, May 14

Soup: Split pea	.75/.95
Entree: Seafood linguini w/1 veg.	3.10
Entree: Taco bar - build your own (each)	.90
Fitness: Stuffed green peppers w/1 veg.	3.10
Carvery: Hot roast beef sandwich	2.85
Grill: Meatball sub	2.85

Wednesday, May 15

Soup: Cream of carrot	.75/.95
Entree: Chili con carne w/fixings	3.10
Entree: Jambalaya w/1 veg.	3.25
Fitness: Manicotti w/1 veg.	3.10
Carvery: Hot Black Forest ham sandwich	2.85
Grill: Patty melt on rye w/cole slaw	2.85

Thursday, May 16

Soup: Beef rice	.75/.95
Entree: Home-style meat loaf w/1 veg.	3.10
Entree: Chicken fajitas w/rice	3.10
Fitness: Chef's choice w/1 veg.	3.10
Carvery: Hot corned beef sandwich	2.85
Grill: Spicy hot dogs (two)	2.85

Friday, May 17

Soup: Seafood bisque	.75/.95
Entree: Fish 'n chips	3.10
Entree: Pasta w/meat sauce	3.10
Fitness: Chef's choice w/1 veg.	3.10
Carvery: Hot turkey sandwich	2.85
Grill: Chicken teriyaki w/lettuce, tomato & pickle	2.85

Classified Ads (cont'd)

88 TOYOTA COROLLA GT-S - 5-spd., ac. 475-0923.

88 CHEVY BERETTA GT - gray, fully loaded, digital display, new tires, 6-cyl., asking \$5,500 neg. Sharon, Ext. 3359.

87 NISSAN - p/s, p/b, a/t, new muffler, brakes, tires, plugs, 52k mi., excel. cond., \$3,995. 874-4845 after 6 p.m..

87 YUGO - 2-dr., 4-spd., am/fm stereo cass., 28k mi., runs well, excel. cond. Joey, Ext. 2950 or 758-2938.

87 CORVETTE - red, glass roof, 32k mi., loaded, excel. cond., asking \$16,000. Beth, Ext. 4132.

86 SUBARU GL - 2-dr. h/b, am/fm cass., sunroof, a/t, 28k mi., excel. cond., \$4,295. Ext. 4985.

86 ISUZU PICKUP - 4wd, 77k mi., 38k mi. on the eng., LS pkg., excel. cond., \$5,200. Lloyd, Ext. 3163 or 286-1024 after 6 p.m.

86 PLYMOUTH VOYAGER SE - 2.6L, 7-pass., a/t, ac, cruise, roof rack, running boards, 96k mi., \$3,500. 472-0690 after 5 p.m.

86 CHRYSLER NEW YORKER - 4-cyl., turbo, 4-dr., white, leather int., voice alarms, digital dash, all avail. options, mint, \$6,000. Jim, Ext. 4040.

85 HOLIDAY TRAILER - awning, elec. jack, fm cass., front & rear entry, Reese hitch, excel. cond., must see. Joe Mead, Ext. 2148.

85 DODGE RAM CHARGER - loaded, running boards, am/fm cass., alarm, excel. cond., must see, \$7,000. Chris, Ext. 2326.

84 T-BIRD - p/s, p/b, V-6, loaded, 122k mi., new brakes, shocks & tires, well maint., excel. cond., \$2,000. Clare, Ext. 7812 or 757-8994.

84 MONTE CARLO - ac, p/s, p/b, p/w, tilt wheel, am/fm stereo, 70k mi., some body damage, \$2,500. Joe, Ext. 3573 or Beeper 0232.

