



*A different drummer. . .*

## Former Olympic medalist 'still in there running!'



"I owe a lot to track," says Jon A. Young, of Y-12's Employment Department.

Apparently track owes a few debts to him, and a part of that debt will be paid next week when the University of Tennessee awards its "Jon Young Captain's Trophy" to the past year's track captain. . . named in the Y-12er's honor.

Trophies, world honors, an Olympic gold medal, All-American teams and other laurels come easily to the modest Young. "I'm only five feet, six inches tall, and was usually the runt of any team. But you don't need long legs for short distance track. . . it's the long ones that require the big strides."

It all began back in 1969 in, of all places, Thailand. Young was stationed there with the Air Force, and despite the 100-degree weather took up track through the recreational services of the Armed Forces. "Actually you don't notice the heat there as much as you do in such places as Vietnam because the humidity is low," he said.

"I began running, running and more running. The only competitive sports I had been involved in were high school football and basketball, but when I stopped growing, I had to stop basketball. The coach kept me in football because of my speed. But in track, I found something I could excel in. It did my ego a bit of good, too."

"I began training for the Olympics, to represent the U. S. from the Air Corps. I had offers from all over to compete then (one in Thule, Greenland, which I politely declined, not wishing to race with polar bears). Actually, I have been able to travel quite a bit, thanks to track. I have been in competition in Russia (twice—one in Kiev and once in Moscow), France, Czechoslovakia, Sweden, Jamaica and other places. . . places I would have never seen had it not been for my 'thing.'"

It was 1977 that brought graduation to Young and the thrill of being named an All-American again. He captained the team that year on the Hill, and UT took the SEC championship.

"Actually, I was 26 years old when I got out of service, and had it not been for pressure from track coaches all

over the country, I probably would not have chosen to go to college. I was already married and the father of a child. That's another thing I owe track, is my college degree."

Young takes a low-key attitude toward the big gold medal he won in Munich in 1972. . . when the American team took first place in the 400-meter relay. His parents in Philadelphia, Pa., have the medal in their possession, and he says there is little likelihood that they will give it up. "There's \$500 of pure gold in that, and a buddy of mine got his stolen. Dad says he's afraid somebody will steal mine. . . and besides he's prouder of it than I am."

It was in 1972 that tragedy struck the Olympics, when Israeli athletes were murdered at the site. Young missed all of this, however, as he was downtown attending a party when it happened. He does, however, recall the gloom that fell over the entire gathering and the tight security that followed.

What does a seven-time All-American do now? "Oh, I still run every day," Young vows. "In track, you have to train at least 11 months a year, just to stay in shape. I'm 31 now and plan to compete in age-groups

(Please see page 8)

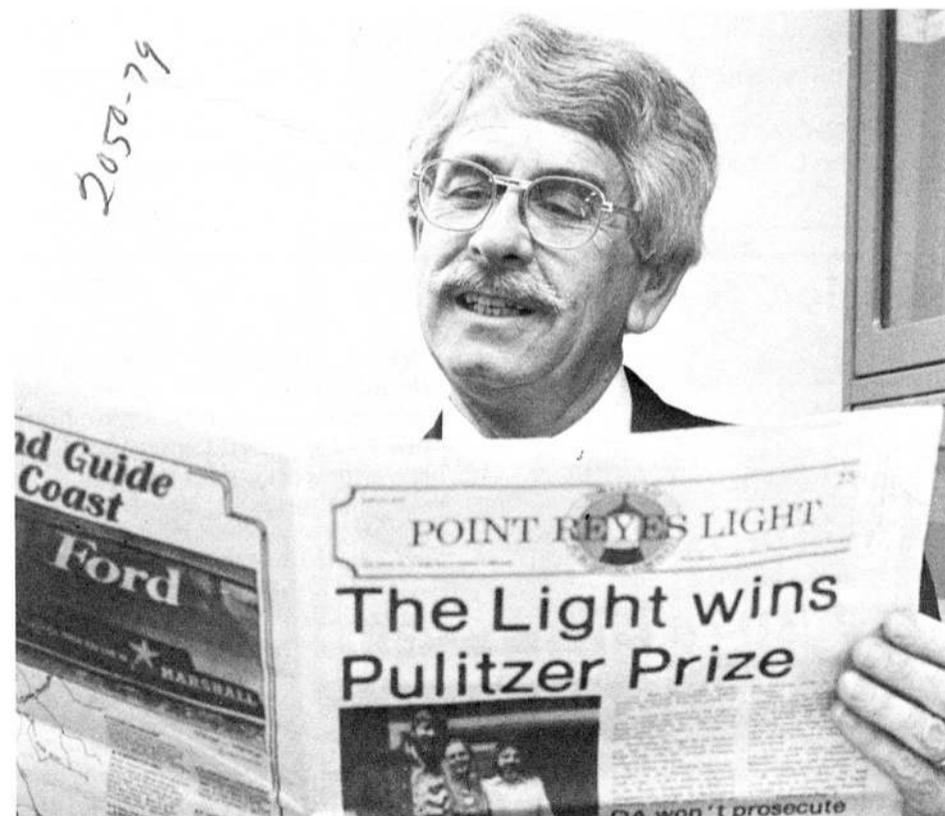
## Corporate world of Union Carbide. . .

THE AGRICULTURAL PRODUCTS GROUP of Union Carbide Corporation will build a multimillion dollar technical center near Raleigh, N. C., on 130 acres in Research Triangle Park. Plans are for the new center to be completed by 1982.

The center will unify all of the research, development and engineering functions of the corporation's products business now carried out at several different locations—including Ambler, Pa.;

South Charleston, W. Va.; and Jacksonville, Fla.

Union Carbide is a major producer of insecticides, herbicides, plant growth regulators and special agricultural chemicals. It has major production and formulating facilities in Georgia, Pennsylvania, West Virginia and Missouri. In addition, it operates agricultural service organizations in California and the Midwest and two agricultural seed companies in Wisconsin and California.



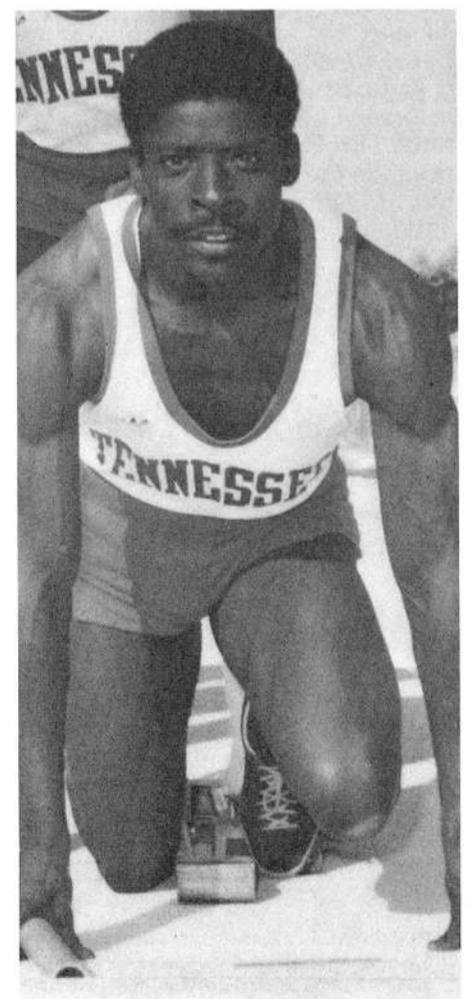
FATHER OF PULITZER WINNER—Bill Casto, ORNL Operations Division, proudly surveys his son-in-law and daughter's paper, which won the Pulitzer Prize for Public Service for its editorials and articles on the Synanon Foundation. Synanon was brought to national attention last fall after a live rattlesnake was put into the mailbox of a lawyer who had won a lawsuit against the Foundation. For four years David and Cathy Mitchell, co-owners of the *Point Reyes Light* (Calif.), have operated the weekly, store front paper, with one reporter and a circulation of 2,700.

### In this issue. . .

Glass-blowing, an ancient art, once in the hands of craftsmen strictly for housewares, is now practiced for specialty jobs for laboratory equipment and other 'one-time' design items. An interesting look at the Nuclear Division glass-blowers is found on pages 4 and 5.

#### Other features:

- Benefits story . . . . . Page 2
- Appointments . . . . . Page 3
- Question Box . . . . . Page 4
- TAT landmark . . . . . Page 7
- Dr. Lincoln . . . . . Page 7



*Benefits: your 'hidden paycheck'*

# Company premiums payments make bargain insurance package

When it comes to life and health insurance, your Benefit Plans office can make you an offer you can hardly refuse. For some types of insurance, the Nuclear Division will pay the entire cost of the policy; in other cases, it will share the cost with you. These days, bargains like that are hard to find!

