

It's An Electric Bug

Last week an unusual automobile sneaked onto the Lab grounds and quietly tried to make itself known. Unfortunately not too many people noticed because it looked like any other Volkswagon bug. But it was different.

It was an electric bug. Its builder, Donald Tichy, drove it to the Lab at the request of Bill Graves, BNL Technology Utilization Officer, for a demonstration.

The car is extremely quiet, making only a slight humming sound. Rather than gasoline, it runs on 18 six-volt industrial batteries. The batteries can be charged overnight by being plugged into a conventional 15-amp, 120-volt house current. With a higher current, of the type used for running air conditioners, charging time is reduced to three hours.

Fully charged, the car can be driven close to 110 miles at 55 mph and 60 to 70 miles in stop and go city driving. The car is not too practical for long distance driving but is ideal for an urban area where it could be used to supplement mass transit.

Theoretically, says Tichy, the car could be recharged in six minutes, making it suitable for long distances, but no one has tested the theory. In the future he hopes that he can.

Tichy, a student at the New York Institute of Technology, has been involved with electric cars for the last five years. By looking at all the electric cars on the market,



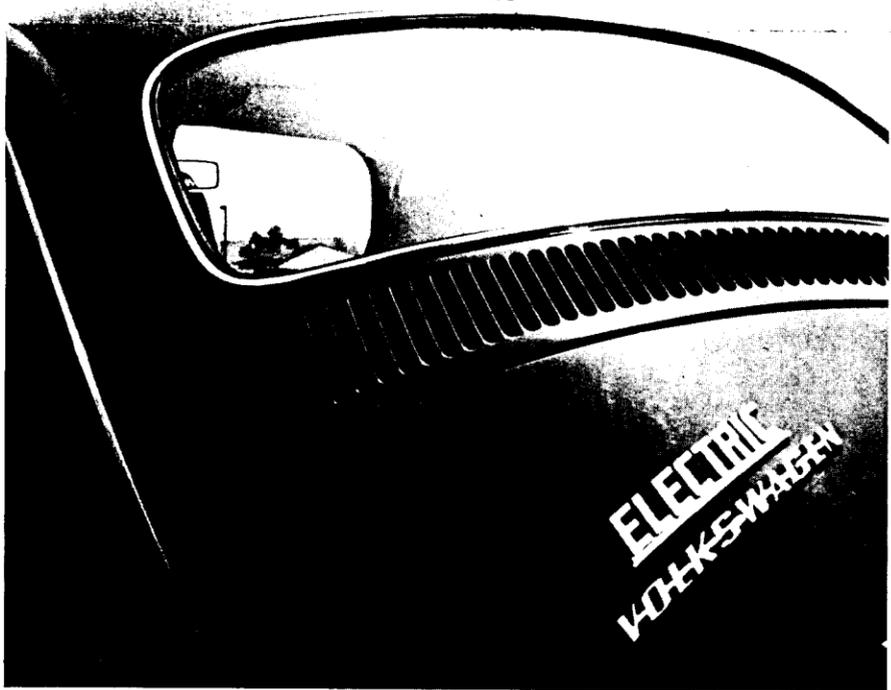
Lifting the hood exposes the "brains" of the bug - a small circuit board.

he was able to learn from their mistakes and incorporated the best features and some of his own into the design of his car.

He estimates he spent \$2500 to electrify a 1968 Volkswagon. But he now pays one penny a mile, one-third the cost of a gas-run VW, and does not have to worry about oil changes or tune-ups. The only maintenance work he has to worry about is on the four-speed transmission system or the brakes. Also, he has to remember to water the batteries every two months, and change the motor brushes twice a year.



Donald Tichy with his electric bug.



Hopes High As Subpanel Report Is Submitted To ERDA

Dr. Francis E. Low, Chairman of the Subpanel of the High Energy Physics Advisory Panel of ERDA, submitted the report of his group to HEPAP last Thursday. In the report, funding for ISABELLE was recommended for fiscal year 1977, which will start next October 1, 1976.

Dr. Low, a former Trustee of AUI, has had perhaps, the longest association with Brookhaven of any of the Subpanel members, having been inducted into the Army from Camp Upton in 1944. Now, Professor of Physics at MIT, he is participating in the ISABELLE Summer Study.

In an interview with the *Bulletin* on the eve of his presentation of the "Low Report" to HEPAP, Low traced the course that the report would take after leaving his hands.

"Our report goes to HEPAP in Washington, where it is forwarded without change but with comments to John Teem, Assistant Director for Solar, Geothermal and Advanced Energy Systems. It is then ERDA's report, to do with what they please. ERDA is not bound in any way by the conclusions in the report.

Low mentioned the several budgetary hypotheses that were included in the ground rules for the Subpanel report. Three levels of funding were discussed, and a fourth was discussed without setting a dollar level. The first level, which was the same as that considered by the Weisskopf Subpanel last year, was for \$245 million for operations and equipment, and \$50 million for construction. The second level was for \$250 million total, and the third level was for \$190 million for operations and equipment and \$20 million for construction. The fourth level was for optimum funding for the promise and needs for the field. The recommendation to fund ISABELLE referred to the three highest funding levels.

According to Low, the Subpanel recommends the construction of PEP at SLAC/LBL, ISABELLE at Brookhaven, and that FermiLab study ways to go to higher energies with the energy doubler.

"The PEP proposal is complementary to ISABELLE. PEP is a particularly beautiful device for many classes of experiments," said Low, "because it is so simple. It will also be valuable to explore the weak and electromagnetic interaction, but we probably cannot make the W-particle with it because its energy is too low."

"Many advances in superconducting design have been due to high energy physics. ISABELLE could not be built without this technology and this technology would not be so advanced without the impetus of ISABELLE. The future energy doubler at FermiLab which we also hope we will get, also relies on superconducting technologies."