84 CHEVY CELEBRITY WAGON - 6-cyl., a/t, ac, p/l, \$1,600. John, Ext. 3302 or 924-0651.

83 OLDSMOBILE CIERA - p/w, cruise, a/t, p/b, good cond., asking \$2,200. Beth, Ext. 4132.

83 YAMAHA VIRAGO - 750cc, immac. cond., garaged, extras, asking \$2,000. Charles, Ext. 5211.

82 SUBARU WAGON - runs well, great summer car, \$500. Brian, 474-2576 eves.

82 PONTIAC J2000 - 4-dr., 4-cyl., a/t, ac, good body, runs OK, \$600. John Ext. 3302 or 924-0651.

82 DODGE RAM CAMPER VAN - bright headlights, mint spare tire, & much more in between, 17' of home. Judy, 924-6129.

81 DATSUN 200SX - orig. owner, SL pkg., 5-spd., new battery, alt. & tires, excel. running cond., asking \$750. Bob H. Ext. 4446 or 654-3989.

81 VW RABBIT - diesel, 4-spd., ac, 90k mi., new alternator, battery, belts, hoses, brakes, tires, muffler, excel. cond., \$995. 874-4845 after 6 p.m.

80 HONDA EXPRESS MOPED - good running cond., \$170. Leo, 728-0992 after 5 p.m.

79 JEEP CHEROKEE - 4wd, RR, ac, a/t, good cond., \$1,500. 878-1178.

78 FORD VAN - many new parts, \$450. Frank, Ext. 2368 or 399-6902.

77 MERCEDES 300D - 4-dr., midnight blue, sunroof, am/fm, a/t, ac, Pirelli tires, new battery, alternator, starter, must see, \$6,500. 475-8268.

72 GMC STEP VAN - dual wheels, all alum. body, heavy-duty trans. & rear end, \$3,000. 929-3419 after 5 p.m.

72 CHEVROLET WINDOW VAN - ¾-ton, trailer hitch, \$500 or best offer. Bill, Ext. 4774 or 298-8657 eves.

70 FORD TORINO GT - V-8, a/t, sunroof, new int., suspension, brakes, extras, \$1,700. Chris, 929-8105.

69 CAMARO RALLY SPORT - classic car, fair cond., \$3,500. Jim, Ext. 3372 or 821-0250.

65 MUSTANG - 2+2 fastback, 289 2bbl., 3-spd., 97k mi., ask. \$5,500. Carole, Ext. 7100 or 924-4097.

57 CHEVY - 4-dr., ext., int., tires & engine in good cond., neg. or trade early '60 convertible. Dom, Ext. 4851.

DRIVETRAIN - for '72 Blazer, 350 motor, 4-spd. tranny, transfer case, \$300/all. Jim, Ext. 4026.

TIRES - 4 B.F. Goodrich, 30x9.50 15 lt. radials on 7" American Racing mags, fits Jeep Wrangler, like new, \$450. Chris, 363-5771.

RIMS - 8-25-14, 5 lugs; D78-14, 4 lugs; 5.60-16, 5 lugs. Dolores, Ext. 2907.

LAYTON TRAVEL TRAILER - 22', sleeps 6, full bath, kitchen, l/r area, full awning, excel. cond., must sell, \$4,900. John, Ext. 3302 or 924-0651.

DODGE MOTOR HOME - 35k orig. mi., 26', Class A, ac, generator, sleeps 6, excel. cond., \$8,500. 473-1456.

CAR RADIO - fm only, good cond., \$15; calculators, basic working cond., \$3. Susan, Ext. 7716.

TIRES - 3, 175/70SR13, \$15/ea. Bill, Ext. 4000.

Boats & Marine Supplies

30' CHRIS CRAFT - 1959, FWC, T/350 ci, low hr., VHF, Loran, DF, flybridge, much more, \$4,000 neg. Harry, Ext. 7527 or 744-2715 after 6 p.m.

22' GLASTRON AVENTURA 225 - 1981, 185-h.p. Merc. i/o, FWC, low hrs., VHF, DF, swim platform, fully equipped, \$6,500. Ed, Ext. 7943.

22' TYLERCRAFT SLOOP - w/movable keel, Bimini, furling jib, 6-h.p. Evinrude, sleeps 4, \$2,000. Sue, Ext. 7235.

20' BAYLINER - 1975, cuddly cabin, porta-potty, sink, 130 h.p. Volvo, Penta electronics, c/g pkg. \$2,500. 447-0827.

