



BROOKHAVEN BULLETIN



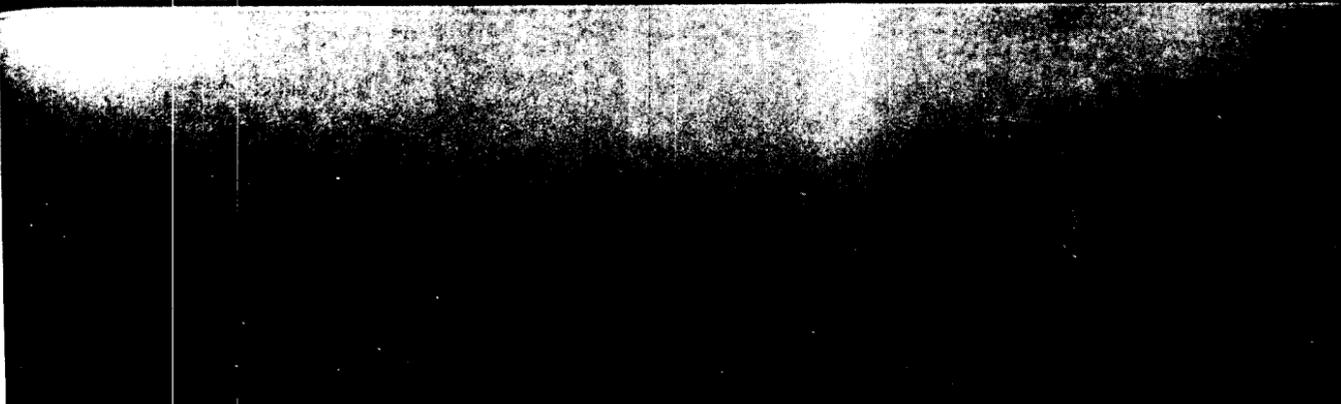
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1946 - Twenty-five Years of Dedicated Research - 1971

December 9, 1971

Belgium Students Visit Lab



Twenty-four students, a professor and a dean of the University of Ghent, Belgium, toured the Lab last Friday. Before coming to Brookhaven, the group visited the U.N. in New York. After leaving the Lab they will go to Boston to see MIT, and then to Washington before returning to Belgium.

While at Brookhaven, E. McFadden of Applied Math explained the procedures at the computing center to the touring students. They also visited the High Flux Beam Reactor, the Linac and the AGS, and the High Intensity Radiation Development Laboratory.

V.R. O'Leary Named Associate Director

Dr. Maurice Goldhaber, Director of Brookhaven, announced recently that on January 1, Assistant Director Vincent R. O'Leary will be promoted to Associate Director for Administration.

Mr. O'Leary's responsibilities will be enlarged at that time to include supervision of Plant Engineering and Planning. He presently is responsible for the Divisions of Purchasing, Supply and Materiel, Systems and Data Processing, Photography and Graphic Arts, and Staff Services.

Mr. O'Leary joined the BNL Staff in April of 1957 as Administrative Officer in the Nuclear Engineering Department. In January of 1962 he became Assistant Director of Architectural Planning, and in October 1962, he was appointed Deputy Budget Officer. In July 1966, O'Leary became Budget Officer, and on July 1, 1968, was appointed Assistant Director for Financial Planning. On July 1, 1969, he became Assistant Director for Financial Planning and Business Management.



Mr. O'Leary received his BBA from St. John's University, Brooklyn, and a MBA from New York University. He is a former member of the faculty (evening session) of C.W. Post College, having taught Management and Business Mathematics there for four years. He is an active member of the American Management Association.

O'Leary saw service with the U.S. Army in the Counter Intelligence Corps, Vienna, Austria.

Active in civic affairs, O'Leary is Committee Chairman of the Boy Scouts of America Troop 117, and merit badge counselor for the Brookhaven area. He is a member of the Board of Directors of the Suffolk County Chapter of the American Red Cross, and the Past Chairman of the Board of Fire Commissioners of the Stony Brook Fire District.

Mr. O'Leary and his wife, Barbara, live with their five children in Stony Brook.

SLAC Facility Bombed

The FBI is investigating the bombing Tuesday of the facility housing the world's longest atomic accelerator at Stanford University in California. Officials say that two bombs thrown into the west end of the two-mile long research facility caused up to \$100,000 damage. The Atomic Energy Commission in Washington says preliminary information indicates there was no damage to the atom smasher, no radiation leaks, and there were no injuries.

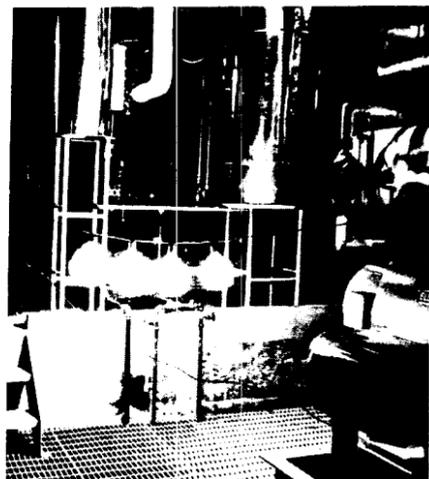
Art Exhibit

An exhibit of ink drawings by George Cox, Photography and Graphic Arts, representing scientific, engineering, and technical activities at Brookhaven National Laboratory during the years 1960-62 is on view at the Research Library, 25 Brookhaven Avenue.

Nuclear Power Anniversary On December 13th

With nuclear power receiving increased use for the generation of electricity in most parts of the country, a little known anniversary is being celebrated in Idaho on December 13. Twenty years ago, December 1951, a nuclear reactor at the National Reactor Testing Station near Idaho Falls generated the first useful amounts of electricity from the fissioning of atoms and nuclear-power generation was born.

On that first occasion, only four light bulbs were lit. On the next day the entire building of the EBR-1 experimental breeder reactor was operated on nuclear electricity.



Lighting of these four bulbs on December 20, 1951, marked the first production of usable amounts of electricity by nuclear means.

On December 13, an observance of the anniversary, sponsored by the communities of Eastern Idaho, will honor Dr. Walter H. Zinn and his co-workers in that historic effort. Recent accomplishments at the Idaho site in the development of the breeder reactor will be on display for industrial leaders and the national and local news media. The observance will be led by William O. Doub, one of President Nixon's recent appointees to the U.S. Atomic Energy Commission, and by Idaho's member of the Joint Committee on Atomic Energy, Congressman Orval Hansen.