ISABELLE, according to Low, would not make the present accelerators obsolete or second class. "There are all sorts of interesting phenomena to investigate at the AGS that have not been exhausted. For example, the J-particle was discovered here. It is very unfortunate that because of financial pressures one is unable to fully utilize these 'low' energy accelerators."

"One discovery which we may be on the threshold of is the unification of the weak and electromagnetic interactions. Most of the great steps forward in physics have effectively unified different areas of experience. In the 19th century the ideas of mechanics and heat were unified by the conservation of energy, in that energy was shown to go back and forth between heat and mechanical motion. Then came the unification of electricity and magnetism, and finally it was shown that light was an electromagnetic phenomenon. Now it may be that we are on the verge of another such unification, that of the weak and the electromagnetic interactions. Quarks, which are manifestations of the strong force, can fit into the scheme but are separate from it."

"What good is ISABELLE . . . beyond the physics and the value to pure science?"

"Obviously the cultural value of science is clear to the scientific community. Unfortunately it is not so clear to the public at large. A science without the frontier sciences will shrivel."



Francis Low

"There are other gains from pure science which are unpredictable. You are usually wrong if you try to figure out what the science is that is really going to solve a specific problem or give you a specific benefit."

"If someone in the year 1800 said to you I will now give you the following problem - How would you talk to someone in New York if you are in London? Now go ahead and solve that problem!"

"Would you have started to build pillars in the Atlantic and pulleys and reels for relays and so on? That is not how it was solved. It was solved by people like Ampere and Oersted and Maxwell who were studying rather esoteric electromagnetic phenomena. My colleague Ken Johnson says that what we should do is to charge one cent a person a day for Maxwell's equations. And Maxwell's equations have produced much more than one cent a person a day. If you are talking about benefits, or money, you simply never know, but that is certainly a partial reason for a society to support pure science."

"ISABELLE is to the physicist as a more powerful microscope is to the biologist. We will create the highest energy collisions in the world except for a few very rare cosmic ray events."

ISABELLE got another boost on Wednesday evening after the banquet for the Summer Study participants.

After-dinner speaker Steven Weinberg, theorician and Professor of Physics at Harvard, assured the audience at the very start of his speech that he did indeed endorse the proposal for the construction of ISABELLE.

Weinberg said that this was the first time he had been asked to be an after-dinner speaker for a group of physicists. He speculated that this might be a new means of communication between physicists - the after-dinner speech supplanting the Physical Review letters.

On a serious vein, Weinberg traced the course of modern physics to the present day, and pointed out the tremendous possibilities that lay ahead for new discoveries with an accelerator as powerful as ISABELLE.

Professor Weinberg concluded with the prediction that the new frontier opened by ISABELLE would provide the confirmation to many of the theories in physics that are proposed today and might even supply the ultimate answers to the basic structure of matter.

On Friday, the last day of the Summer Study, results of the working groups efforts will be presented before the Summer Study is adjourned.

Fluid Flow Measurements: Topic of DAS Lecture

On Tuesday, August 5, Jean-Marc Delhaye of the Centre d'Études Nucleaires in Grenoble, France, will give a lecture titled "Measurement Techniques in Two-Phase Flows of Gas-Liquid Mixtures." He will speak at 10:30 a.m. in Room 300 of the Chemistry Building.

Delhaye will present a survey on the present state of experimental techniques for fluid flow measurements in gas-liquid mixtures. Advancements in this field are important to the research in nuclear reactor hydraulics, chemical processes and aerosol transport in the atmosphere.

During the 1960's Delhaye performed fundamental research directed at deriving the field equations for two-phase flow systems. His numerous contributions to the field of two-phase flow analysis and instrumentation have won him an international reputation. In 1971 Delhaye received the Laureat de l'Academie de Science Award from the French Academy of Science for his original work in two-phase fluid dynamics.

BNL ARTISTS

&

CRAFTSMEN

GET READY FOR

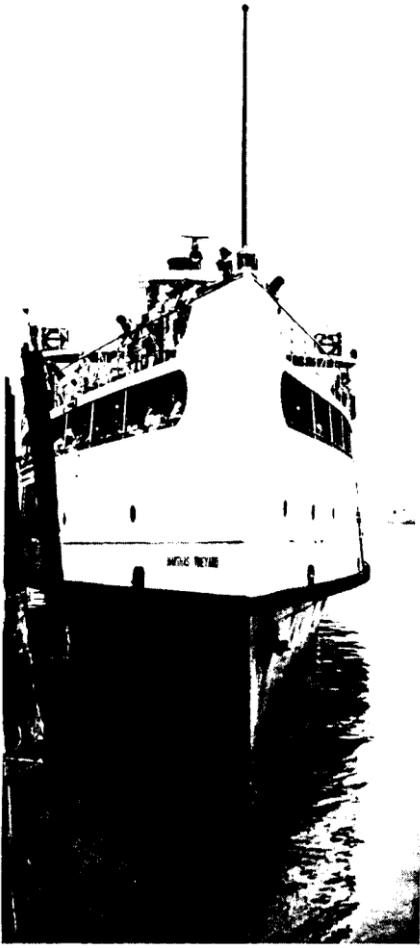
AUTUMN ART SHOW

Selected Reading

- Chem. Eng. News 53, July 14, 1975
Baker voices views on federal science. R.L. Rawls. 22+
- New Sci. 66, June 5, 1975
The misuses of science. R.S. Silver. 555-7
- Science 189, July 11, 1975
Energy conservation and the consumer. B. Hannon. 95-102
- NSF to make more Peer review information available. J. Walsh. 123
- A conversation with Dixy Lee Ray. R. Gillette. 124-7

Off-Site

Enjoying The Best Of Three Worlds



The "Martha's Vineyard."