Union Carbide provides life and medical insurance to its employees under a variety of plans. In this article — the third in our benefits series — we'll look at what kinds of coverage are provided, what you pay, and what the company pays.

**Basic life shared**

The Union Carbide Group Insurance Plan consists of basic group life insurance, with total and permanent disability benefits, and supplemental group life insurance.

The basic insurance plan provides life insurance in an amount at least twice your annual salary, rounded to the next highest thousand dollars. Its cost is shared by the employee and the company.

A schedule showing the amount of your monthly premium, based on your salary, can be found in the Group Life Insurance booklet mailed to all employees last year. (If you've misplaced your copy, you can obtain another from your Benefit Plans office.) The amount of the company's payments varies depending on the claims experience of Union Carbide as a group: in each of the past several years, the amount has been greater than that paid by the employees.

If you wish to take supplemental insurance, the company will provide it equal to one-half the amount of your basic insurance. Supplemental insurance is paid for entirely by the employee. Since risk increases as an employee ages, the rates for supplemental insurance vary considerably according to age: for instance, if you earn \$12,000, the monthly cost of your supplemental life insurance would be \$2.40 if you are under 40, \$6.60 if you are between 40 and 54, and \$18.60 if you are between 55 and 64.

Participation in the group life insurance plan is not automatic; you must enroll in it. This is frequently done on the first day of employment, but it can be done at any time, although you will be required to have a physical examination if you enroll more than 31 days after joining the company.

Your J. Q. Carbide report summarizes the basic and supplemental life insurance benefits you had as of December 31, 1978.

**Medical insurance**

Union Carbide provides medical insurance through three plans: Basic Hospital-Medical-Surgical, Major or Special Medical, and Dental Expense Assistance.

All Nuclear Division employees receive essentially the same medical benefits, although several different insurance companies provide medical coverage for different employee groups. The premiums paid to the different companies vary from time to time, depending on the experience of the particular group involved. In general, the rates are set at a level that will permit the insurance company to pay its claims and provide enough money to cover operating expenses.

*Third in series*

Your basic hospitalization, which is paid for entirely by the company, covers most hospital charges if you are hospitalized and provides allowances toward surgical fees and other expenses that may arise if you are injured or should require special treatment. Major or special medical insurance is designed to cover costs not covered by the basic plan, such as those associated with a prolonged illness or serious accident, or costs such as drugs and office visits.

For those employees with family coverage, the average cost to the company in 1978 for basic and major/special medical insurance was \$984 per employee. For those with single coverage, the average cost was \$312 per employee.

The Dental Assistance Plan, initiated in 1977, provides financial aid for certain dental expenses. The Nuclear Division pays the full cost of employees' dental insurance.

In 1978, the Nuclear Division's expenditures for all types of



**SIGNING UP**—Neither the group life nor the medical insurance plans offered by Union Carbide are automatic: the employee must enroll in them, which is usually done on the first day of employment. Here Margo Parks, right, of ORNL's Benefit Plans Office watches as new employee Vicki Coley completes the necessary forms.

employee insurance — life, accident and health — totaled 5.7 cents per payroll dollar, or 22 percent of the "hidden paycheck" we've been discussing (see accompanying drawing).

The subject of the next article in our benefits series, which will appear in the May 31 issue of **Nuclear Division News**, will be the Savings Plan. If you have specific questions about your benefits as they are discussed in this series, contact your Benefit Plans representative: at

ORGDP, call 4-8461; ORNL, 4-4483; Paducah, Bell 272; and Y-12, 4-1555.

## 248th dividend...

The board of directors of Union Carbide has declared the corporation's 248th consecutive dividend. The amount is 70¢ a share on outstanding capital stock, payable June 1, to stockholders of record on May 4. This is the same dividend paid March 1.

## NUCLEAR DIVISION NEWS

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NUCLEAR DIVISION  
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Oak Ridge, Tenn. 37830



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ASSOCIATION  
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**PADUCAH**  
Darlene Mazzone, Bell 208

## division death...



Mr. Fritts



Mr. Futrell

**James L. Fritts**, a chemist in ORGDP's Separations System Division, died April 28, at his 601 Kingston St., Lenoir City, home. He joined Union Carbide in 1952, and was a veteran of World War II, serving in the South Pacific.

Survivors include a sister, Gladys Wright; and a brother, Kenneth.

The funeral was held at the First Nazarene Church, with burial in the Lakeview Cemetery.

**Ray C. Futrell**, Y-12's Utilities Administration, died at his 365 Robertsville Road, Oak Ridge, home April 27. He joined Union Carbide in 1969, after working for the Tennessee Valley Authority. He also served eight years in the U. S. Army.

Survivors include his wife, Patricia Haggard Futrell; a daughter, Sonya; a brother, Glennis; and a sister, Ellen Black.

Funeral services were held at the Weatherford Mortuary, with burial in Oak Ridge Memorial Park.

## Next issue...

The next issue will be dated **May 31. The deadline is May 22.**

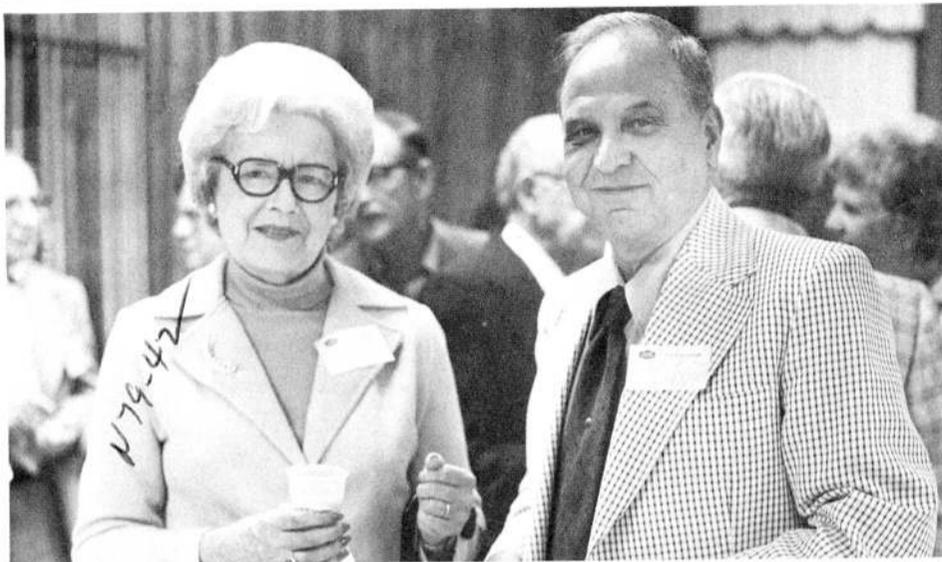
 <p>UNION CARBIDE CORPORATION NUCLEAR DIVISION P.O. BOX M, OAK RIDGE, TENNESSEE 37830</p> <p>PAY TO THE ORDER OF <u>J. Q. EMPLOYEE</u></p>	<p>5.7¢ PER PAYROLL DOLLAR</p>	
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RETIREMENT: 16.8¢

LIFE AND MEDICAL INSURANCE

**INSURANCE COSTS**—The company's costs in 1978 for life and accident insurance amounted to 5.7 cents per payroll dollar — 22 percent of your annual "hidden paycheck." In the figure above this is added to the 16.8 cents per payroll dollar spent on retirement benefits, as discussed in our April 19 article.

# 'Get acquainted' reception draws over 200 UCC retirees



**HUSBAND-WIFE MEMBERS**—Sally and Harold Cornell enjoy seeing friends at the recent "get-acquainted" meeting of the Union Carbide Retirees Association. He has retired from Y-12, Sally is still working. (It is again emphasized that spouses may join whether they are retired or not.)

More than 200 attended a reception staged by Union Carbide Retirees Association recently. Gathering at the Senior Center in Oak Ridge, the crowd enjoyed the refreshments, prepared by Marge Walker, and discussed travel, golf, assistance for the blood drives, square dancing, and, of course, the reunion picnic set for June 8.

J. P. Jones and his wife came the furthest, motoring up from Huntsville, Ala., Ernie Linville, 81, a retired welding supervisor from ORGDP, won a handmade towel rack (designed by Ken Bahler) for being the oldest retiree present.

"The picnic is what everyone wants to do—eat together," is the way officials describe the forthcoming June picnic. The crowd will gather at 9 a.m. and the meal is planned for 1 p.m. at the Clark Center Recreation

Park. Attendees may bring their own lunch, or may pre-order a box lunch from UCRA headquarters. (The \$2 box lunch consists of two pieces of chicken, potato salad, baked beans and a roll.) They must be ordered by May 25. Just mail reservations and a check to cover the number of boxes you wish to: UCRA, P.O. Box 3501, Oak Ridge, 37830.