The anniversary focuses not only on the rapid development of nuclear power, but also on the twenty years of experience with breeder reactors. From four light bulbs to economical million-kilowatt plants is one of the major technical achievements of the past two decades. The feat was accomplished with reactors less efficient than the

fast breeder, whose technology has been developing much more slowly.

Breeder reactor technology is now judged by the experts as ready for full-scale development to meet the power needs for many years to come. President Nixon last June therefore selected the fast breeder, a new concept to most Americans, as a national commitment for the seventies.

The nuclear age began almost ten years before 1951. In 1942, the late Enrico Fermi and his co-workers successfully demonstrated the principle of the nuclear chain reaction by building the first nuclear reactor under the stands at the University of Chicago athletic stadium. Even before then, they had visions of controlling that chain reaction at sufficiently high temperatures to remove heat, make steam, and drive a turbine for electricity. In the process it might even be possible to breed more nuclear fuel than is consumed.

When the nation's atomic affairs were turned over to the Atomic Energy Commission after the war, it established Argonne National Laboratory in suburban Chicago as the nation's development center for nuclear reactors. The lab's first director was Dr. Walter H. Zinn, a Canadian-born physicist and early co-worker of Fermi, who recently retired as vice-president of a major supplier of nuclear power plants.

Theatre Group

The BERA Theatre Group will hold its next general meeting at 8:30 p.m. on Tuesday, December 14th in the lounge of the Recreation Building. The agenda will include: a financial report on the recently completed production of "You Know I Can't Hear You", a status report on the production of "Scenes From American Life" scheduled for January, a discussion of further possibilities for the Spring, and some special musical entertainment arranged by the program chairman.

All members and other interested persons are urged to attend.

Family Folk Sing

A two-hour program of contemporary folk music aimed at the whole family will be presented tonight at St. Joseph the Worker School in East Patchogue.

The concert, for the benefit of the Bellport Day Care Center, will be led by a group of 40 singers and instrumentalists who will perform "in the round" starting at 7:30 p.m.

There will be a special admission price for family groups, \$2.50, for Mom and Pop and all of the kids. Single admissions will be 75 cents for each person.

Still Time To Pledge

The United Fund of Long Island fund drive for 1971 officially ended last week, but there still is time to contribute to this worthy charity.

Pledge cards were distributed to all employees at Brookhaven early in November that will allow a payroll deduction to be made weekly or monthly. These cards may still be returned to payroll, 37 Brookhaven Avenue, for an automatic contribution on a regular basis.

United Fund services 79 health, welfare, and character-building agencies, hospitals and services in Nassau and Suffolk Counties. Recipients last year included all of the local hospitals as well as the Boy and Girl Scouts and the American Red Cross.

Selected Reading

Nature 234, November 26, 1971

Two views of British science. 169-71

Survey of North American science: Signs of change in science policy. 179-80

Science 174, November 26, 1971

New initiatives in technology, P.H. Abelson. 895

Current physics information, H.W. Koch. 918-22

After the Pentagon Papers: Talk with Kistiakowsky, Wiesner. 923-8

Nuclear physics: Does competition breed a monstrous game? N. Wade. 932

Science 174, November 19, 1971

The new biology: What price relieving man's estate? L.R. Kass. 779-88

Chem. Eng. News 49, November 29, 1971

Technology assessment: Harvesting genius. D.E. Kash and I.L. White. 36-41

Cafeteria Menu

Week Ending December 16, 1971

Friday, December 10

- Clam & Celery Bisque
- Fried Shrimps w/Tartar Sauce & French Fries .95
- Roast Leg of Lamb w/Mint Jelly & 1 Veg. .95
- Broiled Halibut w/Carlton Butter & 1 Veg. .95

Monday, December 13

- Tomato Soup
- Roast Fresh Ham & 1 Veg. .90
- Chicken Patties w/Giblet Gravy, Currant Jelly & 1 Veg. .90
- Western Omelet w/French Fries .80

Tuesday, December 14

- Vegetable Soup
- Grilled Ham, Sausage & Pineapple & 1 Veg. .90
- Creamed Chicken & Mushrooms on Noodles .90
- Sauerbraten w/Potato Pancakes .90

Wednesday, December 15

- Minestrone Soup
- Baked Beef Loaf w/1 Veg. .85
- Shrimp Chow Mein on Boiled Rice w/Crisp Noodles .90
- Polish Kielbasy w/Mashed Potato & Sauerkraut .80

AGS Service Awards

There was a large gathering in the lobby of the AGS Building on November 19 at which time Dr. Fred Mills presented ten and twenty year Service Awards to members of the Accelerator Department who were eligible in 1971. Recipients not present for the picture taking were: C.S. Avent, R.

Baker, W.H. Casswell, M.F. Clancy, J.E. Detweiler, A. J. Esper, J.H. Sauls, F.A. Schneider, R. Smith (20 year), M.E. Stone, P.H. Warner, W. York, L.P. Zaloga and last but not least, M. Plotkin who had received his 25 year Service Award on October 15 at the Laboratory 25th Anniversary Celebration.



Top row (left to right): L.M. Chimienti, J. J. Dabrowski, F.D. Timm, K.D. Riker, H. Hahn, E.G. Gill, T. Lehecka, K.M. Kohler, and W.R. Tooker. Seated: R.M. Dunnigan (20 yr.), T.B. Scheurer, T.A. Mullany, Y. Winterbottom, P.R. Gassaway, B. McLaughlin (20 yr.), P.R. Hichborn (20 yr.), and H. Bumstead (20 yr.)



Top row (left to right): A. Bono, R. Damm, N.C. Davids, A.E. Scholtz, J.T. Mayeski, C.M. Nagle, G.O. Stenby and G.F. Ryan. Middle row: C.B. Eld, D.E. Miller, R.S. Hulliger, N.L. Anderson, E. Heppner, S.A. Anderson, J.D. Tilley, E.R. Schmitt, E.T. Schwaner and J.H. Dilg. Seated: H. Gorczyca, R.E. Meier, D. Brady, F. Pulka, J. Bunicci and J. Doohry.