With Connecticut and Rhode Island summer spots a pleasant ferry ride away, summering on Long Island can be more than just sun, surf and sand; it is enjoying the best of three worlds.

The "Martha's Vineyard," bound for Bridgeport, Connecticut, leaves four times a day from the pier at the foot of Route 25A in Port Jefferson. The relaxing trip across Long Island Sound takes an hour and 20 minutes. Until September 15, there are daily trips at 6:30 a.m., 10:30 a.m., 2:30 p.m. and 6:30 p.m.

Besides transportation across the Sound, the ferry company offers a number of special attractions throughout the summer: moonlight cruises, packaged tours in Connecticut and a banjo band on the 6:30 ferry every Sunday evening.

There will be four more moonlight cruises this summer leaving at 10:30 p.m. on July 25, August 8, August 15, and August 22. The three hour sail costs \$7 a couple and \$4 for singles, and features a band for dancing. Tickets go on sale the Monday before the cruise.

Four packaged tours within Connecticut are offered by the ferry company. The costs include a roundtrip ferry ride, bus transportation in Connecticut, entrance fees and dinner at a Connecticut restaurant. All tours leave at 10:30 a.m. and return by 10:30 p.m.

Each Wednesday and Saturday, there is a tour to Mystic Seaport, Connecticut's 37-acre, 19th century maritime village. The cobblestone streets are lined with old shops where marine arts are demonstrated. The seaport has a museum, planetarium and seven historic ships that can be boarded. The cost of the tour is \$18.50 for adults and \$15.50 for children (under 12).

The featured tour on Tuesdays and Thursdays includes the Branford Trolley

Museum and the P.T. Barnum Museum. The cost is \$11.50 for adults and \$10 for children. There will be two more tours to Old Sturbridge Village in Massachusetts this summer, August 11 and 17. The tour, which starts on the 6:30 a.m. ferry, costs \$19.25 for adults and \$16.25 for children.

On July 29, August 12, 15 and 29, there is a Southern Connecticut tour. This includes the Trolley and P.T. Barnum museums and Gillette Castle, a medieval castle in East Hatlyme. The costs are \$15 for adults and \$13 for children.

Another ferry bound for Connecticut each day leaves from Orient Point, at the very tip of Long Island's north fork. The one and a half hour journey to New London, Connecticut, presents a different view of Long Island Sound, passing numerous islands along the way. There are ten trips daily between 7:30 a.m. and 9 p.m.

The approach to the ferry terminal passes through some of the most scenic territory on the Island. The north fork is noted for its endless farms, old houses and churches, and quaint communities.

Both the Port Jefferson and Orient Point Ferries cost \$14 one way for car and driver, \$3.50 for passengers and \$1.75 for children. On weekdays, same day round trip fares for foot passengers are \$5 and \$6 on Sundays and holidays. For more information about these ferries call 473-0631 for the Port Jefferson Ferry, and 473-0294 for the Orient Point Ferry. Both ferries accept advance reservations.

The south fork's answer to the Orient Point Ferry is the Block Island Ferry. Leaving from Montauk Harbor at the end of the south fork once a day, is the ferry bound for the popular Rhode Island summer resort of Block Island, nicknamed the "Bermuda of the north" for its crystal clear waters.

Block Island is a mere seven miles by four so can be explored easily by bike. Because the ferry is not a car ferry, people visiting Block Island can either rent bikes there, bring their own, take taxis or do the island on foot. Taxis offer tours of Block Island for under \$10. Practically everything to see on Block Island is within walking distance of the harbor. The island is noted for its quaint Victorian architecture, high bluffs overlooking the ocean and its 365 ponds. The island is also famous for its nightlife.

The Montauk to Block Island Ferry leaves daily, during July and August, at 9 a.m. from Pier 1 in Montauk Harbor and returns from Block Island at 6 p.m. The ride is approximately one hour and 15 minutes. Same day round trip fare is \$10 for adults and \$5 for children under 12; one-way is \$7; \$1.50 for bikes round trip and 75 cents one way.

Back on Long Island, in the Peconic Bay between the north and south forks is yet another island which is accessible only by ferry. Shelter Island is a 15-minute ferry ride from Greenport on the north fork and North Haven on the south fork. This picturesque island, with its New England atmosphere and rolling hills is well worth a day of exploring. It is predominately residential with a few restaurants and hotels. The ferry from North Haven runs from 6 a.m. to 2 a.m. until Labor Day, and costs \$2 per car and driver one way; \$2.50 same day round trip and 25 cents for each additional passenger. The Greenport Ferry also charges \$2 for car and driver one way and \$2.50 round trip.

Upton Nursery School

September 8, Upton Nursery School begins its fall term. Registration is currently in progress for three and four year old children of all Lab employees. Applications are accepted on a first come, first served basis for classes held two and three times per week. Classes are filling rapidly! For further information please call Linda Lynn, 924-8329.

Summer Disco Sounds

Starting Thursday, July 31, everyone is invited, especially summer students and visitors, for fun evenings of music and dancing at the Recreation Hall. Come and get acquainted and "do your thing," Thursdays from 8 p.m. to 12 a.m. See you there.

For your further enjoyment, on Saturday, August 2, a special summer "Let's Get

Hospitality News

The next Hospitality Committee get-together will be held on Tuesday evening, August 5, from 8 to 10 p.m., in the Recreation Building.

"L.I.U.S.A.," an award-winning 30-minute film featuring Long Island, from Montauk to Manhattan, will be shown. Refreshments will be served and spouses are invited.

"It Together" party and buffet will be sponsored by the Brothers of BNL. This event will be held in the Rec Hall, with music by "Kaluto." A buffet and unlimited beverages will be available. The time is 9 to 11 p.m., the price is \$7.50. For further information about tickets please contact Paul Akins, Ext. 4719.

