



Gene Rogers is building a Piel Emeraude aircraft in his basement.  
—photo by Humphrey

## Plane Speaking

Gene Rogers is a design engineer at project ISABELLE's Experimental Division during the day, but when he goes home at night, he turns into an airplane builder.

For the last three years, Rogers has been constructing an all wood, Dacron covered "Piel Emeraude" aircraft in the basement of his home in Shoreham. This adds up to about 2000 hours of spare time and he expects to put in another 1000 before the plane is ready to fly.

The Piel Emeraude is a French design and is not in production in the United States. Only about 12 per year are produced in France. Rogers settled on this design over others after flying an Emeraude several years ago; "it's like comparing the handling qualities of a good sports car to that of the family sedan," he says.

His plane is a two-seater, with a wing span of 26' 4" and a top speed of 155 m.p.h. It will be powered with a 130 h.p. engine and has a fuel capacity of 30 gallons. Rogers has completed the airframe, all control surfaces and the sliding canopy. In the next two years, he will work on the engine and instrument installation, fabrication and installation of metal parts, covering and finishing.

Depending on how much avionics equipment he uses, Rogers expects to spend approximately \$6,000 on the Emeraude, but it will be worth up to \$15,000 when complete. Finding a hangar to keep it in at a price that "won't bankrupt me" will be Rogers' problem when the plane is ready to fly. Generally, a hangar rents for \$80 to \$100 per month.

Of course, one of the first things anyone says to Rogers when they see the aircraft taking shape in the basement, is, "aha, how are you going to get it out?" But he is prepared. He has hinged a 5' x 5' area opening out onto the backyard, so that when the time comes he will be able to slide the plane out.

Rogers' progress is checked regularly by inspectors from the Federal Aviation Administration. As he completes each section, it must be checked out by FAA officials be-

fore it is closed in. The inspector then signs a logbook certifying that the workmanship and materials are satisfactory. Before he can fly the aircraft a final inspection is made at the airport. After that, he must fly it 60 hours alone, or with a licensed co-pilot, before he can take up passengers. The plane is strictly a pleasure craft and may not be used for commercial purposes.

A member of the recently formed BERA Aviation Club, Rogers has a pilot's license and has logged about 380 hours flying time in the last ten years. To do this he has rented planes and was co-owner of a Cessna 140 for a few years. He expects to fly the Emeraude about 60 hours per year.

Although many people dream of building their own planes, or even start to build one, Rogers says only one in ten are actually completed. Currently about 2,000 home-made planes are licensed in the U.S. Rogers works from production drawings but there are no instructions as to how to build the plane. He has had to educate himself in airplane construction.

His design engineering experience is, of course, a big plus, and he has been building planes in miniature for many years. As a youngster he started building model planes and later continued the practice as a hobby. In recent years he designed radio control model planes and wrote articles on the subject for "Flying Models" magazine. He also does cabinet work and has restored an MG automobile. In short, he loves to build things and the Piel Emeraude is just the most ambitious project to date. Rogers is also thinking of designing floats for the aircraft, as an amphibian would be an advantage in this area. He hasn't thought what he might build after that.

## Lecture Reminder

Biophysicist Joseph Wall will present a Brookhaven Lecture on "Counting Atoms, Weighing Molecules" at Berkner Hall, Wednesday, February 28, at 8 p.m.

## The Solar Eclipse On February 26

*We are indebted to astronomer Edward Fomalont of the National Radio Astronomy Observatory at Green Bank, West Virginia who has prepared this account of the solar eclipse for our readers.*

"You're going to Winnipeg in February! Are you crazy?" Well, maybe, but I've never seen a total eclipse of the sun and the one on February 26 will be the last visible from North America until 2017.

An eclipse is a spectacular and beautiful event. It is in reality an accident of geometry of the earth-moon-sun circumstance which gives us this spectacle. The moon casts a cone-shaped shadow tapering to a point about a quarter of a million miles "down sun." By coincidence this distance is about the same as the earth-moon distance and occasionally the moon's motion carries the shadow across the earth. It is in this shadow, called the umbra, where a total eclipse can be seen. On the average, three total solar eclipses occur every two years somewhere on the earth. The width of totality is about 150 miles wide and the path may be as long as 8000 miles. At each spot on the earth a solar eclipse occurs every 350 years on the average.

Nearly all of North America will see a partial eclipse of the sun on Monday, February 26. On Long Island, the eclipse will begin at 11:00 a.m. and end at 1:34 p.m. At about 12:23 approximately 68 percent of the sun will be covered and the sky will be somewhat darker than usual.

### Viewing Techniques

Never look at a partially eclipsed sun with unprotected eyes. One safe viewing method is to look through a double thickness of fully developed black and white film as a filter. A very dark arc-welders glass can also be used. It is *not* safe to use smoked glass, color film or sunglasses, even in combination. In a darkened room, a small hole in a window shade will cause a pinhole image of the solar crescent on the floor or wall. At a distance of about ten feet from the pinhole, the solar disk would be about one inch in size. A bigger hole will let in more light but the image will become fuzzy. When using binoculars or a telescope it is best to project the image of the sun onto a piece of paper several feet behind the instrument. During the eclipse, notice that the shadows from the branches of trees have a crescent-shape appearance.