A "share the dessert" will be featured, as everyone is asked to bring his/her favorite dessert, then share 'n swap it with friends.

There will be recreation equipment available, but picnic goers are encouraged to bring lawn chairs. Soft drinks will also be available at cost.

With membership in excess of 700, the association is now busily engaged in planning activities for the remainder of the year.

# Named to fuels, waste posts



Coops



Lomenick



Notz

Three new appointments in the Nuclear Fuels and Waste Programs at ORNL have been announced by Donald B. Trauger, associate director for nuclear and engineering technologies.

Those appointed are: John H. Coops, program manager for planning and reporting on waste management operations; Thomas F. Lomenick, program manager for low-level waste management; and Karl J. Notz, program manager for waste analysis and planning for national programs.

The appointments reflect the expanding responsibility in nuclear waste programs and, particularly, DOE's national program for low-level waste management.

Coops, currently technical assistant to Trauger, served from 1970 to 1976 as associate director of the gas-cooled reactor programs and manager for the High Temperature Gas-Cooled Reactor base technology program. He joined Union Carbide in 1951. Coops and his wife, Bettie, and three children live in Norris.

Lomenick, program manager in the Environmental Sciences Division, formerly served as manager of geology projects for the Office of Waste Isolation. He has been associated with the Nuclear Division since 1959. Lomenick and his wife, Ann, live in Concord. They have four children.

Notz, who has been program manager for the "Gel-sphere-pac process" for nuclear fuel fabrication,

has been associated with nuclear fuel and fuel recycle research and development programs at ORNL since 1965. Notz, his wife, Mary, and daughter, Julie, live in Oak Ridge. There are five older children.

A. L. "Pete" Lotts is director of the Nuclear Fuel and Waste Programs, which involve research and development, on-site waste operations development, technical support to other DOE contractor organizations, and program management for DOE. The Laboratory is involved in nearly all areas of the DOE program concerned with the treatment and isolation of radioactive wastes produced in various applications of nuclear energy.

Under DOE's national low-level waste management program, ORNL is charged with the development and evaluation of alternatives to present methods for underground burial of these wastes.

# Enjoying the leisure life. . .



**Ted Cole**  
Office Services  
Paducah  
28 years service



**Ava 'Jackie' Lyons**  
Plant Laboratory  
Y-12  
31 years service



**William M. Monroe**  
Office Services  
Paducah  
28 years service



**Helen J. Hamrick**  
Purchasing  
32 years service



**Obie Young**  
General Machine Shop  
Y-12  
30 years service



**Tandy O. Downs**  
Operations, ORGDP  
33 years service

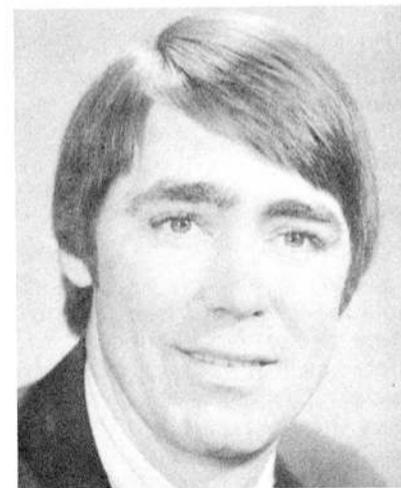
# Paducah names Veazey to new post of energy conservation manager

Richard R. Veazey has been appointed to the newly created position of Energy Conservation Program manager at the Paducah Plant, according to William C. Taylor, Plant Engineering manager.

Dwindling energy resources and increased concern for energy conservation have resulted in DOE funding for site and building energy surveys at Paducah. Commonwealth Associates completed one survey last year and additional surveys are planned for the next two years.

Veazey will be responsible for coordinating all energy management activities at the Paducah Plant, and he will also serve as plant chairman of the Energy Conservation Committee.

Veazey received a bachelor of science degree in mechanical engineering from the University of Kentucky in 1969. He joined Union Carbide in January, 1970 as an instrument engineer where he was involved in some of the first process control minicomputer installations. In addition, he has been involved with design work on the CIP/CUP, expansion of feed vaporization and



**Richard R. Veazey**

sampling facilities and process control modifications. In 1976, he was promoted to section supervisor of Instrument Engineering, where he served until the present appointment.

Veazey and his wife, Barbara, live at Route 6, Benton, with their children, Rae Ann and Andrew.

He is a member of the Instrument Society of America.

## question box. . .

If you have questions on company policy, write the Editor, **Nuclear Division News** (or telephone your question in, either to the editor, or to your plant contact). Space limitations may require some editing, but pertinent subject matter will not be omitted. Your name will not be used, and you will be given a personal answer if you so desire.

### Biology's hours?

**QUESTION:** Why do some full-time employees of the Biology Division work less than 40 hours a week? Some of them even pursue other businesses. This practice has a negative effect on the image of the entire company and is bad for morale. With all the talk of tightening belts in the Biology Division in order to save money, don't you think that all full-time employees should be on the job the full work week?

**ANSWER:** We certainly agree that all full-time employees should work at least the full work week. In many instances, Biology employees work more than 40 hours per week. Biology Division management is not aware of full-time employees within its own division who are working less than 40 hours a week, and it is not aware of employees who are improperly pursuing other businesses while being paid by the company.

There are 15 part-time employees, 140 guests, consultants, University of Tennessee students and faculty, all working different hours in this Division, as well as various staff members leaving and arriving throughout any given day in travel status. Many employees other than Biology Division personnel use the parking lot located in the Biology area. Y-12 employees working the 7:30 a.m. to 4 p.m. shift occupy a portion of the Biology parking area, and consequently there is departing traffic beginning at 4 p.m.

The company does not condone any full-time employees, Biology or elsewhere, working less than 40 hours. If, in this instance, you have knowledge of cases of abuse, we would appreciate your bringing them to the attention of the director of the Biology Division.

### Safety award values

**QUESTION:** Please relate the history of the "value" of the safety awards "earned" by UCC employees. With the inflationary spiral of recent years, the value of the award appears to be shrinking (irrespective of the safety performance of the employees).

**ANSWER:** Due to several factors, the most pertinent being improved safety performance, the cost of the safety awards distributed by the Nuclear Division over the past five years has increased 152 percent. During this period, employment has increased 27 percent; the net result being that the cost of awards earned per employee has increased 98 percent. The Consumer Price Index as reported by the U. S. Department of Labor has increased 32 percent during the same period.

The real value of the safety incentive plan is the contribution that it makes, along with other programs, to create safety awareness through the Division, thus assisting in preventing injury and suffering of employees.

### Use of vehicles

**QUESTION:** Would you please clarify policy on the use of government vehicles for transporting employees to and from portals and parking lots. Is this a special benefit available just to supervision? We asked our supervisor why this practice was allowed, and he said the people involved were disabled and this was the only way they could get to work. What is policy at ORGDP? Do we really have that many supervisors who are disabled?

**ANSWER:** The official policy on the use of government vehicles for transporting employees to and from portals and their work place is limited to those individuals who have disabilities that would inhibit their ability to get to the work place. Additionally, supervisors who have a need to report to work early or on the weekend may park their government vehicle near a portal. If you feel that this policy is being violated, please call the matter to the attention of your division superintendent or your Employee Relations Division.

### 'After-hours' parties

**QUESTION:** Why can't facilities at ORNL be available for after-hour beer parties and dances as is done at other national labs? Events such as these, it seems to me, could help bring people together and give a greater sense of institutional identification.

**ANSWER:** Although some, but not all, of the national labs may use laboratory facilities for recreation or social events, the facilities used are generally outside the areas requiring badging, such as officers' facilities at Sandia and the "Red Room" at the Los Alamos Scientific Laboratory. Even if we did have facilities similar to Sandia's and LASL's, we question that ORNL's institutional identification would be enhanced by after-hour beer parties and dances.

Many groups in the Nuclear Division do bring people together by having dances and other social functions off the premises.