International Visitors At BNL



Recently, participants in an international training course at the Harvard School of Public Health visited the Laboratory for two days for the first in a series of field trips to different facilities in the United States. The course in occupational and environmental safety in the utilization of radioactive material, is being conducted at Harvard by the International Atomic Energy Agency in cooperation with ERDA. The group visited selected facilities at the Lab with the aim of seeing methods of radiation protection. Above, Art Humm, HP&S, takes the group through the HFBR.

East Meets West

During the last two weeks, since a dance troupe from India performed Tasher Desh before an over-flowing crowd in Berkner Hall, there has been nothing but praise for the performance.

Perhaps it was so well received because it gave many a glimpse of a culture so different from their own. It is not unusual that people were moved by the performance, because the man responsible for the story and music is revered in India and much of the world.

Rabindranath Tagore's many writings are filled with a sense of the beauty of the universe, a love for children and a simplicity, and by a consciousness of God. He did much to convey to the West the inner thoughts and moods of the people of his home state of Bengal. Tagore won the Nobel Prize for literature in 1913 when he was 52.

Tasher Desh is typical of the Tagore style of dance and music. It is far more informal than traditional Indian dancing and is tinged with western influences.

Tagore was not fond of formality. Being opposed to structured education, he founded his own university for the arts near Calcutta, where classes were far less strict. The Viswa Bharati (world of learning) University still exists today, but has been expanded to include the sciences. People from all over the world come to Bengal each year to attend the university.

Tagore's life revolved around literature, drama and music. He was a proficient singer and always wrote the music for his own poems as exemplified in Tasher Desh.

Many people in the audience were surprised at the end of Tasher Desh when an entourage of musicians and singers emerged from behind the stage. Normally, they would be in full view on one side of the stage, but the Berkner stage was not large enough to accommodate both the dancers and musicians.

Arrivals & Departures

Arrivals

Richard G. Eggert A.U.I.
Thomas E. Imperial Central Shops

Departures

Michael J. Howley Reactor
Peggy L. Micca Medical

The Marigold Caper

During the entire year and at the high of the season, the employees of Brookhaven National Laboratory go to special extremes to make visitors welcome and comfortable.

On one occasion, several children from a neighborhood school came to work with their parents for a project. The project was to write about their parents' professions and the people they worked with. One member of the Reactor Division could not accommodate his daughter as he wished, so I had the pleasure of doing so. She thanked everyone of the division and me with a marigold, which sat on my desk with pride.

One morning, the marigold was found pulled from the pot by its roots. It had been disposed of; whereabouts unknown.

The time has come for people to consider the efforts that some individuals, especially secretaries, spend on the interior decorating of their offices. Part of the interior cosmetics are plants and flowers. They have a certain amount of gaiety and give buildings a welcome and homey look.

My personal apology goes to the little girl who thought so much of our division to thank us with a marigold that no longer sits on my desk.

—Janice Berry

Auditing The Books



Nick Combatti (left), Biology, takes representatives from the Haskins and Sells Certified Public Accounting Firm on a tour of a controlled environment growth chamber in the Biology Department. The three men will be working at the Lab until the end of August conducting the annual certified audit of the books of account for BNL, AUI and NRAO. They are (left to right): Arthur Dalick, a Haskins and Sells manager; John Spraggins, an auditor; and Eugene O'Hara, the senior auditor with the firm.

Tennis Tournament News

BNL's largest ever tennis tournament continues to advance thanks to dry weather and cooperative players. The men's singles has moved to the quarter finals with all eight seeded players making it (Elmore, Rosenberg, Gibbs, Koetzle, Luhman, Bhagat, and Platner).

Last week saw considerable mixed doubles action. Victories were posted by Iwai-Rosenberg (top seeded), the Koetzles, the Michaels, the Luhmans, the Schonbergs, Emery-Shapiro and Saitta-Elmore (second seed). Come out this evening (Friday) and watch some terrific mixed doubles. All eight teams will be playing.

In women's doubles the finalists will be determined this week. Luhman-Iwai moved into the finals beating Saitta-Emery 6-2, 6-3.

Men's doubles action has been a bit confused with schedule changes, partner changes and some no-shows. Carsten-Quell beat the seeded team of Luhman-Gibbs in three very close sets. Elmore-Koetzle, the second seed had a narrow victory over Bhagat-Munson, 6-3, 7-6.

In women's singles Saitta became one of the finalists by beating her doubles partner Emery 6-3, 5-7, 7-5.

The tentative schedule for the rest of the tournament follows: men's singles semifinals on Tuesday, July 29, and men's singles finals Thursday, July 31. Men's doubles semifinals on Monday, July 28, and finals on Wednesday, July 30. Women's singles on Wednesday, July 30, and women's doubles on Thursday, July 31.

The mixed doubles matches have been held up because many competitors are in more than one event. The mixed doubles semifinals are scheduled for Friday, August 1, and finals for Monday, August 4.

In case of rain the whole schedule will be pushed back one day. No matches are scheduled for this weekend.

Players and spectators should consult the draw sheets at courtside and in the BERA sales office for the schedule details.

Cafeteria Menu

Week Ending August 1, 1975

Monday, July 28	
Cream of Chicken Soup	
Franks & Baked Beans	1.00
Barbecued Fresh Ham & 1 veg.	1.25
Tuesday, July 29	
Tomato Soup	
Chopped Steak & 1 veg.	1.05
Veal & Peppers & noodles oregano	1.25
Wednesday, July 30	
Vegetable Beef Soup	
Swiss Steak & 1 veg.	1.25
Thursday, July 31	
Shrimp Boat Special	
Cup of Soup or Small Juice	
Fried Shrimp Boat	
French Fries, Onion Rings & Cole Slaw	
Plain Jello or Ice Cream	
Small Beverage	\$1.87 plus tax
Friday, August 1	
Manhattan Clam Chowder	
Fish Cakes & Spaghetti	1.00
Pot Roast & 1 veg.	1.25



Piecing the treasure map together . . .