It is interesting to record an eclipse on a single piece of film using a camera rigidly attached to a tripod. The motion of the earth causes the sun to move its own diameter every 2 minutes and 10 seconds so that exposures made every five minutes will produce adequate spacing between images. A shutter speed of 1/125 seconds with an aperture of f/8 using ASA64 rated film and a #5 neutral density filter is recommended for proper exposure.

### The Path of Totality

For east coast residents the February 26 eclipse is not well-suited for convenient travelling to a location of totality. The Winnipeg area is the closest and February

weather records suggests a 75 percent chance of clear weather. For warmer weather buffs, Portland, Oregon lies in the path of totality but has less than a 20 percent chance of acceptable weather. The path of totality surges northward from Winnipeg across Hudson's Bay into Eastern Greenland where there is an 80 percent chance of clear weather and about a 20 percent chance of survival. Perhaps some of you remember the eclipse of March 7, 1970 which skirted the east coast. That was really the best opportunity to see a total eclipse of the sun until the 21st century, although there will be a total eclipse visible from the island of Hawaii on July 11, 1993.

### Why Study An Eclipse?

The scientific study of solar eclipses has decreased in the last forty years. Until the coronagraph was invented in 1930, the only time that the tenuous solar atmosphere (corona) was visible was during a total eclipse and astronomers scattered all over the earth to photograph and study the solar corona for a few minutes, weather permitting. Even now, the outer corona can only be seen during an eclipse. A famous eclipse on May 29, 1919 was used to test Einstein's Theory of Relativity by photographing the stars near the sun in the darkened eclipsed sky and comparing the position of the same stars taken six months later during the night. The relative changes of the star positions caused by the bending of light as it passed through the gravitational field of the sun confirmed a prediction from Einstein's theory which was unexpected from the more familiar Newton's laws of gravity.

With modern computers it is possible to predict the time and place of a solar eclipse many thousands of years in the past and future. Historical and archaeological records are full of references to eclipses, some of which stopped wars or toppled dynasties. However, large discrepancies were at first obtained in the comparison and implied that the calculations were in error. Two effects seemed to cause the discrepancy; a secular decrease in the rate of spin of the earth and a decrease in the motion of the moon around the earth. From this, an understanding of the dynamical effects of the earth-moon tides have resulted.

Radio astronomers are not completely in the dark when it comes to solar eclipses. Professor Zirin and colleagues at Cal Tech plan to use the VLA (Very Large Array) now under construction by NRAO in New Mexico to observe the sun during the eclipse. They expect to pick out small radio features on the sun as the limb of the moon covers or uncovers them.

So, during lunch break on February 26 cast a glance at the sun (with the proper precautions) and view a spectacle which has surprised and frightened early civilizations and has led to a better understanding of the orbital history of the earth and the moon.

## On Buying A New Car

Prospective auto buyers need only do a little homework, according to the Society of Automotive Engineers, to select just the right fuel economy car.

Four points which new car buyers need consider are:

- How many passengers will regularly ride in the car?
- What kind of luggage or storage space will be required?
- What comforts, such as smooth ride or power accessories, are needed? and,
- Will the car have to tow a trailer?

Formerly, auto categories were based on wheelbase dimensions. The Environmental Protection Agency now divides the cars into subcompact, compact, midsize, and full size, based on interior measurements, a combination of front seat, rear seat, and trunk space. Rear seat dimensions, especially knee-room space, vary widely among the size classes.

Also, trunk space varies considerably: between subcompacts and full-size cars, capacities may range from 7 to 20 cubic feet of space. Fuel efficient subcompacts can, however, compete with larger cars when equipped with options such as a hatchback, space-saver spare tire or station wagon option.

Depending upon a new car buyer's needs and priorities, style is a wide area of choice. A driver who does extensive highway driving may value overall comfort, and may select a large car for its convenience options such as power steering, brakes and seats and air conditioning (an option which subtracts engine horsepower, however). If decreased operating costs and easy maneuverability are more highly valued, a smaller, lighter car, many of which feature rack-and-pinion steering, may be the buyer's better choice.

A boat or camping trailer simply can't be towed by a subcompact. If equipped with an economical six-cylinder engine, a compact car can tow up to a one-ton trailer. Practicality and safety require that loads larger than one ton be hauled by a large car with an eight-cylinder engine. Towing a trailer, and specially equipping the tow vehicle with options, such as heavy-duty suspension and radiator, detract from fuel economy.

Be realistic about engine size: the smallest engine is not always the most fuel-efficient choice. For example, some large cars, originally designed for a V-8, may offer an "economy six package" which, due to the heaviness of the car and its options, may make a negligible difference in mpg, reduce power and increase engine wear. A larger, heavier car equipped with the smallest engine must work harder and is not the best choice for overall economy.

In general, a properly driven manual transmission will deliver between two and four mpg over an automatic. And, the lower the transmission gear ratio, the better the economy. The less the engine has to spin, the less gas it uses.

The rear-end gearbox, or differential, converts driveshaft revolutions to wheel revolutions and it has a numerical ratio. A lower ratio will deliver less power - but will increase mpg. A typical car may offer a 2.75 rear-end gearbox as standard, compared to an economy car's 2.50 or a 3.00 performance option.

Finally, learn to use the EPA's fuel-economy estimates wisely. These laboratory readings are good for making relative comparisons among different cars from which a buyer may choose. The EPA evaluations are valuable for comparing one size and type of car to another, but not for actual, expected road mileage.