### Personal enterprises

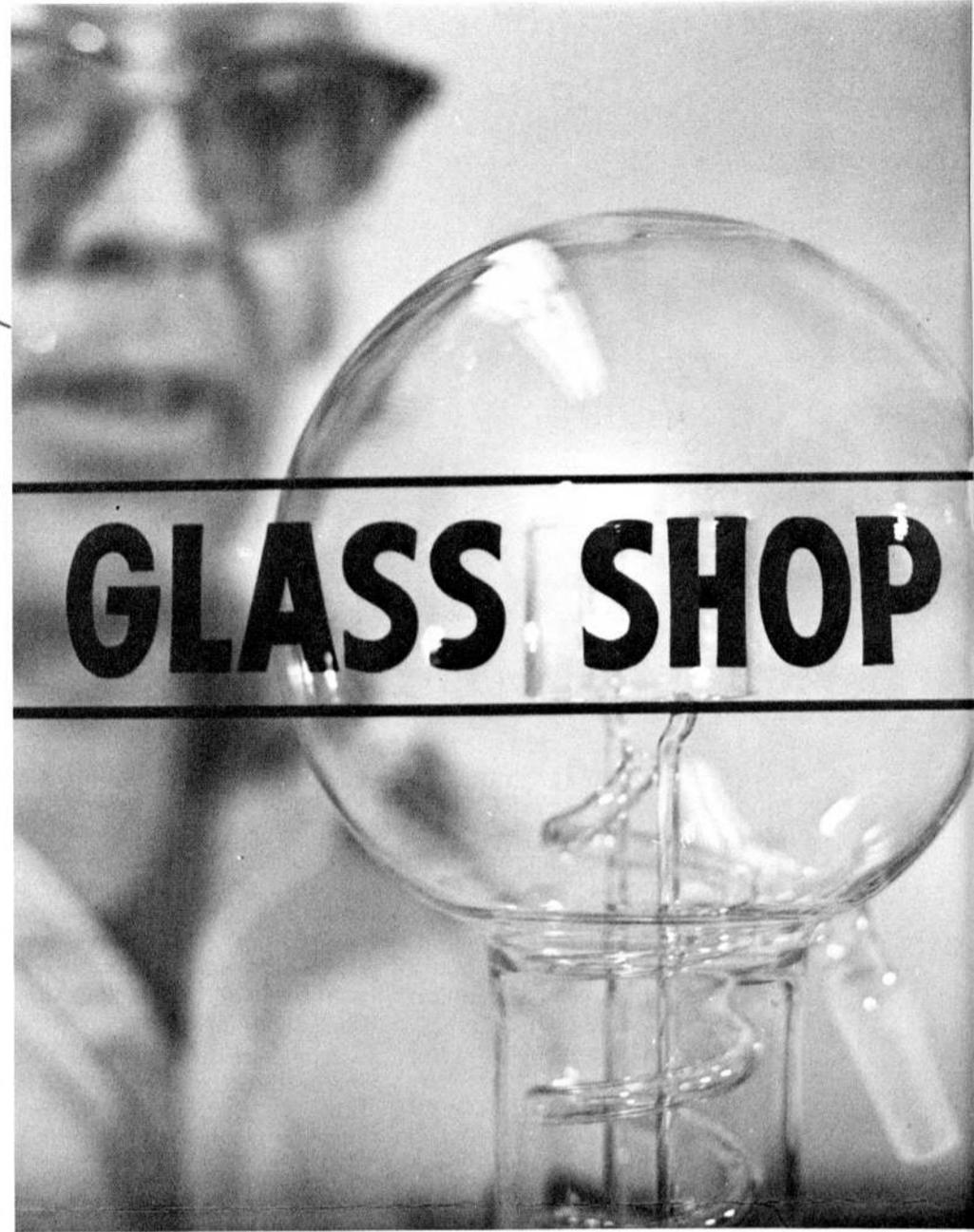
**QUESTION:** The company has always taken a dim view of male employees involved in personal enterprise on the job. Does this same rule not apply to women selling cosmetics, jewelry and kitchen utensils on the job?

**ANSWER:** Yes.

### Spoils system?

**QUESTION:** There is a rumor going around that only hourly employees' offsprings are being considered at Y-12 as machine tool cleaners. If this is true, isn't this an unfair labor practice?

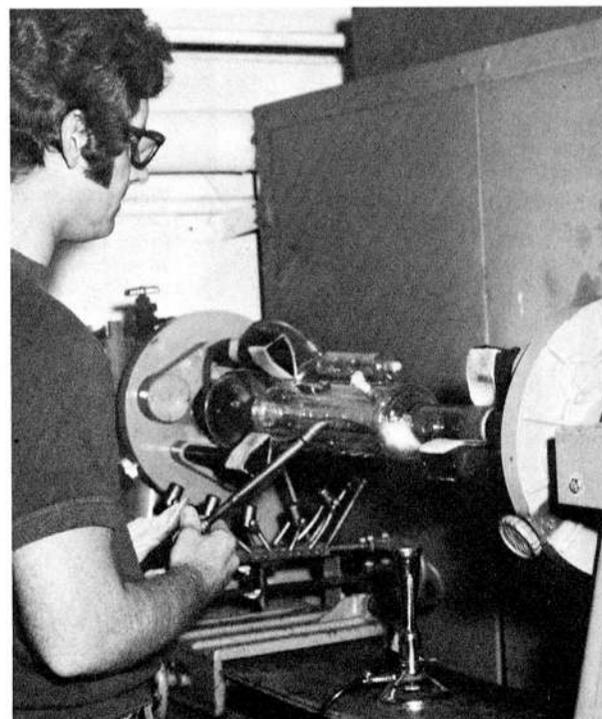
**ANSWER:** The rumor is not true. A rough count indicates that 35 machine tool cleaner vacancies were filled from July 1977 to the present time. Only five individuals going into these jobs were, to the best of our knowledge, related to hourly employees.