19' O'DAY MARINER SAILBOAT - 6-h.p. ob., 3 sails, fixed keel, good cond., \$2,500. Wait, 473-3295 eves.

19' FIBER FORM - 1979, i/o, new top, extras, good cond., trailer, \$2,500. 878-1178.

19' STEURY CUDDY - 1979, w/1986 90-h.p. Evinrude, VRO, trim/tilt, sink, full canvas, potty, CB, trailer, dock space, \$5,500. George, 878-8177.

19' BAYLINER - 1987, bowrider, 125-h.p. Force, full canvas, low hrs., excel. cond., \$6,000. Vinny, Ext. 2642.

17' CHRIS CRAFT - 1967, 60-h.p. Evinrude, Gator tilt trailer, CB radio, power winch, v.g. cond., \$1,800. Ext. 3859 or 286-1712.

17' TIGER CATAMARAN - hard deck, new cond. sails, trailer, \$500. Steve, Ext. 4187.

16' BOWRIDER - 65-h.p. Evin., trailer, p/winch, runs well, \$2,000. Jim, Ext. 3372 or 821-0250.

14' HOBIE CAT - jib, sail & boat in good cond., \$1,100. 878-1178.

14' ALUMINUM BOAT - w/trailer, motor & equipment, excel. cond. 289-5134.

14' HOBIE CATAMARAN - roller reefing jib, trailer, v.g. cond., \$1,600 or best offer. Ext. 7657 or 298-9560.

13' TRI HULL - fiberglass, lake boat w/trailer, Minn Kota 36 lb. thrust, elec. motor w/battery, asking \$1,000. Joey, Ext. 2950 or 758-2938.

13' BOMBARD - 1987, inflatable, 30-h.p. Mariner, w/1987 trailer, all access., great scuba diving, must sell, asking \$2,800. 474-5715.

12' ALUMINUM BOAT - 9.5-h.p. Evinrude, trailer, oars, oar locks, anchor, preserver, good cond., \$600. George, Ext. 5288 or 878-8177.

12' CRESTLINER - aluminum, semi-vee, \$300. 282-1097.

BOAT TRAILER - 20' long end to end, 6' wide outside wheels, \$200. Pete, 399-2813.

TRAILER TIRE - & galv. rim, size B78-13, 5-hole rim, \$30. Richie, Ext. 2175.

SLOOP - 90% completed, by Holman & Pye, dark blue hull, Bristol cond., could be your dreamboat with a bit of work, price neg. Jim, Ext. 4584.

SUNFISH - AMF, all new except hull, used 1 season, \$700. 286-1097.

MOORINGS - mushrooms, 2/200 lbs., \$150 ea.; 2/250 lbs., \$200 ea. Harry, Ext. 7527 or 744-2715 after 6 p.m.

Furnishings & Appliances

COUCH - 6½', grey velour-like material, good for den or playroom, very soft & comfortable, armless, asking \$65. Jean or Janice, 929-4522.

BEDROOM - contemporary, complete, asking \$350; contemporary dining room, breakfront, table & chairs, \$350. Gerry, 273-4491.

DINING ROOM - art deco set, table w/leaf, 4 chairs, china cabinet, server w/mirror. Dom, Ext. 4851.

DINING ROOM - Bennington pine, Colonial, hutch, table w/two 12" leaves, 6 chairs, needs refinishing, \$350. Jim, Ext. 2957 or 281-4541.

DRESSER - 6 drawers, \$50; toaster oven, \$20; pine TV/VCR table w/wheels, \$20; Victorian planter, \$25. Kathy, 744-2203.

FREEZER - Westinghouse, 12 cu. ft., like new, \$125; 36" mirrored triple-door medicine cabinet, make offer. Carol, Ext. 3325, or Janet, Ext. 2345.

LIVING ROOM - from the Pine Shop, all solid pine, couch/bed, 2 chairs, coffee & end table, mint shape, orig. \$1,500, \$300/firm. Gene, Ext. 5293.

HOME SPA - Whirlpool, portable, for use in any standard bathtub, \$25. Ext. 3807.

LOVESEATS - 2, contemporary, \$100 or best offer. 821-2875.