Published Weekly for the Employees of Brookhaven National Laboratory

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NORBERT J. DERNBACH
Public Relations Officer

Letters To The Editor

Dear Sir:

The family of Ernest Roberts greatly appreciates all the kind consideration and sympathy of the Laboratory personnel and our many friends. Mary Ann Roberts and family

Dear Sir:

The recent call for AUI Scholarship applications mentioned that the 1972 scholarships would take financial need into consideration in an as yet unspecified manner. Assuming that the Laboratory administration and the AUI Trustees would welcome comment from the Laboratory employees, the following revisions to the scholarship program are suggested:

Philosophy: Scholarship awards should be made on the basis of merit. The monetary value of the individual awards should be determined primarily on the basis of need with enough flexibility to allow affirmative action to be applied toward children of minority employees. The AUI financial commitment to the scholarship program (currently about \$40,000 per year) should be increased.

Specific Suggestions: Merit ranking of applicants should be continued essentially unchanged.

All scholarship winners should receive public recognition and a suitable award (medal, certificate, etc.) without regard to the monetary value of the scholarship.

Available funds should be allocated on the basis of need. Consideration should be given to increasing the maximum award above the current \$900 per year. Some of the awards would be well under \$900/year, again depending upon need. Formulas relating award to need should be based on consultation with experts in the field, perhaps the Princeton Testing Group.

The monetary allocation step of the scholarship award procedure could well include an interview during which ancillary data on goals, motivations, etc. could be considered together with affirmative action application.

Some thought should be given to establishing a "minimum merit rank" such that the chance of an applicant receiving an award would be relatively independent of the quality of the annual "crop" of which he is a part. Total annual awards would thus fluctuate depending on "crop" quality.

Award recipients should be permitted to attend a Junior College should they so desire.

If it is strongly felt by the Trustees that at least some avenue should be left open for the meritorious child of relatively affluent parents to gain financial recognition, one or two \$900/year scholarships could be awarded solely on merit. The winners should perhaps be specially designated as the "Brookhaven Scholars."

The individual university members of AUI have a vested interest in maintaining BNL as a vital scientific community. As an indication of this interest, each institution should be strongly urged to provide at least one four-year scholarship per year to be administered under the AUI Scholarship Program.

AUI should consider its budget carefully in a strong attempt to increase the total annual value of the scholarship program. For example, is it really worthwhile to subsidize AUI aircraft today when this cost is compared with scholarship needs? If the individual university members of AUI consider this service vital to their needs, would they be willing to provide one or two four-year scholarships each year as a quid pro quo?

I believe that each of the above suggestions merits earnest consideration. The funds expended must go toward the maximization of educational opportunity and this can only be accomplished by evaluating awards on the basis of financial need. No substantial dilution of scholarly worth would result from these changes. On the contrary, a student aware that his attendance at college derived mainly from his own efforts rather than from the largesse of his parents is more likely to progress steadily toward valid career goals.

Implementation of the suggestions would also remove the "most favored few" connotation of the present program. For the period 1965 through 1971, 77% of the awards were to the children of Scientific, Professional or Administrative personnel; 10% of the awards were second awards to the same family; most repeats were to the children of Scientific Staff members.

While I am presenting these suggestions as an individual, it should be noted that they were developed in part early this year by the Affirmative Action Advisory Committee.

John H. Cusack

Here and There

Claire Lamberti

Gordon Danby (Accel) has been named a Fellow of the American Physical Society.

Norb Dernbach (PR) was in Chicago, Illinois on December 6-7 to attend a meeting of the ANS Public Information Committee.

H.W. Siegelman (Biology) is spending a year at the Weizmann Institute of Science in Rehovot, Israel. He will be working in collaboration with Drs. Ephraim Katchalski and Nathan Sharon on studies including chemical modifications of proteins, the development of chromatographic and electrophoretic methods for protein separation, the characterization of molecular size and shape of macropetides.

A.W. Castleman, Jr. (DAS) is participating in the American Geophysical Union's visiting scientist program in geophysics, sponsored by the National Science Foundation. The program is designed to acquaint universities not having existing programs in geophysics with the application of chemistry, physics, and mathematics to the problems in the geophysical sciences. Dr. Castleman delivered two lectures on "The Nature of Atmospheric Ions and Aerosols" and "The Stratosphere - From Ions to Volcanoes," and conducted several other informal seminars while visiting two campuses of Fairleigh Dickinson University on December 1 and 2.

Radio Club Party

The Radio Club's Christmas Party will be held on December 9, at 8:00 p.m. in the Recreation Building.

Gymnasium Schedule

The Gymnasium is open during the week until 9:30 p.m. for the following scheduled activities:

November 30, 1971 through April 1972

Monday
5:00-7:00 Volleyball League (Mixed)
7:00-9:30 General Activities

Tuesday
5:00-7:00 Judo Club
5:00-9:30 General Activities

Wednesday
5:00-8:15 Volleyball League (Men)
(2 matches - 5:30, 7:30)
7:00-9:30 Volley Leagues & General Activities

Thursday
5:00-9:30 Basketball League (4 games - 5:30, 6:40, 7:50, 9:00)

Friday
5:00-7:30 Soccer League
7:30-9:30 Tennis (by posted self-service reservation)

Arrivals & Departures

Arrivals

Gyles Harrison.....PE & P

Letters To The Editor

Dear Sir:

The following letter was sent to Dr. Maurice Goldhaber after the close of the Ninth Annual Briefing for Science Writers at Brookhaven:

Dear Dr. Goldhaber:

On behalf of the Council for the Advancement of Science Writing, I want to thank you for being the host for one of our most successful briefings on New Horizons in Science. Brookhaven was one of the best hosts, if not the best, we have ever had. Everything went off with complete efficiency and warm hospitality, and after having been deeply involved in a total of eight of these briefings and a number of others, I can testify to what a miracle that is. Norb Dernbach and his staff did a simply wonderful job!

Although at a few briefings we have had a larger attendance, we have never had any higher quality in terms of publications represented. There were writers from Associated Press, United Press International, Wall Street Journal, Newsweek, Time, The National Observer, Christian Science Monitor, Reader's Digest, etc., and also newspapers in Detroit, Canada (a group), Pittsburgh, Boston, Philadelphia, Richmond, Buffalo, and other cities.

I should add that the Brookhaven scientists on the program were all excellent, so I think it was a most worthwhile program both from your point of view and from ours.

Again, our deepest appreciation for Brookhaven's truly substantial contribution in sponsoring this successful effort to increase the public understanding of science.