Paul L. Hatmaker



Max Sacharnoski

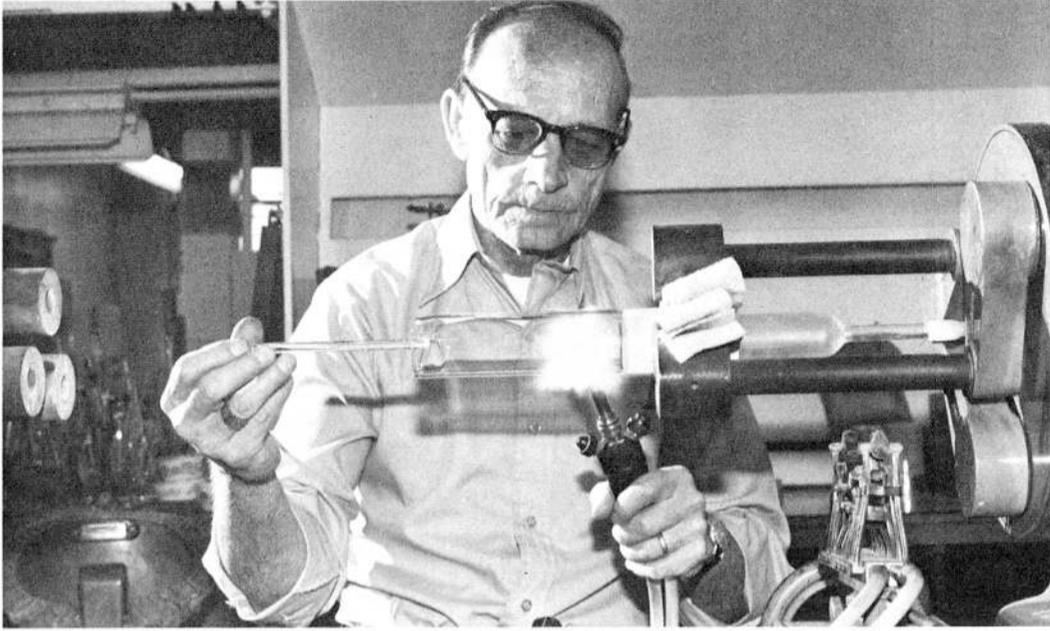


Jerry S. Morgan

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James S. Kerns

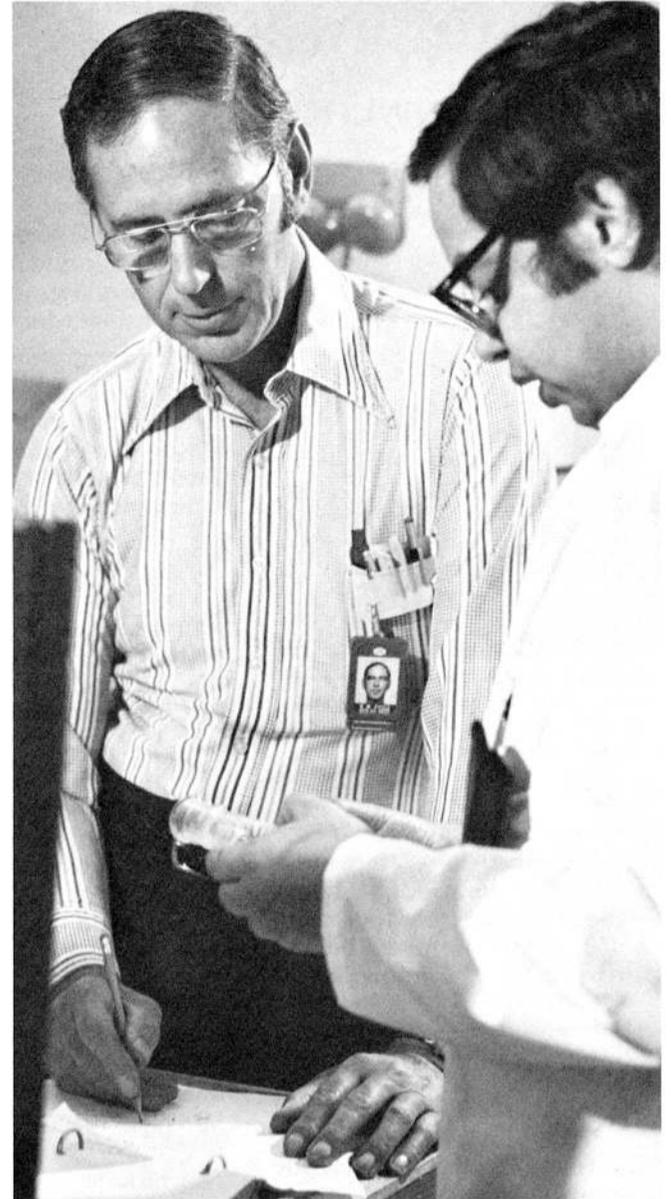
## Through the looking glass

Glassblowing, an art begun by Spanish craftsmen in 1535, has been a practiced trade in America since 1608 and a source of awe to spectators. After seeing the Jamestown, Va., craftsmen practicing their art, James Howell wrote in 1650: "But when I pry'd into the Materials and observed the Furnaces, the Transmutations, the Liquefactions, the Transubstantiations that are incident to this art, my thoughts were raised to a higher Speculation."

Not only must Carbide glassblowers have skill in scientific glassblowing techniques, but they also must have a general knowledge of physics, chemistry and manufacturing processes.

Although the first glassblowers used their trade to produce housewares, Nuclear Division craftsmen have found a 20th century application of this art. Their specialty is the production of made-to-order, scientific instruments, which are unobtainable from a warehouse, such as a vacuum pump that is one of its kind.

The surrounding photographs illustrate six of the eight Division glassblowers plying their trade. Not pictured are Elder R. Mellon and Gilbert V. McKinney.



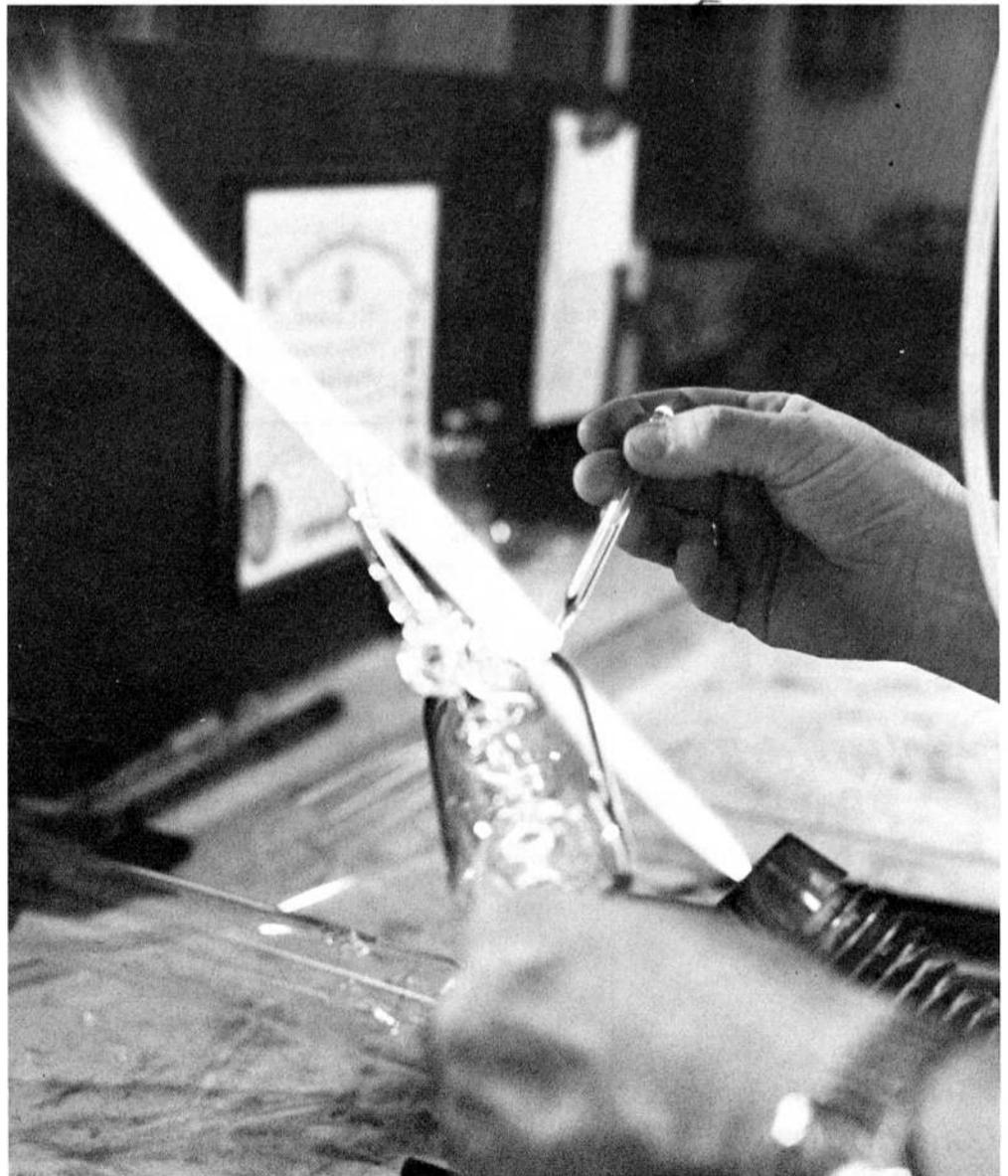
Robert W. Poole, chief glassblower, and customer

2044-79



Eloise Kirk

2041-79



Billy R. Vermillion

# recreationotes . . .

## Bowling Leagues . . .



**HIGH-SCORER**—Penny Jessen displays a trophy she won for rolling the high handicap series in the UCC Monday Night Mixed League. Jessen rolls on the 4 + 4 team.

### ORNL Ladies . . .

The Mousechasers were league champs over the Spinners in the ORNL Ladies League. Georgia Guinn won highest average for the season with a 163. Most improved bowler was Doris Hardin. She improved 11 pins.

### Engineering's 'Disco Fever'

"Disco Fever" is the theme of the Engineering Division's picnic set for Saturday, June 2, at the Clark Center Recreation Park.

Activities will begin at 11 a.m. and continue until 8 p.m. Sports enthusiasts will enjoy softball, volleyball, horseshoes, basketball, swimming, boating, golf, etc. Music lovers will hear the music of **Cat's Cradle**, and the folk guitar of Mike Garrett, plus the disco sounds of **Little Rock**. The Bear Creek cloggers, the McCarter Sisters and Jo Swidley will demonstrate clogging.

Activities for children three through twelve will begin at 1 p.m. with a Children's Art Festival. Games, prizes, rides, etc. will also be featured for the small visitors.

A picnic supper will be served at 5 p.m. Featured will be barbecued pork for the adults, and a hamburger or hot dog dinner for the children. Tickets are \$3 for adults and \$1.50 for children 12 and under, and are available throughout the division.

### Classic . . .

A roll-off was held between the Rebels and the Has Beens on April 19, at Tri-County Lanes with the Has Beens winning.

### Y-12 C . . .

The Mini-Strikes were the Y-12 C League champions for the bowling season. A second place roll-off was held between the Badgers and Killowatts with the Badgers winning.

### K-25 Tuesday . . .

The Team won the K-25 Tuesday Men's League. G. R. McFarland won high season handicap series with a 694. F. Strang won the high season handicap game with a 283.

### ORNL A . . .

The Dynamics won the ORNL A League championship. Bob DeBakker won the high season handicap series with a 704. J. R. White won the high season handicap game with a 302.

