

Across The Board

So, all along, you have been laboring under the delusion that checkers is just a game played with the kids on a rainy Sunday afternoon to keep peace in the family. T'aint so. If you go deeper, you will learn that it can also be a highly analytical game played on the championship level by masters.

Leo Levitt, a physicist in DAS, is a master checkers player. He and an Englishman, Derek Oldbury, will meet in Kentucky on April 17 for the free style checkers championship of the world.

In England, checkers is called draughts. "Perhaps we should call it that here," Levitt said, "and get rid of the child's play overtones."

Freestyle is just one style of checkers and is the original form of the game. The first book in English on checkers was published in 1756, and the game has been played in English-speaking countries ever since. Freestyle is just what it says - you can make any move you want. It was abandoned in championship matches around 1900 as the "safe plays" tended to be used all the time and the matches got repetitious.

Levitt does not prefer freestyle, but there is a championship to be won, he says, and in trying to revive interest in the game, this is the style that would most interest the public. This is the first time in 50 years that checkers masters have competed in freestyle who are also established masters in other styles.

Superseding freestyle checkers in championship play until about 1930 was a game called the 2-move restriction, which had 47 possible openings. When this palled, the checker players invented the 3-move restriction with 142 possible openings. A later, more complicated development is a game called the 11-man ballot with a 2-move restriction and 3200 playable openings. This is the style Levitt prefers. "It's not profitable to prepare an opening before the game when there are 3200 possibles," he says, "and therefore it's a true test of crossboard ability." And Levitt feels that this is his particular strength. In 1974 competition in this style he placed second and Oldbury, fourth. Levitt has already issued a challenge to the champ for a match next year.

When people learn that Levitt plays checkers, the inevitable next question is "oh, do you play chess?" Yes, he does, but he prefers checkers. He notes that most checker players also play chess, but he rarely finds that the reverse is true. There is a



Leo Levitt, checkers champion, about to make a move.

"snob appeal" in chess, he says, that checkers has not yet overcome. He sees chess as more ego oriented; checkers does not seem to create the prima donnas for which chess is famous. He attributes this to the fact that in checkers "you're playing the board, rather than the opponent. The pieces are tightly interrelated and you can't retreat as in chess. Once the move is made, that's it." Levitt frequently uses the phrase "more precise" in comparing checkers to chess.

Not only chess players stay riveted to a game for hours. Levitt can recall one checkers game that lasted from 9:30 a.m. to 3:30 p.m., leaving him totally exhausted. In his upcoming match, four games a day for five days of play are scheduled. This, of course, will depend on the length of the individual games. Since there is a distinct possibility that the match will result in a tie, another two days can be expected for playoffs.

Levitt learned the game when he was eight years old and, except for a couple of inactive periods in college and the 1960's, has been playing ever since. At 18 he was the world's junior champion and he has held the Indiana, Ohio and California state championships. In a 3-move restriction match in Bournemouth, England in 1973 between the English and the Americans, the third match in this century, the Americans won 79-21 with 100 games drawn. Levitt was the top scorer for the American team.

Levitt's scientific expertise lies in applied reactor physics and nuclear data testing. He is on the staff of the National Neutron Cross Section Center at DAS and came to Brookhaven last summer after spending 15 years in California, principally at Atomic International. He says "the same kind of mind that tends to go into science would probably be interested in checkers."

Checker players never get rich just playing checkers. The purse that Levitt is competing for in April is \$3,000. To live off the proceeds of a checkers career, playing and writing about it, one would have to live very simply. "You'd do better on unemployment insurance," says Levitt. If there were a resurgence of interest in the game, perhaps the years of preparation and study necessary to make checkers a career could be as rewarding as other professional fields.

Checker clubs used to flourish in the U.S. but are now in decline. The American Checker Federation is headquartered in Baton Rouge, La. and can be contacted by people who wish to join. Levitt said he would be glad to help set up a club at the Laboratory if enough interest is shown.

A Third Pump

In case you haven't noticed, the gas station on site has now added a premium gas pump to the regular and unleaded pumps. This is the first time premium gas has been available on site since mid-1974.

Nursery School Open House

Upton Nursery School extends an invitation to parents of both current and prospective pupils (with or without their children) to visit the Nursery School while it is in session on Thursday, April 8 and Friday, April 9. A filmstrip on child learning and development will also be shown. Nursery school board members and staff will be available to answer questions of laboratory employees about the nursery school on the above dates during the lunch hour.