Most sincerely,
Henry A. Goodman

At Home On The Range



The ladies watch with interest as Les Lawrence of Applied Math, displays the art of preparing a curry of leftover turkey.



Art Scott displays his finished dish, Bermuda Glaces, or baked Bermuda onions.



Clams Italiano, prepared by Alan Smith, made a mouth-watering dish.



Ed Fischer explains some of the finer points of preparing a succulent fish chowder.



While his son, Karl, looks on, Clarence Pittenger makes a stuffed Edam cheese.

**Cooking Exchange
Receives Great Reviews**

Last week's Cooking Exchange session featured a return engagement by the men. Performing to a standing-room-only crowd was Ed Fischer on fish chowder, Alan Smith on clams, Les Lawrence on turkey curry, Clarence Pittenger on stuffed Edam cheese and Arthur Scott on baked onions. Gentlemen, thank you very much.

A gala Christmas party is planned for December 16 from 4 to 6 p.m. in the Recreation Building in the apartment area. Husbands are invited, and it is requested that everyone who attends please bring a savory or salty appetizer. To cover the costs of recipes demonstrated and for the babysitters, there is a charge of 75¢ per session for each person attending. If you need additional information, please call Terri Pittenger at 286-9471.

Slo-Break Basketball

by Jack Brennan

Biology buried Medical 47-20 as Bob Costello with 13 and Joe Abata with 10 led the winner's attack. In a high scoring contest, the Dirty Dozen edged A.M.D. 57-51. Herm Haller with 25 points was the night's high scorer leading the Dozen attack. Pete Stillman had 12 for the winners while James Moore of A.M.D. scored 22 points. Les Lawrence & Bob DiLello had 12 and 10 points for the losers.

The Tandem's had their jumping shoes on as they dominated the boards while Burleigh James & Jim Garrison with 20 and 13 points respectively were the Tandem's big guns as they walloped the Knacks 51-31. Bob Morelli had 11 for the losers. The A.E.C. beat Personnel 55-34. Andy Fogarty & Bob Casey with 16 each & Jim Hooper with 13 were the winner's big men while Ed Taylor has 15 for the losers.

	W	L
A.E.C.	1	0
Biology	1	0
Dirty Dozen	1	0
Tandem's	1	0
A.M.D.	0	1
Knacks	0	1
Medical	0	1
Personnel	0	1

Badminton Birds

Good news! The BERA Awards Committee has replied to the proposal to sponsor a Badminton Ladder Tournament. The details are still to be worked out, but at the present the Awards Committee does look favorably on a ladder tournament with Participation Certificates.

What we propose, and this is revolutionary in recognition of "women's lib," is an open tournament with women competing on even terms with men. So, all "girls" interested in Badminton, no matter what your level of competence, sign up and join the fun. In a ladder tournament, all players have plenty of opportunities to compete with players of about equal ability.

Anyone who desires to enter the tournament can sign up now by submitting his or her name and telephone extension to John Binnington at the Research Library. Names of late entries who sign up after the start of the tournament will be entered at the bottom of the ladder.

There will be two divisions, singles and doubles, and players may enter both divisions.

The tournament will start next Monday, December 13, and will run to the middle of April. This time span will permit about 16 weeks of competition with each contestant expected to schedule at least one match each week.

Rules of the tournament will be posted in the gymnasium near the Badminton courts. The ladder will be seeded initially and changed at least once each week as the results of play become available.

**Recreation Facilities
Holiday Schedules**

The Recreation Facilities will remain open during the month of December as per normal schedules with the following exceptions:

- Swimming Pool**
Closed December 23, 24, 31
- Recreation Building**
Open for Christmas parties only on December 15 through December 24.
Closed December 27 through January 4, 1972.
- Film Service Office**
Closed December 23, 24.
Open December 31 from 9:00 a.m. to 1:00 p.m.

Stony Brook Events

A "happening" including a demonstration of levitation, a production of "Boys in the Band" and two Garbo films are among events open to the public this week at the State University of New York at Stony Brook. Unless otherwise indicated, events listed are open to the public at no charge.

Friday, December 10

"A Happening in Spirit Writing and Telepathy" including a levitation demonstration will be presented by New York artist Royce Dendler beginning at 7 p.m. in Cardozo College Lounge.

Sunday, December 12

The University Orchestra presents a concert at 8:30 p.m. in the Gymnasium.

A production of "The Boys in the Band" sponsored by the New Campus Theatre Group begins at 8 p.m. in the Stony Brook Union Auditorium. Tickets are free, and may be ordered ahead of time at the University Ticket Office or obtained at the door. This production will also be held on Monday and Tuesday, December 13 and 14, same time and place.

An Antique Jewelry Fair will be held at 1 p.m. in Cardozo College Lounge.

A display and sale of paintings by the internationally-known Israeli artist Chaia Schwartz begins at 8 p.m. in Cardozo College Lounge.

Pianist and composer Elizabeth Lauer will perform works by Mozart, Chopin, Schubert, Ravel and Bach, at 8 p.m. in Cardozo College Lounge. (The recital and the art exhibit are being held simultaneously.)

Monday, December 13

Associate Professor of History Herman Lebovics continues his lecture series on the origins of contemporary European ideologies with a discussion of "Revolution in 1848," at 5 p.m. in Room 109 of the Lecture Center.

Tuesday, December 14

Professor of Philosophy Richard Zaner continues his lectures on the philosophical foundations of the social sciences with a discussion on "The Structure of Social Reality as the Foundation for the Social Sciences," beginning at 6 p.m. in Room 143 of the Old Engineering Building.

A demonstration of Oriental cooking begins at 8 p.m. in the O'Neill College Lounge.

Wednesday, December 15

Dr. Victor Weisskopf of the Massachusetts Institute of Technology discusses "Probing the Interior of the Proton" in a Physics Department Colloquium at 4:30 p.m. in Room 137 of the Physics Building.

Thursday, December 16

Greta Garbo graces two films, "Queen Christina" and "Camille" at 8:30 p.m. in Room 100 of the Lecture Center.

Volleyball News

Odelli Ozer

There was plenty of action in both Volleyball Leagues last week. The big surprise in the Men's League was provided by the Cool Tools (Superconductivity and low temperature physics) who after a shaky start against Chemistry on opening day, put together a good team game in defeating last years runner ups, the Atom Spikers (AGS), by a score of 3-0.