## Arrivals & Departures

### Arrivals

Jeffrey J. Clark.....	Adm. Sys. & Data Proc.
Patricia A. DeSantis.....	Applied Math.
Enrique S. Garcia.....	Applied Math.
Stephen C. Gravier.....	Accelerator
Claire E. Kochendorfer.....	Accelerator
Yin-Nan E. Lee.....	Energy & Env.
Alfredo U. Luccio.....	Accelerator
Carole A. McNulty.....	Supply & Materiel
Stefan Palo.....	Physics
John N. Pesanello.....	Contr. & Proc.
Leo Sadinsky.....	Accelerator
David H.L. Turner.....	Energy & Env.
Jiunn-Ming Wang.....	Accelerator
Phyllis Wolosin.....	Physics

### Departures

Jeffrey H. Brateman.....	Energy & Env.
Donald W. Joynes.....	Plant Engrg.
Sherie Michaille.....	Chemistry
Kathleen K. Taylor.....	Chemistry

## CREF Values

January	\$35.72	February	\$34.96
March	36.15	April	39.28
May	39.62	June	38.94
July	41.03	August	42.17
September	41.86	October	38.18
November	38.80	December	\$39.44
		January	\$40.90

## Another Blackout

The Lab was without power on Sunday from 5:40 a.m. to about 2:20 p.m. The insulators on the primary feed broke and several hundred feet of line fell in the snow. In switching over to the alternate feed, there was a flashover at the incoming switch due to the initial fault, and the Fifth Avenue Substation was severely damaged. This was the second complete power failure in as many months.

Those hardest hit were the people living on site, some 88 families in apartments and 135 dormitory residents. The temperature on Sunday ranged from -3° to 12°. Many of the onsite residents got in their cars and went elsewhere for the day. Others kept warm at Berkner Hall and the Recreation Bldg. where emergency generators were set up.

LILCO crews responded promptly and all Lab departments were alerted to do what was necessary to protect the scientific equipment. For instance, from power supplied by an emergency generator, portable electric heaters were placed in the Computing Facility to maintain the temperature so that no condensation would form in the machines.

The Laboratory is currently assessing the damage done because of the nine-hour power outage, and is working with LILCO to ensure that such massive power failures do not recur.



Jeffery Boswall

## Safari To Ethiopia

The BERA Mountain and Canoe Club, in cooperation with the National Audubon Society, will present an Audubon Wildlife Film and Lecture on Tuesday, March 6 at 8:30 p.m., in Berkner Hall.

The film, entitled "Wildlife Safari to Ethiopia," was filmed, produced and directed by the well-known English lecturer, Jeffery Boswall. Mr. Boswall has worked as a radio and television producer for the B.B.C. Natural History Unit for over seventeen years and his productions have won numerous international awards. His infectious sense of fun and sparkling wit have given him a reputation among his contemporaries and audiences as a truly outstanding personality.

The little known country of Ethiopia has a greater range of habitats and a greater variety of plants and animals than any other country in Africa. Mr. Boswall's film is a product of a six-month journey as he climbed from one plateau to another passing through different terrains: lifeless, baking salt desert, islands of fossilized coral in the Red Sea, the savannahs of the Awash National Park, the gorge of the Blue Nile, the Abyssinian tablelands where stands Addis Ababa, the national capital, and finally the most spectacular mountain scenery in the world. Mr. Boswall received a gold medal from Emperor Haile Selassie for this magnificent film.

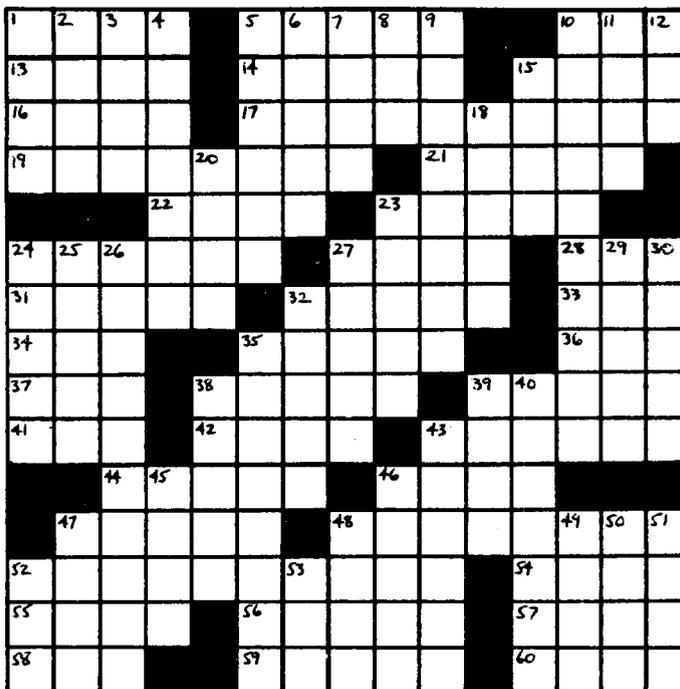
Admission: \$2.00 for adults and \$1.00 for senior citizens and those under 18 years of age. Tickets will be sold at the door.