Finding the treasure . . .



Scaring away the bad lion which guarded the treasure.

The Lion's Share

Seek and you shall find! These were the words of encouragement given by counselors Rick Parsons and Barbara Smalle to the children of the BERA on-site recreation program last Friday, as they participated in the annual treasure hunt. Children of all ages participated in the treasure hunt, using well constructed but sometimes confusing treasure maps, which led them to strange and wonderful places all around the apartment area.

While the little Lab residents were seeking their booty behind bushes and trees, they were constantly aware that two "man-eating" lions were watching them at all times. The "beasts" had escaped from a local circus and could only be subdued by people under 12 years of age.

All under 12 fine, however, as treasures of candy and gum were discovered by the children, the lions were captured by the kids, and juice and cookies were enjoyed by all.

BROOKHAVEN BULLETIN

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Pool Races

On Friday, July 18, the BERA summer recreation staff conducted its second pool special, the kick board races.

Wet and happy the winners emerged from the pool with the presentation of ribbons for first, second and third places. Winners included Mary Crystal, Kathy Small, Sarah Hammer for the 7-8-9 year olds; Yanceer Bar Yan, Kathy Russel and John Hammer for the over 10 year olds. Winners for the 5-6-7 year olds were Jenny Small, Michelle Place and Betty Edelstein.

This Friday's pool special will be a diving contest for the older children and plate races for the younger children.

Lacrosse Discount Tickets

The Long Island Tomahawks lacrosse team is presently playing a 56-game schedule, with home games at the Nassau Coliseum in Uniondale.

As members of the Long Island Industrial Association, all BERA members are being offered special discount rates for all home games. Upon presentation of your BNL identification card, you may purchase \$6.50 tickets for \$3 and \$4.50 tickets for \$2.

For schedule information call the Long Island Tomahawks Lacrosse Club in Garden City, (516) 742-7650.

All About Telephones



Shirley Froberg (right), of the New York Telephone Company, prepares to show a film on telephone usage and courtesy to participants in this year's Youth on Campus Program. From left to right are: Pamela Tardd, Victoria Brown, Jean Hulbert and Edward Burki. The program is designed to provide meaningful on-the-job training, basic skills development and vocational guidance.

ANNOUNCING REAL COLOUR'S CAMERA SWEEPSTAKES

YOU CAN BE A WINNER - IT'S EASY AS 1-2-3

- 1- bring your film to BERA film service for processing.
- 2- save your numbered bag receipt.
- 3- watch the BROOKHAVEN BULLETIN for the winning number.

EVERYBODY "WINS" WITH THE FINEST QUALITY FILM PROCESSING.

GRAND PRIZE IS A KODAK POCKET INSTAMATIC - MODEL 110

DRAWING DATE . . .

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.

- 146. CUSTODIAN - Plant Engineering Division.
- 147. OFFICE SERVICES ASSISTANT - Fiscal Division.
- 148. ASSISTANT PERSONNEL MANAGER - Responsibilities include assisting in the development and administration of Laboratory personnel policies and procedures, specifically, including those policies and procedures that are intended to assure equal employment opportunities for women in all conditions affecting their status in the work force. Personnel Division.
- 149. STAFF ASSISTANT - Bachelor's degree or equivalent in Business Administration or Mechanical/Industrial Engineering with experience in administrative processes of production planning, budgeting, procurement and control of materials and equipment associated with the metal trades. Central Shops Division.

Autos & Auto Supplies

- 68 RAMBLER - American, 16,500 orig mi, excel rubber & snows. \$600 firm. Charlie, Ext. 2957, 744-3312.
- OIL FILTER - L-51, fits Chev before 55 or Cadillac before 59, Jeep 41-44. 50¢. Dale Miller, Ext. 2022.
- 68 VOLVO - 122S, 2 dr, red w/black interior, radio, bucket seats, 2 extra rims, good cond. \$650. 286-0934.
- TIRES - F78x15 black walls, Goodyear belted, new take offs. Ken 289-8212 eves.
- 73 MOTORCYCLE - Triumph Bonneville. G. Stenby, Ext. 4445.
- MAG CHROME WHEELS - 15" dish type, like new. \$115. Suzanne, Ext. 2441.
- 71 CHEVY PICKUP - 1/2 ton, r&h, front disc brakes, 8' box. \$1500. Ext. 3848, 472-0553.
- 70 CHRYSLER - Town & Country, full power, ac, am/fm radio, steel belted tires, extras, Dominic, Ext. 4810, 732-2668 after 5.
- 67 SAAB - 95 Estate station wagon, 3 cyl, very good cond. \$650. 744-4216.
- 70 FIAT 850 - Sports spyder, good mech cond, needs body work. \$450. 744-4216.
- VW SHOCKS - 1 pair for 66 VW, new, front end. \$5. Knudsen, Ext. 4807.
- 75 HONDA - 750, windjammer fairing, saddle bags, G. Stenby, Ext. 4445.
- REAL BARGAIN - 5-15", 5-13" tires, asst cond. 475-0144 after 6.
- 64 FORD - Galaxie, 8 cyl, 289 cu, running cond. Best offer. Ext. 2311.
- 72 SUZUKI - MX, TM400. \$600. 273-6388.
- 70 CAMARO - Rally sport, red w/black interior, black vinyl top, auto, ps, tinted glass, L-60 tires, mags, extras. \$1850. 399-1963.
- 73 MERC COUGAR - ps/pb, auto, stereo, air, 28,000 orig mi, excel cond. Jim. 475-1598.
- 63 IMPALA - Good cond. \$150. Ext. 3784, 473-0649 eves.
- 66 FALCON COUPE - Excel interior, good running, 6 wheels. \$500. 286-0497 after 6.
- 66 MERC MONTEREY - 4 dr sedan, radial tires, ps. \$250. Tom 473-8196 after 6.
- 72 CHRYSLER - Newport, all power, 38,000 mi. \$2000. 878-1895 eves.
- RIMS - 4 each for Duster, 13", like new. Bailey, Ext. 3260.
- SWAP - 4-15" wheel covers for 4-14" wheel covers. Joe Dispart, Ext. 3284, noon-12:30.
- 65 FORD VAN - 3 spd standard, 6 cyl, good cond. Asking \$550. 588-0424.
- RIMS - (2) 13", \$3; (2) 14" Ford Mustang, \$5. O. Booker, Ext. 4719.
- 71 MOTORCYCLE - Suzuki T-500, recent engine job, saddle bags, fairings, new brakes. \$800 firm. Pat Jencius, Ext. 3336.
- 64 CHECKER MARATHON - Good running cond. \$175. Ext. 3688, 363-7032.
- 68 FORD RANCH WAGON - Recently painted, just tuned, runs well. \$725. Ext. 3688, 363-7032.
- 68 SHELBY COBRA - GT 350, 48,000 mi, excel cond, disc brakes, ps, auto trans. 286-1062.
- 66 CHEV CAPRICE - Station wagon, ps, air, handy man's special, engine needs work, best offer over \$100. Fred, Ext. 2463.
- 71 PLYMOUTH - Satellite station wagon, ps, air cond. clean. \$1495. Fred, Ext. 2463.
- 67 PONTIAC CATALINA - 8 cyl, 4 dr, auto trans, ps, radio, heater, good running cond. \$400.
- 72 CAPRI - 4 spd, new steel belted radials, good gas mileage, must sell by Aug. 1. 298-4089.