### Paducah golf . . .

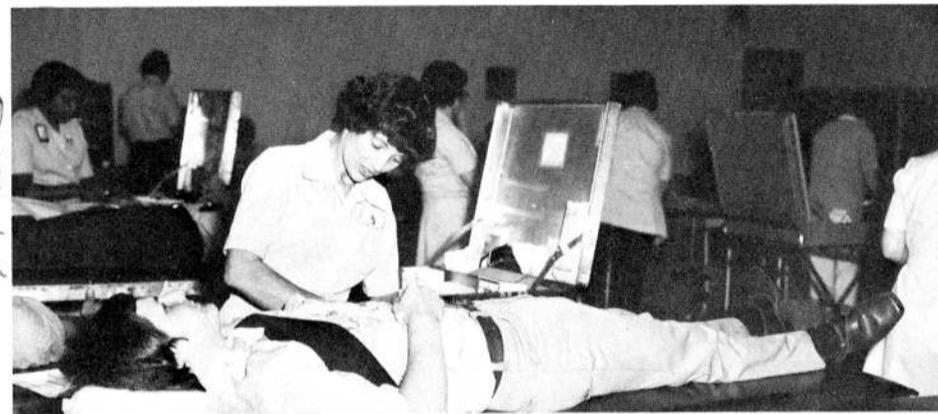
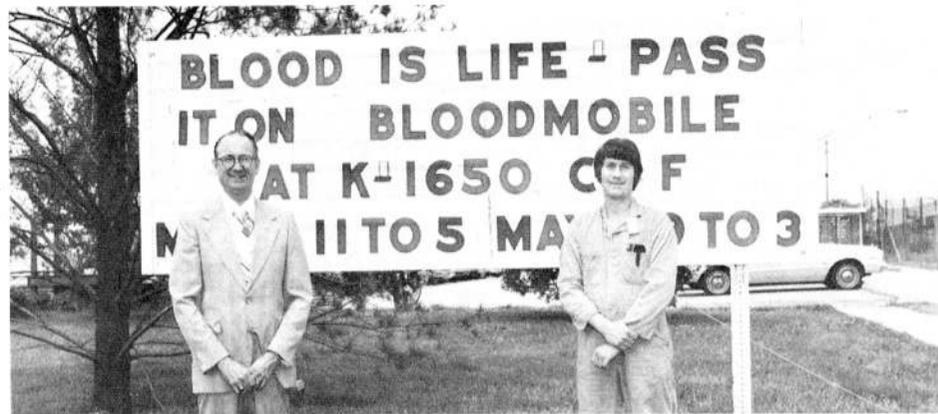
Last month's winners of Paducah's golf scrabble were Steve Seltzer, Alan Barnett, Dot Simmons and Jim Phillips. Other winners, according to place, were:

2. Elvin Kuehn, P.E. Edwards Jr., Bill McManus and Dale Miles.
3. Mike Mazzone, Mike Flood, Mike Anderson and Dale Bewley.
4. Gus Kosinski, Gene White, L. S. Fenwick and Gene Waggoner.
5. Marty Curtis, JoAnn Longton, Jim Ballard and Chan Hale.
6. Van Bryant, Andry Mason, Norma Smith and Walt Whinnery.
7. Jake Piercy, Jeff Vandeven, Tom Emerson and Jeanette Miller.
8. Bruce Kersey, Bill Higgins, Archie Miller III and Carl Walter.
9. Waldo Golliher, Bill Longton, Robert Siegfried and Betty Phillips.
10. Phil Brown, Forrest Edwards, Norm Blakely and Donna Curtis.
11. Billy Griggs, Carroll Cope, Robert Peeler and Steve Shell.

Paducah's next competition will be a two-man scrabble at Lake Barclay on May 19. Teams may choose their own partners or they will be assigned.

### Separation Systems' picnic set Saturday

The Separation Systems Division annual spring picnic will be held Saturday, May 19, at Clark Center Park. Activities for the day will start with a Division softball game at 10 a.m. followed by a championship game between Separation Systems Division and Development Maintenance. There will be many children's games and activities highlighted by a children's fishing contest. Adult entertainment for the afternoon will include a grease pole contest, sack races, tug of war and many more. A magician will start his performance at 3:15 p.m. Food will be served from 4:30 to 6 followed by games and our own Separation Systems Pickin' and Grinnin' Band. Tickets are \$3 for adults, \$1 for children, 6 through 12. Children under 6 will be admitted free. The menu consists of barbecued pork and the usual trimmings. Tickets are



**ORGDP OVER THE TOP**—ORGDP netted 579 pints of blood in its two-day drive May 7, 8—a new Oak Ridge record! Congratulations to all the donors and divisional representatives who established the new record.

## Golf tournaments . . .

### ORGDP . . .

A one-under-par score for Alvin Boatwright and D. S. Hawkins put a tie on the boards for ORGDP's first golf tournament of the year at Whittle Springs. C. D. Hawkins and T. M. Messer took handicap lows with scores of 77 and 78.

In Division Two it was Larry Studinger, 81; Sam Woodfin, 83. Jerry Toon and Roy Quarles led handicappers with 83 and 85 each.

In Division Three W. L. Arms and L. C. Wrights scores of 87 and 89 led the pack; while J. C. Jennings and K. P. Brown tied for handicap lows of 89.

### Y-12 . . .

Y-12's tournament at Cedar Hill saw L. K. White take a 73, to win top honors. John Baker followed with a 74. Ken Cook and John Towle led handicap duffers with 75 and 77.

In Division Two it was Hugh Henderson, 79; and Lanny Duke, 80. Bob Walker's 80 was low handicap score. . . and Ed Ball and J. C. Nelson tied for second honors. . . Ball with 94, Nelson with 90.

In Division Three it was Ralph Vaughn, 92; and Butch Boles, 93. Handicap lows were carded by C. C. Roberts, 96, and Jerry Brown, 98.

### Long weekend . . .

Monday, May 28, is an official holiday for Union Carbide employees, as the nation marks a memorial day for its dead.

No employee is required to be at work unless his/her presence is required by continuous operations or plant security.

available in each SSD Department or may be obtained by calling 6-0231 or 6-0017.

### ORNL . . .

ORNL's tournament at Wallace Hills went to D. Collins and W. Miller, tied with 75. Pete Sothman and Mac Wright took handicap honors with 75, and 76.

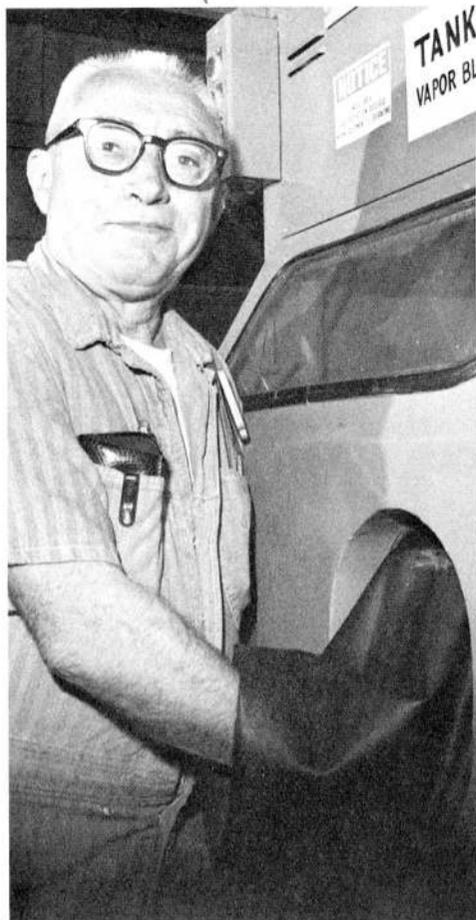
Division Two went to L. Manley and J. Johnson, 82 and 84. J. Duncan and D. Lee, handicap winners, scored 89 and 87.

Division Three went to J. Scarbrough, 88; and R. Cleveland, 92. In handicap scoring it was J. Barnes, 89 and D. Underwood, also 89.

# NEEDED

## Volunteers PGDP Swim Program

JUNE THRU AUGUST.  
IF INTERESTED, CALL  
RECREATION DEPT.  
— BELL - 208 —



Tipton, 1979

## TAT, a 12-year success story

With the graduation of its 4,000th trainee, the Training and Technology Project in Y-12, will look back over more than 11 years of success. The first project began in May, 1966. It was a two-year experimental program, funded by the Atomic Energy Commission and the U. S. Department of Labor in cooperation with the U. S. Office of Education through interagency agreements under the Manpower Training and Development Act. Unemployed, under-employed and otherwise disadvantaged persons were selected to receive experience in various skilled jobs within a modern industrial setting. The TAT project is jointly sponsored by Union Carbide and Oak Ridge Associated Universities.