In other Men's League games AEC retained first place by defeating Particle Detector 3-0, while the Spikers (DAS) opened their season by defeating the Set Ups (AGS) by the same score.

In the Mixed League another close game between the Gotcha's (NNCSC) and the Jets (Phys.) ended in the Gotcha's favor. The Spikers (AGS) had a dismal night losing in addition to their three scheduled games a makeup game against the Active Sites (Biology). The Trolls (APS) have been holding their own. Since this team has a number of excellent players it is only a matter of time before they start posing a serious threat to the Gotcha's and the Jets. The Boomerangs had a night off.

The team standings on December 2 are as follows:

	Men's League		Mixed League		
	W	L			
AEC	6	0	Gotcha's	6	0
Spikers	3	0	Jets	4	2
Cool Tools	5	1	Trolls	3	3
Atom Spikers	3	3	Active Sites	2	3
Chemistry	1	2	Boomerangs	1	4
Particle Detector	0	6	Spikers	1	5
Set Ups	0	6			

Bowling News

Grace Fales

Pink League

The Pinsplitters (Marge Stoeckel 189/512, Betty Jellet 182/488, Lillian Hillerud 165/462, and Grace Fales 177) have moved from third to first position. Also doing their thing was Helen Caisey 176/478, Ellie Murgatroyd 174 and Honorable Mention to Mary German of the Spares with a 151.

Black'n Blue

From the looks of the scores in the Black'n Blue mixed league, everyone must have eaten too much turkey. The only respectable scores were a 502 series for Dick Murgatroyd and 161 for Helen Caisey.

Red League

Lucky Strikes: Ken Asselta 200, Jerry Weiss 207. Neutrons: W. Kristiansen 215, R. Larsen 205/210/605.

Green League

Highs for the night - Designers: Fred Hohmann 204/187/561. Sandbaggers: K. Riker 192/192/543. Other high games were R. Jones 192, J. Lee 192, W. Kollmer 193, S. Kiss 193, E. Fales 192 and J. Scesny 194/182/547 series. Team standings: 1st Place - Designers, 2nd Place - No Name, 3rd Place: Bubble Boys.

**Classified
Advertisements**

Positions Available

The Brookhaven Bulletin each week will list job openings which have come to our attention and may be of interest to Lab employees. Each listing will be repeated (if still available) only once.

- EXPERIMENTAL WELDER (1) - Central Shops. Application deadline: December 14, 1971.
 - EXPERIMENTAL WELDER (1) - Central Shops. Application deadline: December 15, 1971.
 - DEAN OF FACULTY - Bates College. Contact R.C. Anderson, Office of Scientific Personnel.
 - CUSTODIAN - Plant Engineering and Planning Division.
 - SECRETARY - Medical Records Office, Medical Department.
 - X-RAY TECHNICIAN - N.Y. State License and ARRT registration. Medical Department.
 - TECHNICAL SPECIALIST - Bachelor's in Science, radioisotope experience helpful. Medical Department.
 - LABORATORY TECHNICIAN - Clinical Chemistry, Medical Department.
- For further information, please contact Employment Supervisor, Ext. 2109 or 2513.

Autos & Auto Supplies

65 CHEVELLE MALIBU - 2 dr hdtpr, 6 cyl, 230 cu in. T. Rost, 981-1981.

71 VW BUS - 12,000 mi, must sell. \$2500. 289-8592.

62 CORVAIR MONZA - R/h, auto trans. \$45. Ext. 7782, 924-8542 after 6.

68 AUSTIN HEALY SPRITE - Good cond. A steal at \$400 (firm). Ricc, 732-9384 after 6.

62 TR-4 - Wire wheels, r/h, good top & tires, tonneau cover, new bait, excel running cond. 653-4633.

65 CHEVY VAN - Red, insulated, paneled, carpeting, very good cond, reasonable, work or fun. 744-9686 after 5.

SANTA'S COMING - With a new Cougar for the bride. Must sell her '71 VW Superbug to make room. Yellow, ww, am/fm stereo, std trans, 10,000 mi. \$2000. 744-2992 after 5:30.

67 PONTIAC CATALINA CONV - Ps/pb, many extras, best offer. 924-3362.

2 EXTRA 14" SNOW RIMS - For Olds 88 or Pontiac. Geo, Ext. 657.

65 FORD COUNTRY SEDAN STATION WAGON - V8, r/h, ps, all new rubber. Asking \$525. 878-1738.

4-6.50x16 TRUCK TIRES - 6 ply, w/rims, less than 10,000 mi. \$25 ea. Ext. 2829.

67 DODGE R/T - V8, auto trans, posi, Crager mags, tach & stereo tape. \$1250. 286-9197 after 6.

68 TRIUMPH 250 - White/blk, wire wheels, racing mirrors, elec cverdrive, Konis, luggage rack, re-worked head, am/fm, new Semperits, 13,000, excel cond. \$1900. Ext. 2912.

70 MAVERICK - Auto trans, radio, best int, 6 cyl, 2 dr, real nice. Asking \$1600. S. Anderson, Ext. 2411.

70 MAVERICK - Radio, studded snows, auto trans. D. Kochis, 744-6526 after 5.

64 OLDS VISTA CRUISER - 35,000 mi on eng & trans, very good cond. \$650. 289-8236 after 6.

68 SAAB 96 - To get you through a hard winter unscathed, only 24,000 mi, used as 2nd car, owner moving abroad. \$600. Cochavi, Ext. 7289, 473-2405 eves.

62 CHEVROLET - Std trans, reliable transportation, leaving country. \$100. O.W. Dietrich, Ext. 2435, Ext. 7702 eves.

66 OLDS 98 TOWN SEDAN - Auto trans, air cond, ps/pb, leaving country. \$750. O.W. Dietrich, Ext. 2435, Ext. 7702 eves.

62 CHEVY WAGON - Auto trans, 6 cyl, good transportation. Bill, 678-0174.

68 CAMARO - 6 cyl, 3 spd console, vinyl top, r/h, excel cond. \$1200 firm. 751-7868.

70 HORNET - 155 hp 6 cyl, h.d. auto trans, h.d. cooling system, h.d. elec system, h.d. rear axle w/posi & more. \$1550. D. Feigenbaum, Ext. 7677, 289-3622.

CAR TAPE PLAYER - Kraco 8 track w/2-9x5 speakers & grilles. Cost \$79.95, will sell for \$40. 475-5222 after 5:30.