If you cannot come on these days, please call the nursery school at extension 3033 and arrange with the respective teacher to attend on another day. Separate classes for three and four year olds meet from 8:30 to 11:30 a.m. on Tuesday-Thursday and on Monday-Wednesday-Friday. Each class has a different teacher. Further questions should be directed to Marcia Littenberg, 744-4789, or Linda Lynn, 924-8329.

CERN Accelerator Being Commissioned

CERN's 400 GeV accelerator (called SPS for "Super Proton Synchrotron"), which will be Europe's largest accelerator, is now in its last phase of construction under the French-Swiss border near Geneva. The project started in 1971 and is expected to be complete by 1979.

According to a press release, the first beam of protons at 10 GeV will be brought from the PS injector on April 5 as far as the end of the 1 km transfer tunnel leading to the SPS. During the remainder of April, the 10 GeV beam will be refined and matched to the requirements of the SPS, followed by tests of injection into the SPS.

The CERN accelerator will be comparable in size and capability to the U.S. accelerator at Batavia.

Aronson Named Deputy Chairman

Dr. E.P. Cronkite, Chairman of the Medical Department, has announced the appointment of Robert B. Aronson as Deputy Chairman, effective April 1. Aronson has served as Associate Chairman since 1972. He joined the Medical Department in 1960 and worked with Dr. Donald Van Slyke in collagen research. In 1971 he accepted full time administrative duties in the Chairman's Office.

In his announcement, Dr. Cronkite said that "in his new capacity, Dr. Aronson will be able to exercise his talents more effectively in assisting the Department adjust to the objectives of ERDA and to the programs of other government agencies with which we are associated."

The Russian Caper

Another project in the spirit of international cooperation is underway at Brookhaven. Through the Purchasing Department, Eric Forsyth's superconducting power transmission group has sent out final specifications for bids on helium refrigeration equipment to be delivered to Russia on loan for a period of five years.

Superconducting power transmission is one of several areas of technology selected for exchange between the U.S. and the U.S.S.R. in agreements initiated about four years ago. ERDA has provided \$950,000 in funds for the vital refrigeration units, and Brookhaven has been selected to manage the design and procurement of this equipment. On the other side of the coin, the Russians are sending a cable for evaluation to the U.S. and it may be tested at Brookhaven.

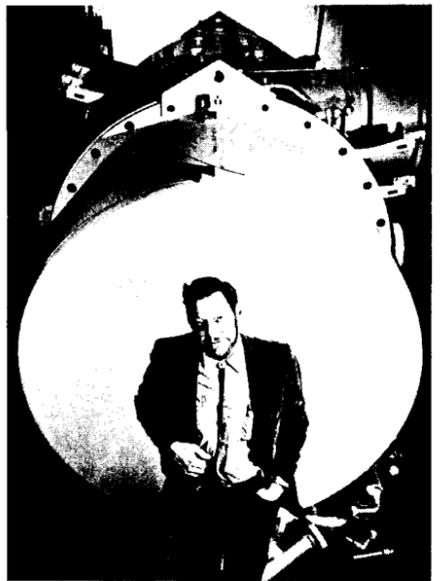
The instrument through which these changes are implemented is called the U.S. - U.S.S.R. Organizing Committee. Jack Jensen of the Power Transmission group is Brookhaven's representative on the U.S. half, which is named the U.S. Committee for Technological Exchange in the Field of Superconducting Power Transmission. Brookhaven's Russian interpreter, Steve Amoretty, is official Secretary of the U.S. committee.

In working out arrangements, Jensen has made three trips to Russia, starting in October 1973 and again in June 1974. On his third visit in September 1975, he carried draft specifications for the refrigeration equipment for Russian approval and, on his return, incorporated last-minute changes into the final specifications.

The Power Transmission Project has been active at Brookhaven since 1971. They are now in the process of "bolting together" pieces of equipment which they have been assembling for some time down at the end of Fifth Avenue, under the supervision of Bob Gibbs, for tests under field conditions.

Because the Soviet Union has wide ranging technical requirements for the refrigerator, the unit designed for them will be about 1,000 watt, with an operating temperature at 6° K, about twice as big as the Brookhaven unit now under construction.

Writing specifications for such an undertaking requires great care and the legal complexities are not trivial, says Forsyth. There are many problems to be overcome. For instance, Russia has a different power supply than the U.S.; the motor will prob-



Jack Jensen in front of a cold box, part of a helium refrigeration unit under construction at Brookhaven. Jensen acts as the Power Transmission Project's "Ambassador to Russia" in the procurement of similar, but larger, equipment for that country.

ably have to be made and tested in Europe; much of the instrumentation needed to get the refrigerator in operation is not available in Russia and will have to be transported from the U.S.