## Crossword Puzzle

### ACROSS

- 1 Clean up a lab spill
- 5 "Sound of Music" family name
- 10 Friedman of Accelerator Dept.
- 13 Busy place
- 14 Ancient Asia Minor district
- 15 Polyhydroxy alcohol suffix
- 16 Exceptional person
- 17 Site of frequent programs
- 19 Carried, as a Brookhaven beeper
- 21 Feat for Malcolm Howells
- 22 Slangy negatives
- 23 Pastime for some employees
- 24 Bubble-chamber bubble, roughly
- 27 "Restricted..."
- 28 Jencius of the Pink League

- 31 Singer Bailey
- 32 It's watched at the Nassau Coliseum
- 33 ... de la Cite
- 34 Part of E.T.A.: Abbr.
- 35 NFL's Noll or Knox
- 36 Mauna...
- 37 Brazil resort
- 38 Fabric junctures
- 39 Medical slide
- 41 Building annex
- 42 Members of a '78 softball team
- 43 Pipsqueaks
- 44 Mild oaths
- 46 In receipt of 9 Down
- 47 Gear for an Islander
- 48 Site of the Doubler
- 52 Tradescantia in a Biology Department project



- 54 Honor an employee
- 55 Towel word
- 56 The "March King"
- 57 Singer-composer Paul
- 58 "A mouse!"
- 59 Lawrence of the Accelerator Department
- 60 Radiation shield

### DOWN

- 1 Concern of R. Lehn
- 2 Skid row denizen
- 3 With: Fr.
- 4 Conference hall
- 5 "... season to be jolly"
- 6 Memorized methods
- 7 "And giving... up the chimney he rose

- 8 Target for 28 Across
- 9 It's rarely big enough
- 10 Certain BNL volleyball player
- 11 Kind of tube
- 12 B.P.O.E member
- 15 Eye part
- 18 Gloomy
- 20 Mesaros of Plant Engineering
- 23 Gator's cousins
- 24 Feat for 28 Across
- 25 Jeopardy
- 26 His wife, Inge, modelled in the November 16 fashion show
- 27 Grads
- 29 "With... and a bound"
- 30 Sign of sorrow
- 32 Rap sessions

## Kick The Habit

A smoking withdrawal clinic will be presented by the American Cancer Society at Dowling College in Oakdale starting March 7. The program will be held on four consecutive Wednesday evenings at 8 p.m., and will consist of talks by physicians, graphic films and intensive group discussion. The total fee is \$10 for adults, \$7 for students. For information, call 567-0849, or 589-7578.

## Runner's Day Slated

The second annual Runner's Day, a full day of events of interest to runners, will be held tomorrow, February 24 beginning at 11 a.m. when "social runs" are scheduled. A film of the 1976 Olympic Marathon Trials held at Eugene, Oregon will be shown at 1 p.m. followed at 1:30 by a special awards presentation. At 2 p.m. and at 2:30 p.m., two discussion groups are planned for beginning and marathon runners concerning training, exercises and proper shoes.

The BNL Roadrunners, sponsors of the Day, will provide free refreshments and babysitting. All runners, beginners and veterans, are invited.

# BROOKHAVEN BULLETIN

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## In Rehearsal



On March 2, 3, 9 and 10, the BERA Theatre Group will present Niel Simon's comedy, "The Gingerbread Lady" at 8:30 p.m. in Berkner Hall. Played by Jane Love (left), the "lady" of the title is Evelyn Meara, a quick-thinking, fast-talking former night club singer who is coping with middle-age. Bruce Martin (right) appears as a wisecracking Spanish delivery boy. Among Evy's friends and relations are an unemployed actor (played by David Gross), a legendary beauty turned 40 (Ruth Basile), a college-aged daughter (Lori Pearsall) and a musician and former lover (Ron Ruth). Tickets for the upcoming production are \$3 general admission and \$2 for those 65 and over or 18 and under. Call 286-0407 or 286-9584 for reservations. —photo by Rosen

## \*Stoltzman In Concert\*

BNL's BERA Concert Group will host renowned American clarinetist Richard Stoltzman on Thursday, March 8 in Berkner Hall. Stoltzman will give a preview of his upcoming recital in the "Great Performers at Lincoln Center" series.

Ranked with Rampal, Andre and Tuckwell, Richard Stoltzman has made a spectacular rise to fame in recent years as one of the preeminent clarinetists of our time. He has been acclaimed as "an artist of indescribable genius. . . (and) a wonder!" by both The Washington Post and The New York Times.

Stoltzman has appeared with the world's leading chamber music groups, including Isaac Stern and Friends at both the Kennedy Center for the Performing Arts and at Carnegie Hall. He has accompanied the Amadeus, Cleveland, Guarneri, Vermeer and Tokyo String Quartets and the Beaux Arts Trio, in addition to appearing with TASHI, of which he is a founding member. Stoltzman, winner of the 1977 Avery Fisher Prize, will perform as a New York Philharmonic soloist this season.

Appearing on March 8 with Bill Douglas (piano and bassoon), Stoltzman will perform works by Bach, Schumann, Saint-Saens, Douglas, McKinley and Polenc. Tickets for the concert, which begins at 8:30 p.m., are available at the door and are \$4 for adults, \$2 for students and those over 65 and \$1 for those under 18.