75 VW BUG - Only 7000 mi, new car warranty until Dec, take over payment plus best offer. Ext. 4663, 751-5479 eves.

67 PONTIAC - Tempest, 2 dr hdt, V8, auto, runs fine, needs muffler. Asking \$375. Ext. 2032.

Boats & Marine Supplies

- ROD HOLDER - Stainless steel, \$3; 12V coils, 50¢; 12V start & gen, \$1 each. Dale Miller, Ext. 2022, 281-8579.
- 12' ALUM BOAT - Small leaks. \$25. Ext. 3121.
- 17' TIGER CAT - Fiberglass catamaran, ready to sail. \$700. John Evans, Ext. 4324, 286-2247 eves.
- 12' SAILBOAT - Oday Widgeon, excel cond. \$750. G. Kinne, Ext. 3334.
- 32' BALTZER - Twin 125 Chrysler, less than 40 hrs on engine, camper back, incl summer dockage at Week's. 331-1718.
- 24' CATBOAT - Classic gaff rig, needs saving. \$1500 for a labor of love. Max Small 286-8886.
- 17' BALBOUR RUNABOUT - All sanded down, needs painting & fiberglassing, best offer over \$100. 475-1352.
- 21' SHOREBIRD - Gaff rigged, fiberglass/wood in water. Magurno, Ext. 2902.
- SUNFISH - Fiberglass, red deck, red & white sail, good cond. \$290. Ext. 3326, 286-0497.
- BOAT TRAILER - 1974, gavanized, 1200 lb capacity, bearing buddies. \$200. 588-5833.
- ENGINE PROP - For 50 hp Merc, never used, 10 1/4 x 15. \$20. 588-5833.
- WATER SKIIS - Excel cond w/all necessary lines. \$25. 588-5833.
- GAS TANKS - 6 gal, (1) Merc; (1) Johnson-Evinrude, single hose, good cond. \$15 each. 588-5833.