In general, the Russian supply of helium is not as pure as that of the United States. Pure helium is a must in the operation of the refrigerator. "By the time you refrigerate helium, every other element is frozen," says Forsyth. "Air or other gases are a contaminant and when they freeze, it's just like pouring in sand." Brookhaven is one of the

(Continued on page 2)

Stony Brook Events

An April Fools Festival and Medieval Tourney will be held at SUNY, Stony Brook on Saturday, April 3. The event will begin at 11:30 a.m. with a procession from the Student Union around campus and back to the tourneying field. Tourneying will begin on arrival at the field. Events will include a Tug-O-War and a free feast of cold pies, bread, wine and cheese in the Union Ballroom at 5:00 p.m. Dancing (with instruction) after dinner. Medieval dress requested but not required. For further information call Flieg Hollander, extension 4382 (at BNL).

Lecture/Recital: "The Story of Yiddish Folk Song" by author Ruth Rubin, April 4, 1:00 p.m., Stony Brook Union Auditorium.

Lecture: "An Evening with Elie Wiesel," author, April 4 at 8:00 p.m., Stony Brook Lecture Center, room 100. Admission \$2.50, students \$1.

Concert: Dutch soprano Elly Ameling, April 5 at 8:00 p.m., Stony Brook Union Auditorium. General public \$5.

Lecture: "My Philosophy as a Jewish Writer" by author-playwright Issac Bashevis Singer, April 7, at 8:00 p.m., Lecture Center, room 100.

Lecture: "The Lion's Den: The Court of Appeals - Who Are the Lions?" Hon. Charles D. Breitel, Chief Judge of the N.Y. State Court of Appeals, April 8, at 8:00 p.m., Lecture Hall 001, Earth and Space Sciences Bldg.



Accelerator Department Chairman Mark Barton (right) shows the copper strand braiding machine at ISABELLE project to ERDA Deputy Administrator Robert W. Fri.



Bruce Klemm (left), staff member of the Engineering Division, DAS, demonstrates a CFR engine which is used for fuel research, to ERDA Deputy Administrator Robert W. Fri (center) and Kenneth Hoffman, DAS Associate Chairman for Energy Programs.



From left, DAS Chairman Joseph Hendrie, ERDA Deputy Administrator Robert W. Fri, John V. Flynn, Special Assistant to Dr. Fri, and Frank Salzano at metallurgical sample display in DAS radiation lab.

French Film To Be Shown

The French Group of BNL will sponsor a showing of the film "Forbidden Games" (Les Jeux Interdits) at Berkner Hall on Friday, April 9, at 8 p.m. A donation of \$2 will be requested from non-members. Refreshments will be served after the movie.

This film, directed by Rene Clement and released in 1952, has become a classic anti-war statement, although like another famous French film, "La Grande Illusion," it conveys the wanton waste of war without a single battlefield scene.

"Forbidden Games" won several awards, including the Grand Prize of the 1952 Venice Film Festival, the Academy Award for the Best Foreign Language Film of 1952, and the New York Film Critics' Award for the Best Foreign Film of 1952. The film is in French with English subtitles.

Arrivals & Departures

Arrivals

Michael W. Belinsky Plant Engr.
 Bernard F. Brennan Safety & Env. Prot.
 Taiyih Chang Applied Science
 Raymond J. Fox, Jr. Ph. & Gr. Arts
 Claire Grosso Plant Engr.
 Rafael Jimenez Plant Engr.
 Hidehiko Watanabe Biology

Departures

Richard P. Leary Biology

SUNY Math Registration

Advanced registration for the fall term of the Stony Brook/BNL extension program in Applied Mathematics for new and continuing students will be held on Tuesday, April 27 from 10:00 a.m. to 12 noon in the conference room of the Radiation Division, Bldg. 318.

Courses in Applied Mathematics to be given at BNL are: MSA 506 Finite Structures (combinatoric and graph theory) on Tuesdays, 5:30 to 8:00 p.m.; and MSA 571 Statistics II on Wednesdays, 5:30 to 8:00 p.m.

Professor Daniel Dicker and Mrs. Esther Weitzman will be present to register students and to advise them concerning their course plans.