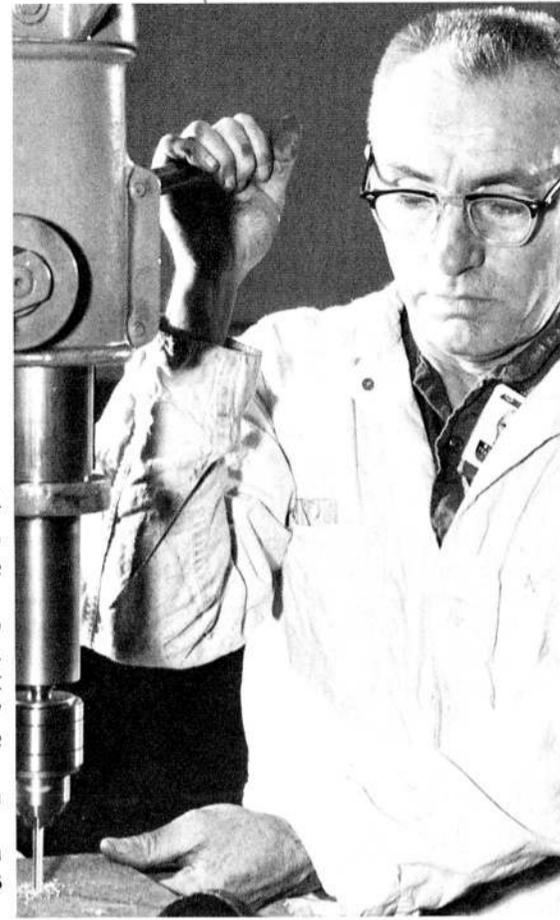
### A story will follow on TAT's 4,000th graduate.

These disadvantaged persons were ready for entry-level jobs in industry upon completion of the intensive program. Success story after success story made the TAT program a fixture around Y-12. The job placement score always ran high, and the retention rate (staying on the job after initial employment) is still exceedingly high.

One success story involved Wilbur Tipton, from Jamestown, who began the training when he was 49 years old and the father of 14 children. Tipton wanted to be an example to his children. . . showing them that it was never too late to set out with your sights high. Tipton is now employed in Y-12, going on the job immediately after finishing TAT. He now has only four children at home, the rest are married.

This story was picked up and made into a feature in the Sunday edition of the **New York Times**.

Recognition day comes with graduation, May 21, as officials reflect on the past 12 years of the project. The theme for the celebration is "Building Better Manpower Programs."



...and as 1968 recruit

## wanted. . .

### Y-12 PLANT

RIDE WANTED from Cherrybrook Subdivision, Knoxville, to East Portal, straight day. W. M. Elmore, plant phone 4-0532, home Knoxville 947-6725.

RIDE from Fountain City area, Knoxville, to East Portal, 8-4:30. Georgia Bowers, plant phone 4-0312, home phone 687-8014.

### ORGDP

JOIN CAR POOL from Rockwood or Harriman to Portal 2 or 3, straight days. Lucy Kirkham, plant phone 4-9777; home 354-3037.

CAR POOL MEMBER from West Knoxville (Kingston Hills, Walker Springs Apartments, Crestwood areas) to Portals 2, 4, 7, 8 or 9, straight day. E. J. Pullos, plant phone 6-0032 or Frances Campbell, 4-8562.

### ORNL

JOIN CAR POOL from West Vanderbilt Drive, Oak Ridge, to East Portal, straight day. David Berry, plant phone 4-6734; home phone Oak Ridge 483-6141.

CAR POOL MEMBER from Cedar Lane-Inskip Road area, Knoxville, to East Portal, 8:15-4:45. Bill Clark, plant phone 4-6695.

RIDE ONLY from Clinton Highway, Callahan Road area, Knoxville, to East Portal, 8-4:30. Tom Rice, plant phone 4-7089, home phone 947-8709.

JOIN or FORM CAR POOL from Morningside Drive-Morgan Road area, Oak Ridge to any portal, 8:15-4:45. Dick Strehlow, plant phone 4-4956, home phone 482-3240.

JOIN or FORM CAR POOL from Hillside Road area, Oak Ridge, to West Portal, straight day. John Raleigh, plant phone 4-6445, home phone 483-3161.

RIDERS from Cedar Bluff area, Knoxville, to East Portal, 8-4:30. Bob Ross, plant phone 4-7797.

RIDE from East or North Knoxville to East Portal, 8-4:30 or 8:15-4:45. Vicki Coley, plant phone 4-5933, home phone 525-6120.



### Medicine Chest

## Cancer checkup?

by T. A. Lincoln, M.D.

*(Editor's Note: Dr. Lincoln alternates his regular column with "The Medicine Chest," where he answers questions from employees concerning health in general. Questions are handled in strict confidence, as they are handled in our Question Box. Just address your question to "Medicine Chest," NUCLEAR DIVISION NEWS, Building 9704-2, Stop 21, Y-12, or call the news editor in your plant, and give him or her your question on the telephone.)*

**QUESTION:** "The American Cancer Society recommends a checkup for cancer detection, but I understand that cancers found in checkups are not much more curable than those found after symptoms occur, so why bother?"

**ANSWER:** Malignancy is a better term to use than cancer because leukemia and certain other tumors are technically not cancers since they affect different basic tissues. When a malignancy spreads to distant locations, for example from the lung to the brain, it is usually not curable. This spreading process is called metastasizing. The malignancy in the new location is called a metastasis.

Malignancies can be divided into early metastasizing, late metastasizing and non-metastasizing. Acute leukemias, some lung cancers and malignant moles are early metastasizing. They begin to shed cells almost from the beginning and therefore cure is unlikely. Late metastasizing malignancies shed more and more cells as the primary lesion gets larger.

There is a phase when the tumor is confined to one location, and if detected and treated effectively, a

cure is probable. Non-metastasizing malignancies never spread to distant locations. They destroy by local invasion and should be curable if removed before they have become too large or too destructive.

The crucial problem is how long in the normal growth cycle from beginning to the death of the host does the malignancy take and at what point in the cycle is it detectable. Every malignancy consists of a clone of malignant cells which divides repetitively. An important interval is the time it takes for the cell mass to double in number, called the doubling time. By the time a malignancy has doubled its cell mass 40 times, the malignancy is lethal. About 20 doublings are necessary to produce a tumor one millimeter in diameter. About 30 doublings will produce a tumor of one centimeter in diameter. Radiologists have great difficulty finding lung cancers in chest X-rays when the tumor is smaller than three to five millimeters and even lesions of one centimeter can be hidden.

A breast cancer has already existed through 3/4 of its life history before it becomes large enough to be

detected by careful examination. If a malignancy is a late metastasizing tumor, then there usually exists a period of time when the tumor is potentially large enough to be detected but not large enough to have shed cells which would lead to a distant spread. In some tumors, this period of time is relatively long. It has been suggested by several studies that this time period on the average is a little more than a year.

The difficulty is the likelihood of detection during a checkup. Most periodic physical examinations are relatively crude procedures. More sensitive examination procedures (for example, X-rays of the breast, called mammography) will detect smaller and earlier tumors, but there is some radiation risk to the procedure especially in young women. The cost to find one cancer is large. Screening mammography exams cost about \$80,000 for every cancer actually detected in women 40 to 49 years of age.

While periodic physical examinations are crude procedures, they are the best we have. There are no foolproof blood tests which detect cancer early. If they are too sensitive, many false positives will occur; if they are not sensitive enough, many false negatives will occur.

Until something better comes along, routine checkups are still useful. However, being alert to symptoms, and their prompt evaluation, is very important. The seven danger signals of cancer are:

- Unusual bleeding or discharge.
- A lump or thickening in the breast or elsewhere.
- A sore that does not heal.
- Change in bowel or bladder habits.
- Hoarseness or cough.
- Change in size or color of a wart or mole.
- Indigestion or difficulty in swallowing.

If a signal lasts longer than two weeks, see your doctor without delay.

# anniversaries. . .

## ORGDP 35 YEARS

Stanley B. Harris, Technical Services; Frank A. Wheeler, Security and Plant Protection; Thomas L. McCreary, Security and Plant Protection; Junior H. Burney, Security; Luther M. Lively, Maintenance; Lester A. Smith, Technical Services; Louis R. Jones, Maintenance; Everette A. McCollum, Maintenance; Lucille R. Thackston, Finance, Materials and Services; James K. Lowery, Technical Services; Sidney A. Speckter, Maintenance; James M. Young, Security; Margaret L. Poole, Operations Analysis; Katherine A. Sells, Technical Services; Frank H. Anderson, Security; and Howard W. Phillips, Finance, Materials and Services.

## 30 YEARS

Burkett I. Bailey, Safety Department.

## 25 YEARS

Phillip R. Hitson, William E. Brown, James L. Evans, Ettore Storto, Stanley E. Groothuis and Donald J. Wagner.

## 20 YEARS

Richard M. Warner, Hope Hewitt and Bobby K. Salmon.

## Y-12 PLANT 35 YEARS

Paul H. Trebilcox, Special Services; Merritt C. Wiest, Product Engineering; Winfred Ray, Utilities Administration; and Henry H. Stoner, Superintendents Division.

## 30 YEARS

Marion D. Story, Process Maintenance.