Miscellaneous

- WASHING MACHINE - 1970 Kenmore, good cond. \$65. Ric, Ext. 2269, 286-1974.
- PROPANE REFRIG - 4 cu ft, Dometic, for trailer, good cond. \$70. J. Davis, Ext. 4504, 473-1523.
- 24' PULLMAN CARRIAGE TRAILER - 1973, self contained, sleeps 5, many extras, \$5000. 732-6137 eves, Ext. 3155.
- 20' COACHMAN TRAILER - Sleeps 6, self-contained, extras. \$3000. Hank, Ext. 3848, 472-0553.
- JULLIARD GRAD - Selling plywood double bass, excel cond, good tone. \$550. J.T. Russo, Ext. 4406.
- BEDS - Twin hi-riser and/or single twin bed. Joe Ash, Ext. 4210, 281-5332.
- HI RISER - W/bolster & cover, \$50, good cond, slightly used. Fred, Ext. 2463.
- CANNING JARS - Atlas & Ball, quarts & pints. Ext. 2926.
- MINI BIKE - Thunderbolt 125, 3 1/2 hp, 148cc, w/helmet, needs clutch, orig cost \$150, sell \$75. 981-5993 after 6.
- LIVING RM FURN - Club chairs, library table & chair, marble topped round table, lamps, excel cond. Ext. 2427, 751-2403.
- LAWN MOWER - Self propelled, Sears best 22", recently overhauled w/new bag & blade. Dave, Ext. 3427.
- DISHWASHER - GE portable, cutting board top, front loading, avacado green. \$75. 286-3377 after 6.
- 8 ORCH SEATS - At Bellport Playhouse for showboat, Fri, Sept 5. 543-7539 after 6.
- HYD BUMPER JACK - \$5; lawn mower rotary, \$30; 4" 16r speakers, \$1. Dale Miller, 281-8579.
- POOL BALL RACK - \$1; capacitor checker, \$2; hot plate, \$1. Dale Miller, 281-8579.
- STROLLER - Sears, \$3; humidifier, cold air, \$5. Dale Miller, 281-8579.
- LIGHT FIXTURE - Recessed, \$5; outdoor, \$5. Dale Miller, 281-8579.
- PICNIC TABLE - 6' w/matching benches, \$30; lb bags of lime, \$1 each; 1/2 sq of shingles, \$5. Dale Miller, Ext. 2022, 281-8579.
- STEEL POSTS - 50¢; clam rake, 11", \$3; 1/4hp elec motor, \$3. Dale Miller, 281-8579.
- SPEARGUN - US Divers Sea Hunter IV, 24" barrel w/2 elastics, excel cond. \$20. Chip, 744-2069.
- DRAPES - 2 pair pinch-plaited 90", 2 matching twin spreads, champagne damask, perfect cond, changed decor. \$40. 473-2734.
- SAW - B&D 6' portable w/accessories. \$20. 744-5871.
- FREE - Kittens, 2 calico, 1 gray, 1 golden. Bill Taylor, Ext. 4662, 298-4089.
- 5' BATHTUB - Blue, new. \$10. Dick, Ext. 4289.
- AIR PURIFIER - Room size, portable, electrostatic element removes dust, pollen. \$40. Ext. 3326, 286-0497.
- GAS RANGE - 3 month old, Welbilt, 26" coppertone. 924-3354 after 1 p.m.
- DOGS - Male English pointer, 2 yrs, \$50; male German shorthair pointer, 9 months, \$50. 878-1895 eves.
- ROTOTILLER - Rear mounted w/sickle bar & lawn mower attachment. \$155. Ext. 3688.
- BABY ITEMS - Carrier seat, good cond, \$5; papoose carrier, \$4. O. Booker, Ext. 4719.
- ENCYCLOPEDIA - Universal 56-57, 25 volumes. \$7. Joe D., Ext. 3284, noon-12:30 p.m.
- TENT TRAILER - 1968 Cox 10', sink, stove, ice box, vented heater, 2-20# propane cyl, sleeps 6. \$800. 473-9180.
- KITTEN - Siamese, 5 months. 751-2655.

HAMMOND ORGAN - Everett series, \$425; guitar, sandre folk, \$30., both in excel cond, ideal for beginner. Dave Doroski, Ext. 4509.

SOFA - Modern black, 4 piece sectional, good cond. Reasonable. 744-5553.

LAWN MOWER - 20" rotary w/catcher, Sears, 3 cu in engine, used 1 season. \$50. Joe, Ext. 4089.

CHAIR - Green upholstered colonial, 1 1/2 yrs old, excellent. \$75. John, Ext. 2501.

PUPPIES - English cocker spaniel, blue roan, pure breed, AKC papers, 10 weeks old, females, Dimmler, 751-6342.

AIR COND - 10,000 Btu, 110V, 12 amp. \$115. 286-3891.

BOOKS - Tom Swift, Judy Bolton, Dana girls, etc. Daniel, 286-8724.

PHOTO ENLARGER - 5 x 7 trays, easel, safelight, etc, all for \$40; old sewing machine. \$8. Mike, Ext. 2045.

ARIENS RIDE - On rotary, 4 forward spds & reverse, 25" cut, good cond. \$175. Chuck, Ext. 4477.

PACHYSANDRA - Good ground cover. 50 for \$5. 744-5448.

STEREO AMP - Paco, precision apparatus, 40 watt, tube type w/extra tubes. \$40. Ext. 3593.

AIR CONDITIONER - 5000 btu, 110V, 6 1/2 amp, good working order. \$75. Jake, Ext. 4532.

CAMERA - 2 1/4 x 3 1/4, Mamiya 23 standard 90 mm lens 6 x 9, 6 x 6, 6 x 4.5cm formats using 120 film, excel cond. Harry, Ext. 3450.

MUSKET - 1776 replica, useable; shotgun, 16 ga double barrel Ithaca. Barbara 691-6453.

DINETTE SET - 6 chairs, double bed, twin bed, good cond. 473-0649 eves.

CRIB - Full size, sturdy & good cond. \$15. 727-1329.
- LIGHTS - 6 recessed ceiling lights, 10x10. \$5 each or 6 for \$20. 727-1329.

POOL TABLE - 7', \$60; 20" girls bike, \$10; doll buggy, \$6; (2) child's desks \$5, big \$25; toy boxes \$2 & \$3; steel shelves: baseball pitch-back, \$4. Olness, Ext. 4570.

REFRIGERATOR - Admiral side by side, 10 yrs old, good cond. Best offer. C. Eterno, Ext. 2446, 929-6172.

Real Estate

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

For Sale

- SHIRLEY - Transferred 3-4 bedrm, custom built, full heated basement, eat-in-kitchen, dining, living, utility rms, w/w, s/s, garage, large treed plot. 95 Linden Ave. 281-8577.
- BELLPORT - E. Patchogue area, large 4 bedrm colonial w/2 1/2 baths, living, din, eat-in-kitchen, family room w/fireplace, lovely wooded 3/4 acre, beach rights. \$55,900. 286-3944.
- CALVERTON/RIVERHEAD - Sale/rent, new townhouse, 3 bedrm, 1 1/2 bath, air, all appl. Suzanne, Ext. 2441.
- RANCH - 3 bedrm, full basement, large kitchen, living & din rm, w/w carpet, s/s & gutters, 100x150 lot. 281-8579.
- RIVERHEAD - 3 bedrm ranch, panelled liv rm, dining rm, w/w, s/s, full basement w/finished rm, carport, city water/gas, lake rights, extras, adj large wooded area. Asking \$26,750. Ext. 2543, 727-0488 eves.
- MEDFORD - Levitt, 5 bedrm, living, dining, kitchen, 14x20 den w/fireplace, all appl, carpet, patio. \$35,900. Jack, Ext. 4255, 289-6708.
- HI RANCH - 1/2 acre, 160' front, 3 bedrm, 4th optional, 2 full baths, 2 car garage, dishwasher, carpet, used as M/D, tudor style front. 589-6069 after 6.
- BROOKHAVEN HAMLET - 2 story custom colonial, 3 lg bedrm 2 1/2 baths, family, dining, large living w/ colonial fireplace, full basement, 1 1/2 car garage, wooded 3/4 acre. 286-1024.
- 156 ACRES - Cooperstown vicinity, 1/2 tillable, bldgs, secluded town road, Ext. 3688, 363-7032.