PAIR 15" RIMS - Ford, excel cond. \$5/pr. Paul, Ext. 2968.

69 CHEVY IMPALA CONV - Air cond, ps/pb, like new. Carsten, Ext. 2893.

63 DODGE DART - 2 dr, excel running cond, std shift. \$150. M. Aguilar, Ext. 7792.

67 BUICK RIVIERA - 31,000 orig mi, auto trans, ps/pb. \$1350. 744-1139 after 6.

66 FORD MUSTANG COUPE - 6 cyl, auto trans, ps, snows, r/h, 45,000 mi, good cond. \$650. 924-3291 after 5:30.

65 VW SUNROOF - Runs very well. Asking \$400. Ext. 7506, 281-7155.

64 CORVAIR SPYDER TURBO CHARGER - Clean body, good rubber. 924-3652.

PR SNOW TIRES - 7.75x15, excel, used 1 season, \$20; Ford rims, \$4/pr. 473-2507 after 5.

TRAILER TIRE & RIM - 5.50x8 tire never used. \$14. Ext. 2814.

65 CHEVY STATION WAGON - Ps/pb, new auto trans & brakes. \$550. Ext. 2814.

240 CU IN FORD 6 CYL MOTOR - Burns no oil, excel cond. \$125 firm. 924-4193 after 5.

2 MICKEY THOMPSON SPECIALS - J70x15, brand new, labels still on. \$90. 924-4193 after 5.

63 VW - Needs work, runs. Ext. 7685, 475-6288.

FORD GALAXIE 500 - 4 dr sedan, very clean, 289 V8, excel cond, does not burn oil, auto trans. Best offer over \$725. S. Garrett, Ext. 2123.

2-14" RIMS - For 65 Pontiac. \$5. Ext. 7543, 363-6985.

4 VW RIMS - 5 hole, \$4 ea, 4/\$15; 1 VW rim & tire, good tread, \$10; 4 chrome wheel rings, VW, \$5. H. Arnesen, Ext. 7525.

DIEHARD BATT - 12v, 87 amps, 5 yrs guarantee, used 2 mos, \$25; collectors - 2-1959 Metropolitans, \$25 ea. L. Dallas, Ext. 7805.

62 FALCON - Excel mech cond, snows, recent vintage carb & clutch, std trans, orig owner. Asking \$200. Ext. 7578, 286-3742.

68 BUICK - 2 dr Skylark Custom, auto trans, ps/pb, factory ac/heater, radio, 20,000 mi, mint cond. \$1900. E.W. Anderson, Ext. 2835, 289-0742.

64 OLDS 88 STATION WAGON - Good cond, inspected 10/31/71. \$500. R. Hodor, Ext. 7630.

63 FORD WAGON - Country Squire, V8, 9 psgr, auto trans, running OK but needs some work. \$150. Ext. 7617.

Boats & Marine Supplies

21' NARRASKETUCK SAILBOAT - 2 suits dacron sails, heavy duty trailer. \$2300. Ext. 7244.

NEW ICE BOAT - 50' nylon sail, ideal 1 man boat, only 50 lbs, ca top carry. \$169.50. Jack, Ext. 684.

Miscellaneous

GIRL'S BICYCLE - Ross 26", blue, good cond. \$25; Royal portable typewriter w/case. \$20. Lorie, 475-1097 after 5.

CUSTOM TAILORING & ALTERATIONS - Men's & women's clothing. 286-3454 after 7.

PERF CHRISTMAS GIFTS - 7 1/2" hand-made feather dolls, many colors. \$5. 744-9822.

B&W TV - Portable 17", very good cond, \$30; stroller, \$8. J. Moller, Ext. 510.

A SHUT-IN MAKES GRANNY AFGHANS - Any color, \$20 & up, takes 1 wk. Mrs. Butcher, 286-0727.

YASHICA MAT 124 - New twin lens reflex w/built-in CDS meter, 120 or 220 film, 80 mm f2.8 viewing lens & 80 mm f3.5 taking lens, leather case. \$75. Ginos, Ext. 7139.

GIFT BARGAIN - Marx Electro-shot shooting gallery, excel cond. \$6. Andy, 473-7546.

HEATHKIT GR54 - Short-wave receiver, almost new, \$60 or best offer; Mercury all transistor phonograph, \$10; Bogen DB15 amp, \$15 bargain. 751-3062.

41 PC COCKTAIL GLASS SETS - \$10; men's & women's wallets, reasonable. Jimmy, 281-6736.

TOYS FOR CHRISTMAS - Dolls, Aurora pwr sleigh, see & save, many more. Jimmy, 281-6736.

CROSLEY SHELVDOR REFRIG - Not frost free, white, approx 16 cu ft, very good running cond. \$50. 929-4522.

OSTERIZER 2 SPD BLENDER - Very good cond. \$8. 929-4522.

100 WATT AM/FM - FM-MPX, AFC, BSR changer & 8 track, 6 mo old. New \$250, asking \$150. Tony, 281-5050.

SHOTGUN - Ithaca Mod 37 pump action, 12 ga, needs barrel. \$20. 538-5833.

BABY CARRIAGE - Stroller, crib, playpen, high chair, bassinette, bathinette, car seat, travel crib, all in good cond & reasonably priced. 878-0743.

CHILD'S CHEST OF DRAWERS - On rollers, white, good cond. Phyllis, 585-4973.

ELEC GUITAR - W/case & amp, excel cond. \$100. 289-8592.

GARRARD PROFESSIONAL AUTO TURNTABLE - Lab 80, w/walnut base & cover, Shure M-93 cartridge, excel cond. \$50. Ron, Ext. 366.

SKI PANTS - Girl's size 16, like new, \$7; men's 2 pc luggage, \$15. Mrs. Petruk, 286-0124.

BEDSPREAD - Quilted, deep turquoise, queen size, excel cond, \$12; 10 candle crystal chandelier, \$15. 289-2812.

TAPE RECORDER - Ideal for children, like new. \$5. E. Bihn, Ext. 7631.

BABY'S CHANGING TABLE - 2 lg shelves, white wovern design, new sturdy top. \$5. Karen, 286-2287.

GARRARD RECORD CHANGER - Model No. RC88, 4 spd. \$10. Carol, Ext. 7732.

OAK FIREPLACE LOGS - Custom cut, split, delivered & stacked, well seasoned. Ken, 289-8212 eves.