## Diners Note

Employees who order food "to go" at the cafeteria, should take it out in paper containers and use the plastic flatware provided for this purpose. The regular flatware and china are for the use of diners in the cafeteria and should remain there. If you find any of these items in your building, please return them. Their loss makes cafeteria service difficult to maintain, and they are costly to replace.

## Cooking Exchange

The February 28 session of the Cooking Exchange will focus on American Indian Cooking. Featured will be an interesting collection of various Indian tribe recipes including roast wild duck, smoked fish soup, fry bread, venison with wild rice dressing, green chili fry, roast pineapple, and Ah-Gee Chum-Buh-Gee (a delicious sweet.)

Meetings are held at the Recreation Building from 12:30 to 2:30 p.m. Admission is 75¢, and babysitting is provided at 25¢ per child.

## Gym Weekend Closing

The gymnasium will be closed on Saturday and Sunday, March 3rd and 4th. The purpose of this closing is to have the floor cleaned and oiled. Because it is important to allow the floor to dry thoroughly after the oil is applied, no admission, under any circumstances, will be allowed on these two days.

## Cafeteria Menu

### Week Ending March 2, 1979

<b>Monday, February 26</b>		
Tomato vegetable soup	(cup)	.30
	(bowl)	.40
Vegetarian		1.25
Grilled ham steak w/1 veg.		1.45
Hot Deli - Pastrami	(on bread)	1.20
	(on roll)	1.30
<b>Tuesday, February 27</b>		
Oxtail soup	(cup)	.30
	(bowl)	.40
Meatloaf and hash browns		1.30
Macaroni and cheese w/1 veg.		1.15
Hot Deli - Corned beef	(on bread)	1.30
	(on roll)	1.40
<b>Wednesday, February 28</b>		
Pepperpot soup w/spaetzle	(cup)	.40
	(bowl)	.50
Tuna noodle casserole		1.25
Southern fried chicken w/corn fritters		1.35
Hot Deli - Veal pattie and peppers hero		1.30
<b>Thursday, March 1</b>		
Chicken noodle soup	(cup)	.30
	(bowl)	.40
Pork and cabbage crisp		1.35
Salisbury steak w/1 veg.		1.25
Hot Deli - Baked Virginia ham	(on bread)	1.30
	(on roll)	1.40
<b>Friday, March 2</b>		
Manhattan clam chowder	(cup)	.40
	(bowl)	.50
Fried seafood platter w/fr. fr.	(plus tax)	1.87
Beef stew on rice		1.40
Hot Deli - Smoked turkey breast	(on bread)	1.30
	(on roll)	1.40

## Volleyball

### Division A

On February 12, No Names took all three from Nuts & Bolts: 15-6, 15-13, 15-8. Diamonds shone over Lookin' Good: 15-7, 15-7, FORFEIT. Nuclods beat the Popovers: 15-11, 16-14, 15-6. Oceanography over Family Affair: 15-3, 15-7, 15-12.

### Standings End Of Second Round (Not Final - Make Up Games)

Oceanography	21- 0
No Names	17- 4
Family Affair	10- 8
Diamonds	10-11
Nuts & Bolts	10-11
Lookin' Good	8-10
Nuclods	6-15
Popovers	2-19

### Division B

Nads took over the LeMufs: 15-5, 15-7, 15-10. Leftovers over Wisa's: 15-11, 15-3, 17-15. Balls & Strikes vs Medical: Postponed.

<b>Standings</b>		
Leftovers	9- 3	
Medical	7- 2	
Nads	7- 5	
Balls & Strikes	6- 3	
LeMufs	3- 9	
Wisa's	1-11	

### Employees' League

On February 14, the Bumps swept the Spikers: 21-11, 21-23, 21-14. Cool Tools took all three from Atom Spikers: 23-21, 21-9, 21-7. Phoenix shone over Tog: 21-13, 21-19, 16-21.

<b>Standings</b>			
Bumps	7	2	.778
Toga	6	3	.667
Phoenix	5	4	.556
Spikers	5	4	.556
Cool Tools	3	6	.333
Atom Spikers	1	8	.111

## Nursery School

Openings are available in both the three and four-year old classes at the Upton Nursery School. For further information, call Marie Murtagh at 821-9587.

## COOL IT!

65° by Light; 55° by Night.

## Bowling

### Pink League

The Lickety Splits had a great night. Mary Grace Meier had high game of 187 plus a 175 for a 494 series. Helen Keeley had high series with 178/172/509 and Marie Grahn had a 167.

Every team had their stars: the Pinsplitters had Marge Stoeckel with a 174, Ellie Adams with a 161 and Millie Connelly with a 160. Blake's Bellyaches had Carol Beckner with a 179 and Barbara Cochrane with a 166. The No Names, though, had the No. 1 star of the night in Pat Jencius who not only bowled a 165 but picked up the 7-9-10 split.

### Purple & White League

The Portsiders Plus One remained in first place with the Draftecs moving into second. Jim Griffin had high game and high series this week with a 225/189/183-597 series, Ken Asselta had a 202/203, and Ed Meier 205/197. Other good games were bowled by Pat Manzella 186, Sharon Smith 187, Betty Jellett and Mary Grace Meier 170.

### Red League

The Anachems won 8-3 over the 76'ers. They had 3021 pins (a 1112 game). R. Wilson had a 200, T. Prach 207, and P. Klotz 631 gross. R. Larsen had a 236 and F. Griswold grossed 609. The Designers took the Old Timers 11-0. The only bright spot in this match-up was a 238 by R. Adams.