Cafeteria Menu

Week Ending April 9, 1976

Monday, April 5	
Corn Chowder	
Beef Liver & 1 veg.	1.10
Scrambled Egg, Sausage & Fr. Fr.	1.05
Tuesday, April 6	
Beef Noodle Soup	
Knockwurst & Sauerkraut	1.05
Sauerbraten & Potato Pancake	1.30
Wednesday, April 7	
Cream of Potato Soup	
Beef Chop Suey on Rice	1.05
Special	
Davy Jones Fish Fry	
\$1.40 plus tax	
Thursday, April 8	
Chicken Vegetable Soup	
Cheese Ravioli & 1 veg.	1.00
Roast Chicken w/ Stuffing & 1 veg.	1.10
Friday, April 9	
Clam & Celery Soup	
Spaghetti w/ Clam Sauce	1.05
Breaded Pork Chops & 1 veg.	1.30

Caper

(Continued)

largest helium users in the country, and there is a lot of expertise in this area available on site. "Ultimately," says Forsyth, "this refrigerator has to run with the same reliability as your kitchen refrigerator."

Equipment which can detect air and other impurities to better than part of a million has been assembled by Bill Harrison in building 815. At present this is a laboratory procedure, and Harrison is developing ways to turn it into a routine on-line operation. Even though there are a lot of problems, "it's the state of the art," says Forsyth. "It doesn't require a scientific breakthrough to achieve it."

Helium refrigerators can be designed in many ways; a complicated combination of operating conditions is required, but no one type of refrigerator has been excluded in the specifications. Given the nature of the problem, the successful vendor will be selected on the basis of what is the best bid, not necessarily the lowest. When draft specifications were announced some months ago, about 14 companies indicated interest.

Reviewing the bids, which are returnable by June, is a Brookhaven internal review committee of which Jensen is chairman. Don Brown and Al Schlafke of the ISABELLE Division and Bob Gibbs of the Power Transmission Project are the other members of the committee.

It will take about two years before the "Russian caper," as Forsyth has dubbed it, is completed and operating. Jensen, who is becoming a familiar figure on the Russian scene, will probably make a fourth trip to Moscow to help put it all together in the final stages.

Hospitality News

The morning coffee will be held on Tuesday, April 6, at the Brookhaven Center, from 9:30 to 11:30 a.m. Babysitting will be provided at no cost as usual.

Dr. Ruth Cusak, a nutritionist with the Suffolk County Department of Health Services, will share with us some interesting and new developments in her field. She will also be glad to answer any questions you may have.

Please come and enjoy a morning with us.

Tune In!

#403

I have recently purchased a Datsun and have cut my fuel consumption and bills in half. As I look around the Laboratory I wonder why the greater number of vehicles can not be replaced with four cylinder vehicles (such as Chevrolet Vega pickups and sedans or even Chevettes). Many of the buildings do not need the large vehicles they currently have. I believe this would serve greatly on fuel and maintenance.

Answer:

Your interest in conservation and economy for Brookhaven National Laboratory is appreciated. Your acquisition of an economic vehicle which pleases you is congratulated.

However management of the 270 vehicles employed at the Laboratory involves several constraints imposed by law or regulation and good management practices.

We are constrained to buy from the General Services Administration and use the types of vehicles for which they have standard specifications.

They, in turn, are required to go out for bids to American manufacturers of vehicles to meet the needs of all Federal Agencies.

GSA does not offer any four cylinder trucks, nor are any manufactured in USA. Only recently has GSA offered any compact or sub-compact sedans some of which have a four cylinder engine option.

There is no such thing as a Vega pickup. Chevrolet's Luv and Ford Courier are foreign made vehicles.

No general purpose vehicles are acquired for a specific group or building. All vehicles are rotated from high usage to low usage situations. This rotation is required by regulation and is a good management practice which requires one to utilize as few different types of vehicles as possible. This in turn simplifies maintenance of the fleet and precludes the purchase of vehicles which do not meet a broad range of usage throughout the seven to eight years we keep them.

Official & Special Events

- Sunday, April 4**
New York Polyclinic Hospital Tour (April 4-6)
- Tuesday, April 6**
Columbia University Science Writers' Visit (April 6-7)
- Thursday, April 8**
ACS Tour

What Did He Say?

Herewith, a second set of puzzlers which translates into well known sayings. In case you missed the first go-round, the following example will show you what we mean:

Prompt suturing enables the baseball team to survive

translates into

A stitch in time saves nine

The puzzlers and their authors are:

1. Hindu goddess repairs lamp. (G.H. Vineyard)
2. Surveillance should precede saltation. (Anon.)
3. Obmutescence is indicative of a 50th anniversary. (R. Tucker)
4. Opting on the part of mendicants must be interdicted. (Anon.)
5. Do not score at tennis and avoid fighting. (N.P. Rathvon)

The answers will be published next week. Send your contribution to the *Bulletin* for publication in a later issue.