RECORD PLAYER - Good for children, good cond. \$5. E. Bihn, Ext. 7631.

RIFLE - 22 cal single shot Reminton Targetmaster. \$25. 588-8533.

CLAMMER'S TONGS - 2 pr 16 tooth tongs less poles. \$12/pr. Ken, Ext. 7638 days.

23" B&W TV - Walnut cabinet, good cond. \$50 or best offer. Ext. 7637, 286-1290 eves.

KODAK 44 INSTAMATIC CAMERA - \$3; photo developing kit for beginner w/enlarger, \$15; men's size 7 ice skates, \$5; 7 spd blender, \$5; Roto-Broil elec cooker & deep fryer, \$5. R. Hildenbrand, Ext. 7777.

FISHER 600-T - 120 watt solid state stereo receiver. Cost new \$475, asking \$295. Frank, Ext. 7220.

ICE SKATES - Boy's blk, size 2, \$6; bicycle, German made (Durkopp), hand brakes, spotlight, speedometer, hi-lo spds. \$25. Ken. 286-9053.

BLK PERSIAN LAMB COAT - \$75; beige Amer broad-tail jacket, \$25; both size 10-12 & good cond. 473-2507 after 5.

GERBILS - 6 wks old. 2/\$1. 289-8629.

REFRIG - 9.1 cu ft Frigidaire, approx 12 yrs old, working cond. \$25 or best offer. 289-8629.

LATHE CRAFTSMAN (ATLAS) - Sears No. 99H2140N, many access incl, milling hd. John, Ext. 426, 929-6530.

TUXEDO - Dbl breasted, size 38 long, perf cond, \$25; asstd children's ice skates, \$1/pr. Ext. 2484.

19" RONSON DELUXE BROILER - Excel cond. \$35. Ted, Ext. 2475, LT9-2470.

2 PANASONIC SPEAKERS - 10 watts, 8 ohm, blk orb type, used 1 wk only. \$15 ea. Kay, Ext. 7119, 289-0538 nights.

OAKEN CHINA CLOSET - Glass sides & shelves, mirrored back. E. Davis, HR3-1816 after 6.

UPRIGHT PIANO - Ideal Christmas gift for beginners. \$150. Ext. 7726/7273.

LADIES' BUCKLE SKI BOOTS - Size 8 1/2; ladies' good wood starter skis, 180 cm w/Cubco bindings; \$30/both. Mariene, Ext. 7711 after 6.

FIREWOOD - LI hardwoods, seasoned, guaranteed to burn, delivered. Bob, 732-9517.

PRINZ DELUXE GADGET BAG - W/padded compartment for camera, foam compartment for 3 lenses & 2 outer pouches, \$20; Minolta Bellows III, new, \$25. Ginos, Ext. 7139.

MINOLTA SR15 BODY - Single lens reflex w/shutter spds to 1/500 sec, mirror lock-up, bayonet mount for Minolta lenses. \$65. Ginos, Ext. 7139.

WHEELBARROW - 4.5 cu ft capacity, pneumatic tire, h.d. oak & steel frame, good cond. \$15. Ext. 2902.

BOY'S ICE SKATES - Excel cond, size 5. \$3. 727-3608.

200 MM F3.5 SOLIGOR - T-4 lens w/Minolta adapter, UV filter & shade, \$65; 85 mm f1.7 Soligor preset lens for Minolta, \$40. Ginos, Ext. 7139.

2 SLOT CARS - 1/2th scale, 1 very fast racer, the other does "wheelies," 1 controller. All for \$25 (will separate). Ext. 2959, 286-0295.

SAVAGE FOX MODEL B - 20 ga 26", used once. Cost \$126, asking \$110. F. Rumph, Ext. 7581.

DESERT ROSE FRANCISCAN WARE - Service for 4, never used, open stock, ovenproof, plus creamer, sugar, gravy boat, salt & pepper, butter. \$20. I. Merritt, LT9-5126.

BLACK & DECKER VIBRATING SANDER - Used only a few times. Cost \$19.95, sell for \$10. 475-5222 after 5:30.

TENT HEATER - Coleman 5000 BTU gasoline heater, used 1 mo. \$25. J. Ash, Ext. 2474.

COLOR TV - 21" Emerson, old but works well. \$35. J. Schirmer, Ext. 7111/2450.

PAINT - 2 gals Sears antique white flat latex int paint. Paid \$5.99 on sale, sell for \$4.50/gal. B. Espensen, Ext. 7638.

STEP-ON GARBAGE CAN - White baked enamel w/plastic inner pail. \$4.50. B. Espensen, Ext. 7638.

IRISH SETTER PUPS - Males, females, 7 wks, home bred for amiable temperament, raised w/children, outstanding champion pedigree. \$125. 941-9267.

GARRARD LAB 80 RECORD CHANGER - Zero tracking, 13 lb disc, plastic dust cover, A-1 cond. \$40. Ext. 7122, 732-2720.

CUSTOM STYLED MINI BIKE - Chopper, many extras, best offer over \$100. Danny, 924-4699 after 5.

B♭ CLARINET - New cond w/lyre & cork grease & key. R. Sweda, 475-7227.

VANITY BENCH - W/upholstered seat, \$4; TV cart, metal w/wood trim & bottom shelf, \$4; cocktail table, maple w/glass top, \$8. Ext. 7509.

1/2 MOON POLLY - W/brand new cage, \$8; dishwasher, needs fixing, \$15. 281-5205.

ESTEY DELUXE CHORD ORGAN - 37 keys, 18 chords, perf cond. \$60. 475-7241 after 5.

RADIOS - 4 band, AM, FM, MB, SW, 13 transistor, \$15; AM portable, leather case, \$6. Ken, Ext. 7668.

STUFFED ANIMALS & NOVELTY PILLOWS - Handmade, good gifts for tots to teens. 744-5741.

PICTURES - Set of 6 Hopi Indian Kachina pictures, great for boy's rm, framed & ready to hang. \$6/set. B. Espensen, Ext. 7638.

HAM SALE - Johnson Viking II transmitter, \$75; Johnson model 122 VFO, \$20; HA-750 6 mt transceiver, w/12v batt pack, \$100; Lafayette SWR & pwr meter, \$20; amateur receiver, \$40. Jerry, Ext. 7665.