MATTRESS - twin, new, \$50; 9-piece dining room, \$125; portable washer, \$50; wall cabinets, etc. Julian, Ext. 2138.

MATTRESS - Simmons Beauty Rest Royalty, boxspring, extra long, twin, 1 yr. old, 15 yr. warranty, \$300/firm. Joe, Ext. 5131.

VACUUM - Eureka 1700 Series, canister, orig. \$75. Nick, Ext. 2490.

WING CHAIR - blue, Queen Anne style, w/roll arms & wood legs, reasonable. Bob, 878-1731.

Tools, House & Garden

DEEP-WELL PUMP - Sta-Rite, 1 h.p.; Sta-Rite Con-Air bladder-type water tank, 2 yrs. old, \$200/both. Jim, Ext. 2957.

LAWN MOWER - Jacobsen super bagger, 21" cut, re-cond., new blade, excel. cond., \$150; more. Dan, Ext. 4987 or 698-7322.

TOPSOIL - fine screened, 3-yard min. delivered; Honda generator, electric start, brand-new, \$1,800. 696-6011.

AIR PURIFIER - \$35; barbeque grill w/stand & gas bottle, \$50. Ext. 5320.

BARBEQUE GRILL - w/stand & gas bottle, \$50. Ext. 5320.

BARBEQUE - Webber, charcoal grill, like new, \$20. Ext. 4026.

BARBEQUE - smoker type, good cond., \$20. Sue, Ext. 7235.

EXTERIOR DOOR - Therma Thru, full view, 32"x80", rough opening, like new, \$55. Richard, Ext. 3082.

GARDEN HOSES - 2, Gering, ¾", 75' long, low temp., tire-cord reinforced, \$15/ea.; 100' extension cord, outdoor, \$10. E. Hu, Ext. 7113.

HUMIDIFIER - two, \$25 & \$35; infant's car seat, \$10. Carole, Ext. 7100.

IRRIGATION PIPE - 150', 3", 5 end plugs, 2 forty fives, 4 elbows, 3 tees, 1 start fitting, 10 sprinklers, \$750. 325-0193.

KEROSENE HEATERS - 2, Kerosun Omni 105 & Omni 15, \$30/both. Larry, Ext. 5462.

LADDER - alum., 24' extension, like new. 325-0447 after 6 p.m.

LAWN MOWER - Sears Craftsman, 18", reel type, old, runs well, \$35. Richie, Ext. 2175.

LAWN MOWER - Toro Whirlwind II, 21", rotary, side discharge, w/bag, orig. \$50. Nick, Ext. 2490.

LAWN MOWER - Sears Craftsman, power, 22", runs well, \$35. Jim, Ext. 3372 or 821-0250.

LAWN MOWER - gas, \$10; GE Corning cook top, \$10; 20" & 16" bicycles, \$10/ea. 689-9771.

PICTURE WINDOW - w/storm & screens, 3 panes, 122"x59", \$20; 2 wrought iron railings, \$20; storm door, 35"x82", excel., \$35. 878-6637.

STORM DOOR - new, bronze, 30", crossbuck, w/screen, at cost, \$120. Janet, Ext. 4049.

TUNE-UP CENTER - Snap-On, 3 meters, \$250; power brake bleeder, \$75; 20-ton air-assist hydraulic jack, must sell, \$175. 474-5715.

WELDER - Lincoln, Continental 4-cyl. engine, 200A, asking \$1,500. 744-3204 after 6 p.m.

WELL PUMP - Omnijet, ½ h.p., 3,450 rpm; cold water storage tank, glass lined, 3 yrs. old, \$100/both. Rich, 475-0373.

PARLOR STOVE - antique, wood burning, w/nickel plated trim, \$200. John, 744-4386.

Sports, Hobbies & Pets

BICYCLE - Columbia Pink Lady, girl's, 20" diameter wheels, 3-spd., good for 7-10 yr. olds, \$50. Nick, Ext. 2490.

BOWLING BALL - man's, \$10; golf woods, \$20; water skis, \$20; weed wacker, \$20. Kathy, 744-2203.