Stockrooms Close April 9

In order to complete the annual Physical Inventory of stores materials, all stockrooms will be closed on Friday, April 9, 1976. Users are requested to withdraw sufficient supplies prior to the normal stockroom closings at 3:00 p.m. on Thursday, April 8, 1976. Emergency requirements can be obtained by calling the Supply and Materiel Division office, Ext. 2972 for approval and withdrawal instructions.

The closing of stockrooms does not effect departmental stockrooms or the delivery of Liquid Nitrogen, Liquid Helium, Dry Ice, or Compressed Gases. Your cooperation in keeping emergency requests at a minimum is appreciated.

Nets Playoff Tickets

BERA has purchased 25 tickets to the first ABA playoff game scheduled on Friday, April 9. The sale of these tickets will begin on Monday, April 5, at 7:30 a.m. in the BERA Sales & Services Office in the Cafeteria.

As a special note, the evening will be billed as "Roosevelt School Sports Survival Night" with a portion of each ticket, which will sell at no increase in regular season prices, to be donated to the Roosevelt School District to keep scholastic sports alive. Although this game will have a very special appeal in its own right, the Nets are planning to include some top flight entertainment following the game.

Remember, BERA has only 25 tickets available at \$8.50 each. Don't wait and be disappointed; get yours on Monday.

Wanted: Craftspeople

The Hospitality Committee is looking for persons skilled in leather working, wood carving, and rug hooking. If you are interested in demonstrating these crafts at the Hospitality Committee's spring tea party, please contact Stephanie Morris, 981-8370, or Lela Radeka, 286-0854.

Soccer

John Skalyo

The first game this past Friday fixed the league standing when DAS-CHEM-MED beat AGS (1-0) on a goal by Feiler. The next two games of the evening were scoreless ties; thus ended the indoor season.

The top scorer in the league was Fleischman with 13 goals, followed closely by Murtagh with 12 goals. Next were Batchelor (8), Emery (7), Hernan (7), Oldham (7), Bottcher (5), and Sickles (5).

The soccer play will shift to the outdoors on April 5, Monday evening.

The first home game of the year is tentatively set for 1:00 p.m., Saturday, April 10 against St. John's University. Persons interested in playing should contact Ralph Fairchild, extension 3649.

Final Standings

	W	L	T	Pts.
PHYS-AMD-INST	15	10	10	40
DAS-CHEM-MED	14	14	8	36
AGS	14	19	2	30

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Oops!

We were looking at an incorrect list when we reported that Martin Plotkin, with #28, held the lowest life number. (Sorry, Marty.) It's held by Charles Osborne of the Reactor Division and it's #26. (Sorry, Chuck.)

Bicycle Tours

A beginner's bicycle tour will take place Sunday, April 18 (rain date April 25). We start at Berkner Hall at noon sharp, lunch at Wildwood Park and return past the Shoreham reactor. The total distance is about 25 miles and will take about 4 hours.

The Bicycle Clubs of Long Island (BCLI) is sponsoring an overnight tour of eastern Suffolk on May 15, 16 starting at the Yaphank County Center, and passing through Westhampton Beach, Sag Harbor, Greenport and return via north fork.

Additional BNL tours will be scheduled later depending on demand and volunteers for leading. For further details on either tour, contact Gerry Morgan, Bldg. 815, Ext. 4841.

Bowling News

Cathy Van Noy

Pink League

The "Pinsplitters" are still leading the league with a six point lead over the second place "Spares." High games for the evening were K. Conkling 179, B. Jellett 177, J. Vail 169, H. Keeley 166-158, M. Brenner 164, D. Pion 161, R. Flack 157, R. Piccione 157, M. Stoeckel 157, S. Montanez 153, R. Rosati 154, C. Schuette 152, G. Fales 150-151 and L. Boyd 150. High gross pot was won by D. Bartelt.

Black N Blue League

At the midpoint of the last third the "Good Guys" who have taken eleven points for three nights of bowling have nudged the "Nocounts" out of first place. The high game of the evening was rolled by Dick Murgatroyd with a 235. High gross pots were won by Dick Murgatroyd 263 and Diane Schug 218. On lane 30, Howard Antonio had the dubious distinction of being able to turn on the red light above the pins.