For Rent

- FURNISHED ROOM - Kitchen priv. Ext. 3800, 585-3794.
- CENTER MORICHES - 2 bedrm, private beach, water view, pleasant neighborhood, 1 yr or more. 878-0249.
- SHOREHAM - 4 bedrm, 2 1/2 baths, 2 car garage, 1 acre, private beach. \$390/month. Ext. 4123, 744-4899.
- TO SHARE - With another gal, a nicely furnished 2 bedrm, 2 car garage house, 5 miles from Lab. Ext. 4337, 924-5294 eves.

Wanted

- TRUNK - Or shipping trunk, any size. Barbara, Ext. 3420.
- POLYACETYLENE - Have work finished. Please contact J. Kelsch or I. Still, Ext. 4203.
- ROOM - English-speaking female university professor need reasonably priced room & breakfast in private home near SUNY for 2 months starting Sept 28. 751-0665.
- DEHUMIDIFIER - 473-8426.
- BICYCLE - Boy's 20", 3 spd. George, Ext. 4691.
- SAXOPHONE - Reasonable, any condition. G. Hrabak, bldg 480, Ext. 3515.
- ENGINE - Kohler 7 hp for parts. G. Hrabak, Bldg 480, Ext. 3515.
- TO RENT - 1 week in Aug, pref week of 8/18, 4 room house, sleep 5, 2 mi from Smith Point. Claire, Ext. 3655.
- CANOE - Prefer aluminum, good cond. Alex 286-9257 after 7:30.
- GAS CAN - For Johnson 1957 7 1/2 hp outboard, good cond, 2 hose feed. Walt 281-8891.
- CANOE - 14-20', new or used. Paul Sieloff, Ext. 2262.
- SM REFRIG - Approximately 4 cu ft. Fran, Ext. 2062.
- HOUSE - 2-3 bedrm on North Shore to rent Sept 1, will pay \$50 for info leading to house I move into. No realators. Colef, Ext. 2009.
- MOTHER'S HELPER - Month of August, weekdays, part time, on site. Mark Horovitz, Ext. 4149, 4106 days.
- FIDDLER - Or violinist interested in playing traditional American music to accompany 5-string banjo. Herb, Ext. 3851, 286-1440 eves.
- 2 CHILDREN'S BIKES - 20"; tricycle; TV, B&W. Mark Horovitz, Ext. 4149, 4106.
- LABELS - Campbell's, soup & bean. Send to F. Chandler, Bldg T-89.

Carpools

MIDDLE ISLAND - To & from Lab everyday, need ride, near TSS, starting end of July. Maria, Ext. 4207.

Lost and Found

LOST - Tennis racquet, Davis. Chris, Ext. 2528.

Services

- AUTO BODY & REPAIRS - For free estimates call Bob 727-9669 days, 698-7647 eves.
- LOCK / KEY - Service, boat & car keys by code, combinations changed. Charlie, Ext. 2957, 744-3312 eves.
- AIR CONDITIONING - Automotive, leak checked, evacuated & charged as needed. 744-3312 after 5:30.
- HEMS & ALTERATIONS - Reasonable rates. Sharon Rosenhagen, Ext. 3334, 585-8457 eves.
- MUSIC FOR ALL OCCASIONS - Anne, Ext. 3336.
- TREE SERVICE - Removal, topping, cabling, pruning, seasoned oak cord wood. 727-1329.
- HAVE TRUCK - Yards, cellars, garages cleaned, light hauling, odd jobs done. 727-1329.
- GARAGE SALE - 83 Margaret Dr, Coram, July 19-20, 10 am-8 pm. 732-1058, Ext. 4126.
- PAINTING - Interior, exterior, seamless guttering, college seniors, 5 yrs experience, many references. 751-6431.
- GARAGE SALE - July 25-26, 10-4, 28 Aster Ave, Holtsville, N.Y.
- FISHERMEN - Do you want your catch deliciously smoked? 744-9411.

Classified Ad Policy

Deadline is 12 noon Monday for publication Friday of the same 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.
5. Ads not carried because of space restrictions will be held for publication in the next issue.
6. Ads are run only once and must be resubmitted if they are to be repeated.
7. Ads should be restricted to 20 words or less and typed or printed on the form provided, and must bear the employees signature.

<input type="checkbox"/> For Sale: Auto & Auto Supplies <input type="checkbox"/> For Sale: Boats & Marine Supplies <input type="checkbox"/> For Sale: Miscellaneous	<input type="checkbox"/> Wanted <input type="checkbox"/> Carpools <input type="checkbox"/> Lost & Found <input type="checkbox"/> Services	Check <input checked="" type="checkbox"/> the heading applying to your ad. Print or type your ad in 20 words or less.
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Ads concerning property for sale or rent cannot be accepted on this form. Special Real Estate Ad forms are available at the Office of the Brookhaven Bulletin, Room 111, 40 Brookhaven Avenue.

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(Name & Phone No. To Call)

Employee's Signature Life No. Ext.

Send to: Brookhaven Bulletin, Building 460, 40 Brookhaven Avenue (Ext. 2345).