This Isa Team won 7-4 over the Cosmos. The game they lost was a 1042. R. Barberich had a 210 and J. Sauls 639 gross pins. The Sandbaggers came away with 7 against the Dynamites. R. Meier (201) grossed 608 and K. Riker 615.

The Freon Loaders bowled well as a team but only took 4 in a match with the Sparks. J. Kelczewski 645 gross, F. Powers 616, J. Fortunato 612, and F. Stahman 605. All bowled over average.

## Classified Advertisements

### Placement Notices

The Laboratory's placement policy is to select the best-qualified candidate for an available position, with consideration given to candidates in the following order of priority: (1) present employees within the department, with preference to those within the immediate work group; (2) present employees within the Laboratory as a whole; and (3) outside applicants.

Each week, the Personnel Office lists new personnel placement requisitions. The purpose of these listings is, first, to provide open placement information on all nonscientific staff positions; second, to give employees an opportunity to request consideration for themselves through Personnel; and, finally, for general recruiting purposes. Because of the priority preference policy stated above, each listing does not necessarily represent an opportunity for all candidates. As a guide to readers, the listings are grouped according to the anticipated area of recruitment, as indicated below. Except when operational needs require otherwise, positions will remain open for one week following publication date.

For further information regarding a placement listing, contact the Personnel Placement Supervisor, Ext. 2882.

**OPEN RECRUITMENT:** Opportunity for present Laboratory employees and outside applicants.

928. ACCOUNTANT - Requires BS in accounting or equivalent experience in diversified bookkeeping and accounting procedures. This experience is to include financial statements and analysis, general ledger, fixed assets, and ledger analysis. Fiscal Division.

929. HEAVY EQUIPMENT MECHANIC OPERATOR - Demonstrated experience in the operation, repair and maintenance of cranes, backhoes, bulldozers, and related heavy equipment. Plant Engineering Div.

**Autos & Auto Supplies**

75 BUICK ELECTRA 225 - white w/blue corduroy int, excel cond. \$4000 or best offer. Mike, 727-8929 after 6.

77 MERCURY MONARCH - 6 cyl, std-o.d., 2 dr, vinyl roof, 22+ mpg, good cond. \$3450. Chris, 929-8349.

72 VEGA - good for parts, snow tires, AM/FM, a/c, best offer. Hareh, Ext. 2055 or 924-4355.

8' CAMPER CAP - insulated & paneled w/insert incl 2 bunks, table, sink, stove & ice box, all self contained. \$800. 929-8105.

(5) H78-15 TIRES - excel cond. \$125. Vera, Ext. 2540 or 979-0635.

76 VOLVO 242 - white, sunroof, AM/FM stereo, overdrive, 14,000 mi, reg gas, immaculate. \$5500. AT6-8847.

67 PONTIAC GTO - 400 c.i., 350 hp, ps/pb, AM/FM 8 track stereo, new Keystone mags, G-70 Dunlop tires, mint cond, all stock. \$2500. Karen, 475-3067 after 7:30.

74 COMET - 2 dr, 6 cyl, ps, a/t, new tires, low mileage, excel cond, economical. \$2000. 283-6338 after 4.

71 PINTO - 2 dr sedan, 42,000 orig mi, a/t, very good cond. \$750. Bonnie, Ext. 2921 for appt.

74 TRUCK CAMPER - Corsair slide-on 10 1/2', refrig, bathrm, stove & oven, sleeps 6, compl self-contained, excel cond. Mike, 878-1325.

67 MUSTANG - Best offer. 281-0268 after 6.

71 SKYLARK - excel cond in & out, a/t, r/h, good tires, brakes & exhaust, recent tune-up. Asking \$1250. Terry, 281-0360.

78 F250 4X4 - showrm cond, 7 1/2' pwr plow, ps/pb, AM/FM 8 track, rustproofing, undercoat, 4 spd, lock hubs, 10,000 mi, no pollution. Asking \$9250. 281-7230 after 5.

74 FORD TORINO WAGON - low mileage, excel cond, a/c, ps/pb. \$2500. Days 289-8935, after 6 pm 289-6785.

65 VW VAN - clean in and out, many new parts, needs clutch. \$325. 736-0524.

69 REBEL - SST 6 cyl, very good cond. Ext. 3096.

67 OLDS - Vista Cruiser, a/t, ps/pb, 9 pass, good cond. \$350. Ext. 2518 or 744-8894.

CAMPER - 8 1/2', 72 Sun Line, sleeps 4, very good cond. \$1300. 981-5769.

66 BUICK ELECTRA - body excel, good for parts. \$100. 736-0524.

**Boats & Marine Supplies**

15' WOODSON TRI-HULL - fiberglass, w/40 hp outboard, good cond. 732-9324.

15' CUSTOMCRAFT FIBERGLASS SPEEDBOAT - w/35 hp Johnson & trailer, good cond. Asking \$900. P. Newhouse, Ext. 2253, 698-8950.

**Miscellaneous**

FM BOOSTER - Realistic model plugs direct to FM car radio, never used. \$12. Terry, 281-0360.

GUINEA PIGS - 2 adult males, incl aquarium, dish, food, water bottle, the works. \$12. 698-0710.