DRESSING TABLE - Baby, padded w/4 drawers, closed dim 17"x19"x36", opens to 34". John, Ext. 426, 929-6530.

BASSINETTE - Wicker, white, lg size, 2 pcs, 39"l x 22" w x 34" h, hooded basket, wheeled base. John, Ext. 426, 929-6530.

WESTINGHOUSE "BACONER" - An elec appliance especially made for cooking bacon, used only 3 times. \$12. P. McHugh, Ext. 7163.

KIRBY VACUUM - W/all access. \$35. Geo, Ext. 481.

BICYCLE - 20" Sears conv for boy or girl, w/training wheels, 1 yr old, very little use. \$15 firm. Bob, 744-9861.

SEWING MACHINE - Singer featherweight portable, excel machine, zig zag attachment. Bob, 744-9861.

SKI BINDINGS - Salomon step-in safety, good cond. Cost \$50 new, asking \$25. Ron, Ext. 366.

YOUNG DUTCH RABBIT - Brown & white. Skee, Ext. 2544.

1/2 CASE SAE 30 OIL - Skee, Ext. 2544.

TEEN'S MIDI COAT - Dresses, skirts, size 14, 5-6, 7-8. 924-8225.

LADIES' SKI BOOTS - Henke 6 1/2 lace, used twice. \$15. Ext. 7543, 363-6985.

BEDRM SET - Fr Prov, dbl bed, dbl dresser w/full wall mirror, 1 night table, very good cond. \$150. 234-2451.

PLAYHOUSE - 4'x7', white w/red peaked roof, great for a little girl's Christmas. \$25. Morris, 744-5096 eves.

Real Estate

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

Classified Ad Policy

Deadline is 12 noon Friday for publication the following week.

1. The Brookhaven Bulletin's classified section may be used only by active and retired Laboratory employees.

2. All items for sale or rent must be the advertiser's property.

3. Ads for material acquired for resale in association with a full or part-time business cannot be accepted.

4. Firearms offered for sale or trade may not be brought on site.

For Rent

GREENPORT - Apt, unfurn, 2 bedrms, liv rm, full bath, kitchen (all lg rms), walk to village & school. \$165/mo plus util. W. Stars, Ext. 7525, 324-5692.

For Sale

WADING RIVER - 7 rm ranch, 1 1/2 yrs old, landscaped, 3 bedrms, 2 baths, paneled fam rm w/ fireplace, w/w, s/s, 2-car garage, full bsmt, oil baseboard heat, central air cond, 2 mi from beach on 1 acre of woods. \$45,000 firm. Ext. 2930, 929-6459.

PT JEFF STA - Split level, 8 rms, 1 1/2 baths, garage, fireplace, appliances, many extras, must be seen, near highway. W. Dunnigan, Ext. 7677, 473-2820.

MEDFORD - 2 story, 30 yr custom colonial on 1 1/4 acres, new mod kitchen, 4 bedrms, fireplace, study, fin bsmt, just blocks to K-12 schools, lovely treed area. 289-1614.

SOUTH HAVEN - 2000 sq ft colonial, 4 bedrms, 2 baths, 17x25 liv rm w/fireplace, study, screened porch, din rm, full bsmt, 3/4 acre wooded, landscaped, 6% mort. \$37,000. 286-9602.

ROCKY POINT - Efficiency apt. Fully furnished, walk to stores, churches. Private entrance. Ideal for 1 or 2 people. \$150 month includes all utilities. HR3-2349 evenings.

Wanted

PORTABLE TYPEWRITER - Late model, must be in good cond, reasonable. 473-2507 after 5.

WOODEN EMBROIDERY HOOPS - No metal screws, any size. Becherer, Ext. 7424.

CHILD'S WOOD TABLE & CHAIR SET - Ext. 586, 289-3114.

MINIATURE POODLE PUP BY CHRISTMAS - Papers not necessary, intended for Christmas gift, reasonable. 732-9168.

TREE REMOVAL & CHAIN SAW WORK - Also light hauling. Ken, 289-8212 eves.

BABYSITTING JOBS - Reliable high school girl avail, E. Patchogue-Bellport area. Janet, 286-1290.

HOME - For recently weaned, alert, semi-trained puppies, mixed breed, mother scotch terrier, free. Andy, Ext. 595.

BABYSITTING - Mother will babysit, day/wk, fenced yard, lunch, playmate. Mary, 698-1227.

HOT AIR FURNACE - To heat garage, work shop, oil burner or gas fired. Bono, Ext. 7677, AN5-2366 after 6.

HOME - Cute little kitten needs a home immediately! Owner unfortunately allergic to her. Susy, Ext. 2773; Howard, Ext. 7593.

TREE REMOVAL - Will do tree removal, chain saw service, painting & ground maint. Bob, 732-9517.

10 SPD BICYCLE - Preferably men's, reasonable cond & price. D. Christman, Ext. 7731.

APT IN LAB AREA - For male employee, 22, must be reasonably priced. Paul, 261-7905 eves.

16' BOAT TRAILER - Good cond, reasonable. 281-8458.

FRENCH TUTOR - Please call (again). HR3-2594.

WOOD BURNING STOVE - For up-state cabin. Ext. 7642.

HOME FOR HEIDI - 3 yr old German Shepherd, AKC papers, spayed, housebroken, playful but good watchdog. A. Perez, Ext. 2272, 588-9317.

PIANO - Upright or spinet, reasonable. HR3-9172.

FENCE POSTS - Steel 6-7', 25-40; English saddle, med size. 286-0798.

1 OR 2 GIRLS - To rent rm in Selden, 15 min from Lab. 928-4492.

BICYCLE EXERCISE MACHINE - Ext. 2934, LT9-5699 after 6.

PING PONG TABLE - Ext. 7316, 878-1790.

PHOTOGRAPHIC ENLARGER - Good quality. T. Morris, Ext. 7344/7646.

ADDING MACHINE - In good cond. George L., Ext. 7581.

Carpools

DRIVER/RIDER - For existing carpool, or will form new carpool, Centereach area. P. Nicklaus, Ext. 2874.

Lost & Found

LOST - Dec 1 at apt area, Scottish Terrier mix, blk/gray hair, bushy fur, named Sancho. R. Rolfe, Ext. 7519.

For Sale: Auto & Auto Supplies
 For Sale: Boats & Marine Supplies
 For Sale: Miscellaneous

Wanted
 Carpools
 Lost & Found