Red League

The league is bunching up and ready for that last final surge. There are only six nights of bowling left and the last place team still has a good shot at the second half crown. It is going to be a very tight race. 200 games were D. Klein 223, B. Jones 213, F. Pachinger 207, E. Meier 205 and R. Adams 205.

Green League

"Congrats" to R. Eggert on winning his club award with a 201-212-213 for a 626 scratch and 707 gross series. The "Soc-Et-Tuums" also rolled a new team high of 3121. The "Charley Browns" edged into second as they took eight from the "Sandbaggers." The "Blue Jays" managed to take eight from the "Trouble Shooters." The "Got-A-Hit-ums" took eleven and are still leading the pack. Other 200 games were F. Stahman 201, G. Speidell 200, L. Chirco 204, H. Haller 204, B. Belligan 207, T. Iarocci 208 and J. Carroll 223.

Purple and White League

The "Alley Oops" opened with a three point lead over the "Flounders" and the "Sea Gulls" who are tied for second place in the final quarter. Gail Thompson led the "Alley Oops" with a 211-503 scratch and 261-683 gross for club award. These were all new league highs. Other high games were Virginia Walker 163, B. Belligan 209-548, Jon Scott 206, Art Lippman 203 and Gene Hassell 200.

Long Island Bowling Tournament Winners



BNL bowlers who brought home the Incentive Trophy from the L.I. Industrial Recreation Association tournament are from left, Ralph Nelson, Ed Meier, Team Captain Joe Scesny, Ed Sperry and Bob Jones.

BNL Bowlers Take A First

The men representing the Laboratory in the Long Island Industrial Recreation Association bowling tournament brought home the coveted Incentive Trophy for the first time. If the same team repeats its win three years in a row, the trophy remains in its possession. BERA will display the magnificent trophy at the Cafeteria soon.

The competition was great as our team bowled against some of the best bowlers in many of Long Island's leading industries.

Grumman was leading throughout the four weeks of competition and it appeared their victory was assured. However, on the last night the tables were turned and the Airborne Instrument Laboratory team, who were in 4th place, won in the division standings and BNL, who were 3rd in the Incentive, edged out Grumman in that division and won the 1st place trophy.

Congratulations to Joe Scesny, Ralph Nelson, Ed Sperry, Bob Jones and Ed Meier for a job well done.

Volleyball

Joe Mead

Mens League Results Week of March 24

Spikers	3	Circuits	0
Cool Tools	2	Atom Spikers	1
Easy Aces	3	Busters	0

Mens League Standings

	Won	Lost
Spikers	20	4
Cool Tools	18	6
Atom Spikers	14	10
Busters	8	16
Easy Aces	7	17
Circuits	2	22

Mixed League Standings

	Won	Lost
Trolls	40	5
Terabits	37	8
Diamonds	25	20
Nuts & Bolts	25	20
Set Ups	21	24
Spikers	16	29
Medicine Ballers	10	35
High Balls	6	39

Runners' Corner

The 3000 mile race between BNL and Westinghouse started on April 1. All previous 3000 milers have been, or will be, contacted about participating. The ground rules are essentially the same as in the other challenge races. The weekly results should be sent to Ann Nauman, Bldg. 463, on a form that will be supplied. For further details contact Bill Thomlinson, ext. 3978, or Jim Guppy, ext. 2698.

The official log book for the 1000 Mile Club has now been issued, and those runners who have expressed an interest will be notified as to where they should send their cumulative distances. (Remember, this started as of Jan. 1, 1976.)

Plans are still being drawn up for the big 17.76 mile relay to be held May 9. Runners who have participated in previous events will be given their handicap times and new runners who plan to participate will be asked to give their best time for a given distance. The team will be chosen in a random fashion, with the members selected being notified well in advance of race time.

Classified Advertisements

Placement Notices

Each week the Personnel Office lists personnel placement requisitions, currently being processed. The purpose of these listings is, first, to give notice of all non-scientific staff positions being filled and, second, to give employees an opportunity to request consideration for themselves through the Personnel Office. In filling vacancies, the Laboratory's objective is to give first consideration to present employees, as follows: employees within the immediate group having the vacancy, employees within the department or division, employees within the Laboratory as a whole.

For further information regarding a placement notice, or to request consideration for an available position, contact Supervisor, Personnel Placement & Development, extension 2874 or 2882.