CLARINET - Signet, excel. tone, wood, \$250. Jim, Ext. 3372 or 821-0250.

DRUM SET - Slingerland, 7 pieces, chrome, \$200 neg. Ken, 281-5565.

DRYSUIT - Poseidon, man's large, excel. cond., must sell, orig. \$1,500, asking \$500. 474-5715.

FLOATING CHAISE - excel. cond., \$25. Sue, Ext. 7235.

GYM EQUIPMENT - West Bend, total body workout, excel. cond. orig. \$350, sell for \$100. Carol, Ext. 3325 or 3315.

HUNTING JACKET - D.R.T. bright orange, size 42, used 2 times, like new, \$30. D.J., Ext. 7643.

POOL FILTER - Hayward GM-245, high rate sand filter; Hayward self-priming super pump, like new, \$2500. Dawn or Dan, 543-9084.

POOL TABLE - 8' long, good cond., \$75. Larry, Ext. 5462.

SWIMMING POOL - ag, 24' dia., 4' deep, pump, filter, excel., best offer. 472-0690 after 5 p.m.

TENNIS RACKET - Prince, wide body, like new, \$120. Jim, Ext. 3372 or 821-0250.

TURTLE - African side-necked w/15 gallon aquarium, to experienced person only, \$15. Paul, Ext. 7697 or 689-2829.

VIBRA HARP - w/working motor, \$500 or best offer. Carol, Ext. 3325, or Janet, Ext. 2345.

Audio, Video & Computers

COMPUTER - AT Clone, 12 Mhz, 3 meg ram, co-processor, 30 meg hard drive, two 5¼ floppy, EGA card, over \$5,000 software, \$750 neg. 298-3855.

TAPENOISE REDUCTION - dbx 224X, w/manual, \$80. Willie, Ext. 3803.

TV - b&w, portable, 5" screen, new, orig. package, \$25. Trigg, 286-1262.

Miscellaneous

ANTIQUE TRUNKS - best offer. Pete, Ext. 2382 or 288-2660.

BABY'S STROLLER - Aprica 1982 Escort model, folds down to sleeper, brand-new, in box, never used, \$25. Rich, 475-0373.

ENCYCLOPEDIAS - *Encyclopedia Britannica XV*, 1974 printing, excel. cond., \$50. Trigg, 286-1262.

GOWNS - prom or bridesmaid's, all used once, new cond., sizes 8-16, \$40-\$100. Heidi, 281-7873.

MAPLE SYRUP - from family Vermont farm. Peter, Ext. 7687 or 744-1112.

CRIB - portable, wooden, mint cond., \$25. Cindy, 331-3569.

TICKETS - 2, Met Opera, *Masked Ball*, balcony, third row, matinee, Sept. 28, \$65/both. Dave or Harriet, 941-9022.

VENDING MACHINE - new, 4'h x 2'd x 2½'w, mech. type, \$100. Dan, Ext. 4987 or 698-7322.

Free

CAT - 1-yr.-old neutered male, very affectionate, needs good home. 689-9214.

CAT - 8-yr.-old neutered male, beautiful face & loving disposition. Ext. 4049 or 744-8087.

MALAMUTE - rescued, approx. 1½-yr.-old male, neutered, housebroken, intelligent, urgently needs home, prefer fenced-in yard. 924-5541.

PLAYER PIANO - needs work, you move from Montauk. 473-7681 leave message.

PUPPIES - 9, all black w/some white markings; mother, Golden Retriever, avail. 5/18. 281-0360.

STUFFED ANIMALS - for children's group, large bag, assorted. Bill, Ext. 2377 or 698-1972.

Real Estate

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

For Rent

BAYSIDE - 1-bdrm. co-op, breakfast nook, modern kit., bath, California closet, tennis, pool, beautiful area & grounds, first-class shops, rent/lease/option buy. Julia, 718-468-8097.

BELLPORT VILLAGE - 4-bdrm. house, 2 baths, large l/r, new kit., d/r, 2-car gar., OHWH, fp, all appl., furn., nonsmoker, no pets, Sept.-Jan., \$1,000/mo. Ext. 4332 or 286-2114.