## 25 YEARS

Walter F. Stancell, Archie B. Blevins, Raymond J. Brown, David L. Jennings, Jack C. Jernigan, Earl E. Grisson, Leonard W. Nance, Thomas B. Reed, William B. Stephens, John H. Worthington, Fred L. Clark, Robert H.

Hall, Glenn W. Howdysshell, Robert E. Jones, Otey B. Cottrell, Charles Baxter, Vernon D. Cooper, Jack D. Cox, Dillard H. Jenkins, Claude Allen, James L. Billings, James W. Halsey, Lynden W. Money maker, Edgar W. Phelps Jr., Lamar R. Benker, James A. Williams, Charles E. Anderson, James D. Franklin, Charles E. Gage, George A. Grider, James P. Powers, Albert S. Ruzzkowski, Norris R. Parrott, Daniel C. Bonifacius Jr., Lewis Y. Morrow, Bobby G. Nelson, Raymond E. Plemons, James E. Blakney, Jesse T. Braden, Charles A. Crutchfield, J. B. Loy, Columbus E. Nichols, Tom T. Patterson, Elroy Plemens, Ronald E. Crabtree, Arden D. Leach, David C. Brown, Carl M. Cheek, Robert J. Hutchens, Ralph E. Liles, Earl B. Seeber, Charles R. Bowman and Harry S. Corey III.

## 20 YEARS

Barry V. Brackney.

## ORNL

## 35 YEARS

Roger G. Mansfield, Information; and Bernard G. Jenkins, Chemical Technology.

## 25 YEARS

Ada F. Misk, Grover D. O'Kelley, Edward B. Cagle, Dwight P. Madewell, Robert H. Sigler, William H. Wagner, William R. Musick and David L. Clark.

## 20 YEARS

Carolyn W. Pritchard, Francis T. Kenney and Melvin Phillips.

## PADUCAH

## 35 YEARS

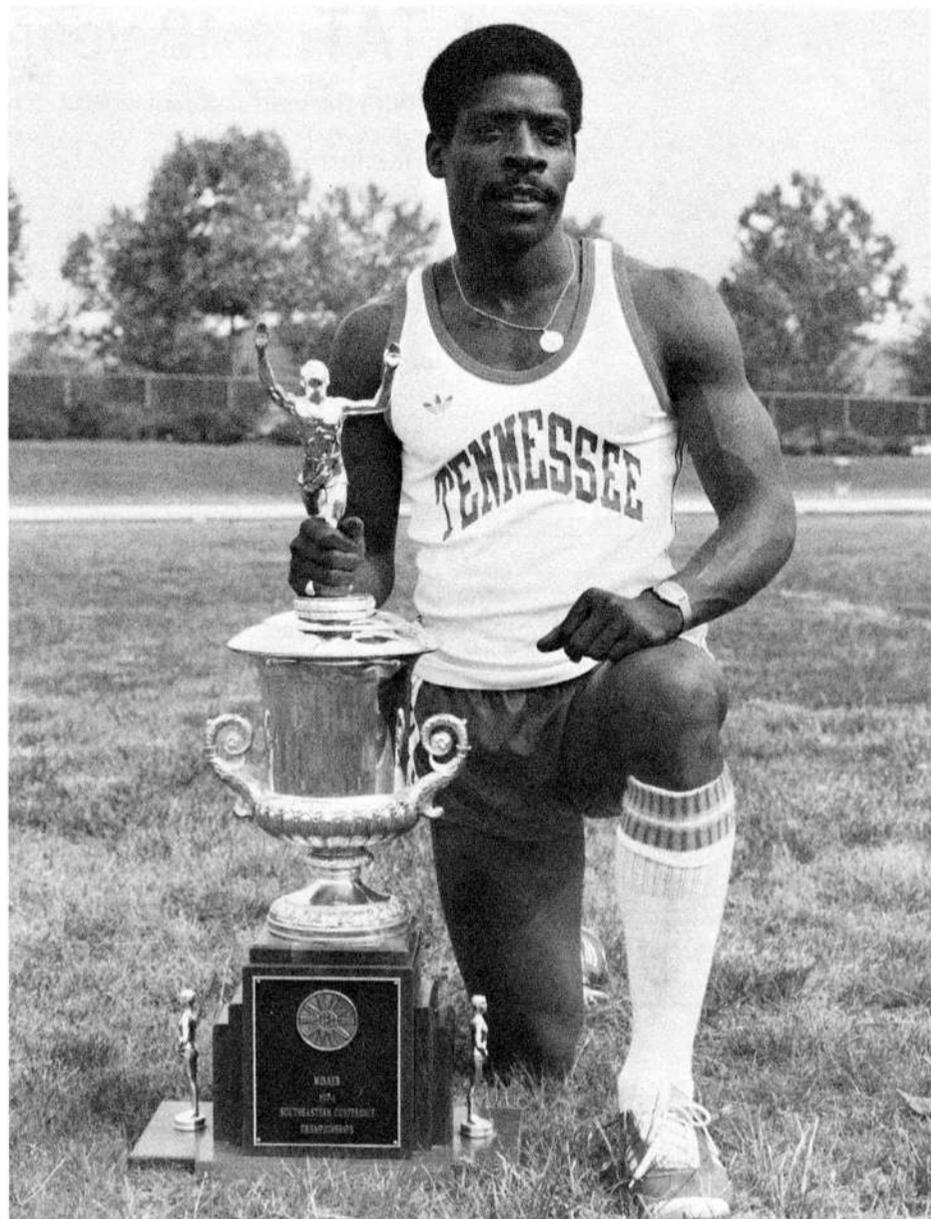
Virginia O. Wright, Finance and Materials.

## 25 YEARS

William P. Sheehan and Richard H. Rucker.

## 20 YEARS

Milton G. Otey.



## Former Olympic gold medalist

(Continued from page 1)

through the Amateur Athletic Union. I run at least two and one-half miles a day, getting up at 5:30. If time and schedule allow, I stop by the Bearden High track and run some more in the afternoon."

Young's wife, LaNorris, is a nurse at Ft. Sanders Hospital. "She's into jogging, but is more of a tennis buff," Young says. "We both believe in physical fitness and stress 'keeping in shape' to our daughter, Ginean."

The Youngs live at 2440 Chukar Road in West Knoxville.

Relay running is Young's favorite. "It gives me a sense of team balance, and I learn to rely on efforts of others as well as my own.

Track is becoming the "in" thing around the Nuclear Division, as Carbiders recently staged their first Roadrunner contest, and athletes from the Division (five of them finished) competed in the Boston Marathon in April.

"I guess having the trophy named for me is the biggest thrill of all," Young admits. "The other laurels seem trivial when I think of how UT has honored me."

How long does Young plan to keep running? "As long as I'm able. A lot of folks older than I am are still running, and staying in good shape. That's another thing track does for one. . . it keeps you young."

No pun intended, Young.

## safety scoreboard

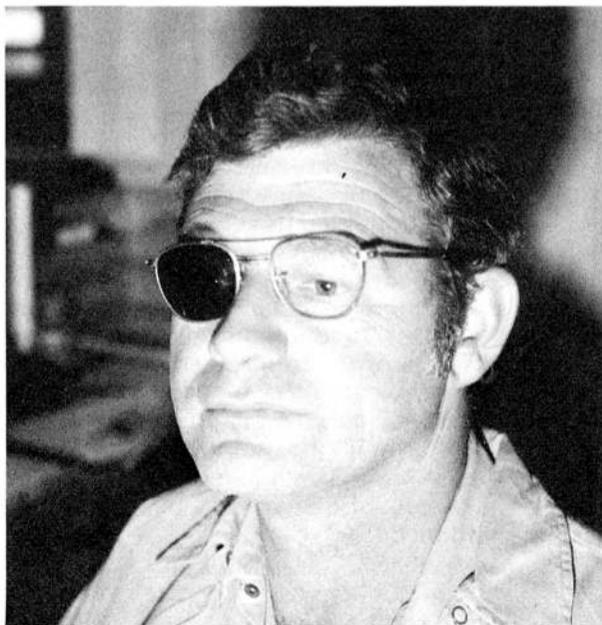
Time worked without a lost-time accident through May 10:

Y-12 Plant.....	25 Days	1,093,000 Employee-Hours
ORGDP.....	149 Days	4,803,049 Employee-Hours
ORNL.....	48 Days	1,108,048 Employee-Hours
Paducah.....	272 Days	3,339,000 Employee-Hours

## Wise Owl No. 34

### Safety glasses save Hall's eye

H.F. "Tony" Hall, ORNL Plant and Equipment Division, saved his eyesight when a rock was thrown 69 feet by a weedeater and struck the left lens of his safety glasses. Hall is the second employee this year who has prevented eye injury by wearing safety glasses during mowing and cutting operations. He is the 34th member of the Wise Owl Club.





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