66. SENIOR STATIONARY ENGINEER - To operate, repair and maintain heat generating and auxiliary equipment. Current stationary or marine engineer's license desirable with a minimum of 5-7 years' experience, including a working knowledge of high pressure boilers firing #6 oil. Shift work. Plant Engineering Division.

67. STEAMFITTERS - Trade qualified individuals to lay out, construct, install, and maintain heat, steam and water distribution systems and related equipment. Temporary positions. Plant Engineering Division.

68. MESSENGER - Application deadline: April 12, 1976. Staff Services Division.

69. DEPARTMENT ADMINISTRATOR - Will be responsible for the administrative operation of the Safety and Environmental Protection Division and the Laboratory's general (non-group) insurance program. Will be expected to develop and implement policies, budgets and controls for effective utilization of physical and financial resources. Safety & Environmental Protection Division.

70. INDUSTRIAL HYGIENE ASSOCIATE - BS degree or equivalent in Industrial Hygiene/Chemistry with experience in identification, evaluation and control of potential occupational health hazards. Safety and Environmental Protection Division.

71. FIRE PROTECTION ENGINEER - BS degree or equivalent experience in analysis and design of fire protection systems for experimental equipment and plant complexes. Safety and Environmental Protection Division.

72. SECRETARY - AAS degree or equivalent in secretarial science with technical typing experience. Department of Applied Science.

73. OFFICE SERVICES ASSISTANT - Temporary position. Director's Office.

Autos & Auto Supplies

SNOW TIRES - (2) Good Year Suburbanite polyglass belted, L78x15, mounted on GM wheels for Cadillac, used 1 season. \$75. Ext. 3828, 751-7250.

RIMS - (2) 4-hole VW. \$5 each. Charlie, Ext. 2957, 744-3312.

71 TOYOTA - New tires, clutch, carburetor. Steve, Ext. 4008, 265-1436.

71 TOYOTA - Corolla 1200 station wagon, 27 mpg, needs 2 tires. \$800. 475-0126 after 5.

68 MERCURY WAGON - Auto, 302, V8, ps, a/c, trailer hitch. \$500. Ext. 4547, 265-3731.

66 MERCURY - Colony Park station wagon, 9 pass, a/c, am/fm, very clean, 93,000 mi. Paul, Ext. 2476.

74 PLYMOUTH - Fury III, 4 dr, hard top, ps/pdb, a/c, am/fm, more, must sell immediately. Reasonable offer. Mike, 751-2149.

TIRES - (4) B78-14, almost new. \$15 each. 878-0123 after 5.

SAABS - Konis Mich XAS, both good running cond, economical, 1968, \$695; 1965, low mileage, \$495. David, Ext. 3501.

76 BUICK - Century custom, white w/red interior, radial tires, mags, am/fm stereo tape deck, a/c, Hearst hatch sun roof. 981-5993 after 6.

RIMS - (2) VW, 4 holes. \$5 each. Charlie, Ext. 2957, 744-3312.

75 PONTIAC - Astre hatchback, 7000 mi. \$2950. 473-1967.

69 CADILLAC - 67,000 mi. \$1450. 878-1017.

68 VW BUS - 81,000 mi, engine 38,000 mi, very good cond, one owner, reliable, reasonable, on site Fri. Ext. 6671.

KAR CHECK TACH - Dwell Meter, \$5; Bosch tune-up kit for VW Beetle 1500, \$5. Fred, 475-4935.

72 PINTO - Excel cond, 30,000 mi. \$1395. 281-6191 after 5.

OIL FILTER - Lee LF-1HP, \$2; (2) 13" snow tires on Valiant rims, \$6.50. Marty, Ext. 3941.

65 SAAB - Good cond throughout, low mileage for year, very econ. \$495. David, Ext. 3501, 286-8097.

65 VOLKS - Squareback, wrecked w/newly rebuilt engine, many new parts. \$250. Dominick, Ext. 2906.

VOLTAGE REGULATOR - Fiat, brand new, 12 V, 28 A, Fiat part #4062890. \$5. Ext. 4463.

70 TOYOTA - Mark II, well maintained, good econ transportation, am/fm radio, auto trans. \$1000. Rich, Ext. 3588.

65 MUSTANG - 289 high performance, auto trans, p/s, car completely rebuilt by Ford dealer, like new. \$1250. 281-7595 after 6.

67 HONDA - 305, custom 8" extension, king-queen seat, engine in top cond, custom paint. \$600. Tom, 399-0836.

VW WINDOWS - Back & side for 62 VW, \$5 each; VW rims, \$5 each; 13" Sunbeam rims, 4 hole, \$5 ea. Ext. 3499.