MIKE - Shure model PE515 w/stand. \$65. Ext. 4003, 924-4373.

TAPE RECORDER - SoniMatic reel-to-reel monoral, 3 spd. \$35. I. Meyer, Ext. 3038.

WASHER & DRYER - Frigidaire, excel cond, lg capacity, white. V. Stewart, Ext. 3938, 878-8040.

ANTENNA - CB bass pwr mike cable. \$50. Ray, 924-6794 after 6.

STEREO RECORDER - reel-to-reel (7"), 3 motor, 4 head, Astrocom/Marlux model 407, less than 20 hr. \$200. Jellett, 744-2097 after 6.

NORMAN KILN - unused for home use, w/access. \$200. 924-6582.

GOLF CLUBS - woods, 1, 3, & 4, titleist 90's, used 1 season, D1, reg. \$50. Joe, Ext. 4133.

2 METAL CLOSETS - 42" w x 19", 27" w x 22". \$30 & \$20 or \$40 for both. Frank, Ext. 3121.

CUISINART FOOD PROCESSOR - metal base, used less than 1 yr. \$125. 751-3748 after 6.

BUNDY FLUTE - good cond. \$100. 929-4173 after 5.

PHILCO CHEST FREEZER - good working cond, \$50; 2 bedrm dressers, 3 & 5 drawers, mahogany stained, \$10 ea. 289-3415.

SKI BOOTS - Lange XL 800's size 10, like new, asking \$100; poles, \$5; skis, 190 cm Head 320 ES w/Solomon 444 bindings, must see. Paul, after 3 pm 475-3829.

ELEC MEAT SLICER - \$35; floor waxer & scrubber, \$20; Sears rider mower, self-starter, new front end, blade & belts, \$175. 281-5498.

SHELF HEADBOARD, FOOTBOARD - \$15; swag lamp, \$8; Gerry carrier, \$8; bed rails, \$3. Jim, Ext. 4151, 744-2514.

SKI BOOTS - Norstar, ladies' size 9, 4 buckles, blk & orange, 1 yr old. \$25. Karl, Ext. 4192.

ARNOLT MARINE ENG - 4 cyl, reverse gear, needs work, \$100; cast iron box stove, almost new, \$60. 878-0974.

TYPEWRITERS - office standard, Remington pica, Royal elite, \$25 ea; Sunbeam 4-sandwich grill & waffle iron, \$15. Ext. 3771, 878-1471.

AB DICK OFFSET PRESS - model 360-11x17, shoot delivery, excel cond, reasonably priced. R. Smith, 727-4079, 727-9759.

WELL PUMP - Westinghouse AC motor, 1/2 hp, 60 cycle-115/230v, 8.2/4.1 amps, 3525 rpm, 40° rise. \$45. W. Palais, Ext. 2913, 698-0576.

GAS STOVE - re-upholstered chairs, love seat, Youngstown sink, spin-dry washer. Carl, 475-4728.

CONN FRENCH HORN - brass case incl, like new. Asking \$200. Tom, 744-4625 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.

**For Sale**

N. PATCHOGUE - near shopping, good schools, 4 bedrms, D/R, eik, 16x24 pecky cypress L/R w/fp, in-ground pool, 1 acre wooded, 2-car gar, immaculate. \$52,000. AT6-1285.

EAST MORICHES - 3 bedrms, heated sun porch, bsmt, 2-car gar, fenced backyard, 140x100, extras. \$37,500. 878-1471 eves/weekends, or Ext. 3771.

BELLPORT VILLAGE - fenced 1/2 acre, 3 bedrms, 2 baths, kitchen, L/R, screened porch, 2-car gar, att greenhouse low taxes, 100 yds from golf & tennis club. \$45,000. 286-8570.

ROCKY POINT - 2 bedrms, 2 floor house on 1/2 acre, 1 mi from beach, low taxes, gar. \$34,000, principals only. Ext. 2865, 744-4781 after 6.

SHIRLEY - waterfront prop, bulkheaded, 51' x 214', low taxes, 5 cozy rms (2 bedrms, eik, bath, L/R, Florida rm), full heated bsmt, city water, oil heat, w/ furn & appl. \$49,990. Ext. 4253, 928-4926.

NORTH FORK - LI Sound, secluded, 3 bedrms, 3 baths, 2 fp, rustic ranch in heavily wooded area, lg pine kit, L/R, D/R & fam rm, beautifully landscaped w/16x32 pool. 727-7741 after 6.

E. PATCHOGUE - mu: sell, 3 1/2 yr custom built oversized 9 rm wide ranch, prime area, 4/5 bedrms, 2 1/2 baths, eik, D/R, 2 dens, 2 garages, appl, carpeting, beautifully landscaped. 289-0443.

SHIRLEY - or rent w/option to buy, 3 bedrm ranch, L/R, D/R, den w/fp, w/w, eik, fin bsmt w/bath & prvnt ent, 1/2 acre, 4 appl. Will hold mortgage & negotiate terms. 281-8016.

ROCKY POINT - The Tides, 70' ranch on 1/2 acre, 3 bedrms, 2 full baths, L/R, D/R, den w/fp, eik, oak floors, full bsmt, gar, patio, ex schools, shopping, pr beach. Otto, Ext. 4605, 744-6482.