CENTER MORICHES - room + priv. bath, priv. ent., l/r-kit. area semi-priv.; use of w/d & deck, \$550/mo. incl. util., single working person, nonsmoker only. Maggie, 878-0331.

EAST MORICHES - 2-bdrm. apt., ground floor of Victorian house, bath, kitchen, d/r, l/r, large yard, 3 blocks to bay, shops, school, \$680/mo. util. Mona, Ext. 5056 or 878-9384 eves.

HOLBROOK - 1-bdrm. apt., furn./unfurn., full kit., bath, l/r-d/r area, priv. ent., 20 min. to Lab., single, nonsmoker or pets, \$500/mo. single, \$550/double, util. incl. Fred, Ext. 7947 or 588-2268.

MANHATTAN - studio apt., Kips Bay area, 1 flight up, secure bldg., avail. June-Aug., furn., phone, full kit. John, Ext. 7671 or 516-765-1299.

MASTIC - 2/3 bdrm., large l/r, eik, d/r, laundry rm., near water, 15 min. to Lab., \$700/mo. all, avail. immed. Jim, 281-2849.

MASTIC - 1-bdrm. apt., newly renovated, l/r, kitchen, sep. ent., single only, \$550/mo. 281-6884.

MIDDLE ISLAND - 1-bdrm. condo, upstairs, newly redecorated, new stove, washer, dw, cac, gas heat, pool, tennis, \$675 rent, or \$75,000 buy. Kathy, 924-9464.

MONTAUK - walk to ocean beach, 3 bdrm., 2 baths, fp, deck, laundry, fin. bsmt., furn., long season avail. Jim, Ext. 4150 or Ruth, 563-8374.

PORT JEFFERSON VILLAGE - 4 bdrm., 1½ baths, fd/r, deck, heart of village yet private, \$1,100/mo. + util. 231-4151.

ROCKY POINT - 3-bdrm. ranch, l/r, eik, fin. bsmt. w/wood stove, 100 x 100 lot, fenced yard, avail. 6/1, \$850/mo. + util. Mike, Ext. 2500.

ROCKY POINT - 3-bdrm. house, bath, fp, w/w, 1-car gar., \$975/mo. incl. all. except phone, avail 6/1. A. Levine, Ext. 4660.

SHIRLEY - 2-3 bdrm. house, fin. bsmt., near shopping, \$750/mo. + util. 15 min. to Lab. Maureen, 360-3803 after 5 p.m.

SOUND BEACH - 1-bdrm. apt., full bath, kitchen-l/r combo, cable, priv. ent., \$600/mo. incl. all + 1 mo. sec. Ext. 2671 or 744-3284 after 4 p.m.

SOUND BEACH - 2-bdrm. house, full bath, l/r, eik, enc. porch, fenced yard, w/w, Miller Place SD, \$600/mo. + util. & sec. Ext. 3560 or 744-5278.

YAPHANK - 4-bdrm. restored Victorian, large treed property, patio, 5 mi., from Lab., recently remodeled, avail. now, 924-5219, 924-4872 or 924-3066.

ORLANDO, FL - 1-bdrm. efficiency suite for 4, week of 7/26-8/2, 10 min. to Disney World, \$400/wk. or best offer. Ext. 2683 or 751-2469.

MT. DESERT ISLAND, MAINE - lakefront, full furn. 1 rm. cottage w/sleeping loft, kitchenette, bath, fp, deck on Echo Lake, Acadia Nat. Park, 6/15-10/15, \$400/wk. Bob, Ext. 2514.

HILTON HEAD, SC - 2-bdrm. condo, sleeps six, two baths, pool, beach, tennis, golf course, May-Sept. \$450/wk. Guy, Ext. 3147 or 689-5378.

For Sale

CENTEREACH - 3-bdrm. Cape, fully fenced, recessed lighting, Andersens, w/w, eik, bsmt., 1½-car gar., low taxes, walk to all, Middle Country school, ask. \$114,000. Rich, 588-94