68 CHEVY NOVA - 2-dr hardtop, 6 cyl, auto, p/s. \$550. 289-1313 after 5:30.

72 HODAKA - Super rat, 21" front wheel, reed valves, ported jug, extended swing arm, excel cond. \$400. Tony, Ext. 4612.

72 HONDA - CB350, low mi, excel cond. \$800 or best offer. 281-5136 anytime.

PLYMOUTH ENGINE - Slant six w/standard trans. \$100. 878-2810.

75 GREMLIN X - Auto, big 6 cyl, ps/pb, am/fm stereo, 4 spkr, cassette deck, white letter steel radials, 15,000 mi, 20 mpg. \$3200. Ext. 3510.

74 JAWA - 90 cc road & trail motorcycle, 3000 mi, clean. \$250. J. Guthy, Ext. 2902, 929-8287.

HELPER SPRINGS - Sears for Chrysler 1960-1970. \$16. 475-1683.

75 KAWASAKI - K2, 1800 mi, luggage rack, crash bars, 2 helmets, leather jacket. \$1100. Roger, 732-9815.

71 SUZUKI - TS 185 cc, road & trail, 2 cycle, oil injection, pointless electronic ignition, w/helmet, 10,000 mi. \$290. Joe, Ext. 4254, 281-7683.

73 OLDS - Toronado, 23,000 mi, fully equipped. \$3800. 472-0531.

66 COMET WAGON - 6 cyl, standard shift, very good cond. \$450. Rhodus, Ext. 3284, 924-3522 after 5.

63 FALCON - 2 dr hard top, 6 cyl, auto, very good cond. Rhodus, Ext. 3284, 924-3522 after 5.

74 ZUNDAPP - Motorcycle for trail or street, excel cond. \$400. Oscar, Ext. 4719, 878-4513.

Boats & Marine Supplies

23' INCA IMP - 73, 225 hp OMC engine, in/out board, convertible w/camper top. \$7300. 475-2253, 249-7665 after 6:30.

EVINRUDE - 1959, elec start, 50 hp, new plugs, completely checked over, still in winter storage, mint cond. \$150. Joan, Ext. 2549.

16' MIRRO-CRAFT - 1975, aluminum, console & steering wheel. \$600. 286-9485.

36' CHRIS CRAFT - Constellation, twin Chrysler, vhf & cb radio, depth finder, swim platform, well equipped. 744-8655.

26' RHODES MACKINAC - 5000 lbs displacement, main sail, working jib & furling genoa, 3/7" draft. Asking \$7300. 727-3048/727-2302.

34' BALTZER - 1953, twin 125 Chrysler crown eng, camper back, excel family or fishing boat. \$3700. 331-1718.

SNEAKBOX SAILBOAT - Hull, rudder good cond, needs new mast & sails. Less than \$100. Write Box 277, Brookhaven, NY 11719.

14' MACKEE CRAFT - Whaler type runabout, 1968, 55 hp Johnson electric start, Teleflex steering, well maintained, very good cond. C. Goodzeit, 286-0271.

22' GARVEY - Decker over cabin, fiberglass bottom, 40 hp Evinrude. \$800 or best offer. Pete, 744-3807.

20' SAILBOAT - Sleeps 2, 4 wheel trailer, winter cover, fiberglass bottom, \$800 or best offer. Pete, 744-3807.

WORK BOAT - Outboard, Novi, 1974, 26', 8' wide draws 1', very large self bailing cockpit, teleflex steering, extras. \$950 or best offer. Pete, 744-3807.

16' GARVEY - 1 yr old. \$300. Walt Chornoma, Ext. 3254.

67 EVINRUDE - 40 hp outboard motor, good cond, will demonstrate. \$200. Steve, 286-1235 after 6.

Miscellaneous

CHESTS - (2) painted pine 4-drawer, 16"x26"x36", \$15 each; oval mirror w/oak frame, 20"x26", \$15. 878-0123 after 5.

ELECTRIC DRILL - Black & Decker, 1/2", 110 v, 4 amp, 475 rpm, heavy duty. \$25. Ext. 4692.

BABY ITEMS - Swing set, car seat, wooden play pen, easy-fold stroller. Bob, 732-9517.

CONTENTS OF OLD HOME - Some antiques, Apr 3 & 4, 10 am - 4 pm, Middle Island Rd, Yaphank. 924-6918.

TV - GE portable, 12", excel cond. \$40. Fred, 475-4935.