PORT CHARLOTTE, FLORIDA - 2 lots 80'x125', developed area, city water, elec. \$3600 ea, both \$7000. 475-4728.

BELLPORT VILLAGE SOUTH - 4 bedrm colonial, 2 1/2 baths, eik, D/R, L/R, fam rm w/fp, 2-car gar. Ext. 7730, 286-8097.

SHOREHAM VILLAGE - lg Clarendon custom Colonial, 4 bedrms, 2 1/2 baths, den w/fp, eik, formal D/R, 1 1/4 wooded acres, deck, walk to tennis, beach, country clubs. \$80,000, reduced. 744-1935.

**For Rent**

SOUND BEACH - 3 bedrm, 1 1/2 bath house. \$400/mo, all util incl. Ext. 2926, 281-0268.

CORAM - 1 lge bedrm apt, furn, until 8/31. \$265/mo. Immed occup. Ext. 2437.

RIDGE - 5 rm brick house, oil h/w heat, gas range, refrig, bsmt, w/w, fp. \$285/mo. 924-4085.

BELLPORT VILLAGE - short term rental, March 10 - April 20, 4 bedrm house w/fp. Ext. 4771, 286-8747.

MEDFORD - 6 rm house, gar, bsmt, 2-3 bedrms, 1 1/2 baths, semi-furn, 15 min to Lab. \$300 + util. Dick, Ext. 2486.

MASTIC - 6 rm house, bsmt, 3 bedrms, unfurn, avail immed, insulated. \$350 + util, security. Ext. 3937, 286-8195.

VT CHALET - beautifully furn, X-C skiing trails, near Bromley, Magic & Stratton Mtns. 757-5599 after 4.

MILLER PLACE - 3 rm apt, priv ent, semi-furn, avail immed. \$250/mo incl util. 732-9324.

**Wanted**

WITNESS TO ACCIDENT - abou: 12:25 pm Feb 7 at Bell & Rochester intersection. 475-8686.

LABELS - Campbell's Soup or beans, V-8 & Franco-American, need only front half w/name. Gangwer, Bldg 815.

MAN WHO WANTS BINOCULARS - please call Claire at Ext. 3655.

TO RENT - 1 or 2 bedrm furn apt in North Shore area. J. Wangelin, Ext. 3561.

ENG REBUILDING STAND - for V8 eng. Louis, Ext. 4046.

DART LEAGUE - anyone interested in starting Dart League please contact BERA Film Service, Ext. 3347 or Joe Nolan.

B/W PORTABLE TV - about 19". Roy, Ext. 4600.

1" VIDEO TAPE - new or used. Jack, Ext. 4255, 289-6708.

GOOD HOME - for 2 yr Ches Bay/Lab male dog, all shots. Sharon, Ext. 3793, 878-2591 after 6.

SHOTGUN - Browning O/U 12 ga. Ext. 3066.

BABYSITTER - mature woman for 1 yr old boy at your home, approx 3 days/wk, Patchogue area only. Cathy, 654-2591.

KING TUT TICKETS - trade 2 for Mar 11 for Feb 16-28 or after Mar 25. Ext. 2096.

**Car Pools**

KINGS PARK - would like to start or join existing car pool, my car seats 5. Eva, Ext. 4691.

NEW HYDE PARK VILLAGE AREA - wish to join car pool. F. Bock, (516) FL4-1766.

SHOREHAM - would like to form 2-man car pool in vicinity of N. Country Rd & Miller Ave. Pete, Ext. 3297, 821-9547.

S. HUNTINGTON - LIE Exit 49, Melville: need people to complete car pool. George, Ext. 2365, 432-5436.

**Services**

FIREWOOD - seasoned oak, 4'x8'x18" logs, \$50 delivered; 4'x16'x18", \$90. 924-4284 after 5:30.

FIREWOOD - seasoned hardwood. \$90/cord, delivered. 281-8016.

EXPERT TUTORING - certified teacher, reading, math to grade 12, French, German, English, in my home. \$10/hr. 941-4328.

TYPING - all material. Ext. 3076.

BABYSITTER - our home, Bellport, care for infant 9 am - 6 pm, 1st grader 2:30 pm - 6 pm, salary negotiable. 286-0103 after 6.

TAXES - prepared by tax consultant, your home or mine, reasonable. John, 732-2472.

TUTORING - certified teacher, chemistry, biology, general science, in my home. 698-3856.

**Classified Ad Policy**

**Deadline is 12 noon Monday for publication Friday of the same week.**

- The Brookhaven Bulletin's classified section may be used only by active and retired Laboratory employees.
- All items for sale or rent must be the advertiser's property.
- Ads for material acquired for resale in association with a full or part-time business cannot be accepted.
- Firearms offered for sale or trade may not be brought on site.
- Ads not carried because of space restrictions will be held for publication in the next issue.
- Ads are run only once and must be resubmitted if they are to be repeated.
- 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, 40 Brookhaven Avenue.

For Sale: Autos & Auto Supplies     
  For Sale: Miscellaneous     
  Lost & Found     
  Wanted  
 For Sale: Boats & Marine Supplies     
  Car Pools     
  Services

Please print your ad below in 15 words or less using one word per block. Include name and phone number to call.


Note: The following must be completed for your ad to appear.

NAME (Please Print).....

Employee's Signature..... Life No..... Ext.....

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