

Electric vehicles aiding conservation efforts

As the Nuclear Division's drive to reduce gasoline usage continues, one approach has been to use fewer gas tanks and more batteries. In recent weeks, a variety of new "faces" have appeared on the electric vehicle scene.

At ORGDP, the coming of warm weather has resulted in the appearance of a nine-passenger, open-style electric tram running the "Rapid Taxi" route, the highly traveled two-mile loop that connects the administrative, engineering, fabrication and Barrier Plant areas. The tram, which has been used to transport visitors within the cascade area for the last several years, now carries ORGDP employees along the rapid taxi route from 10 a.m. to 2 p.m. each day, except in bad weather.

The electric taxi completes the loop about every 12 minutes, compared to 8 minutes for the route's regular, gasoline-powered van. It has a demonstrated effective range of about 40 miles and travels at between 10 and 15 miles per hour.

A fleet of five "Electra Van 600's," compact four-passenger vans that operate on 17 six-volt batteries each, is now in use at ORNL. The Electra Vans—which can carry 500 pounds of cargo instead of passengers—have a range of 30 to 35 miles per charge and can reach speeds of up to 55 miles per hour, using a four-speed manual transmission.

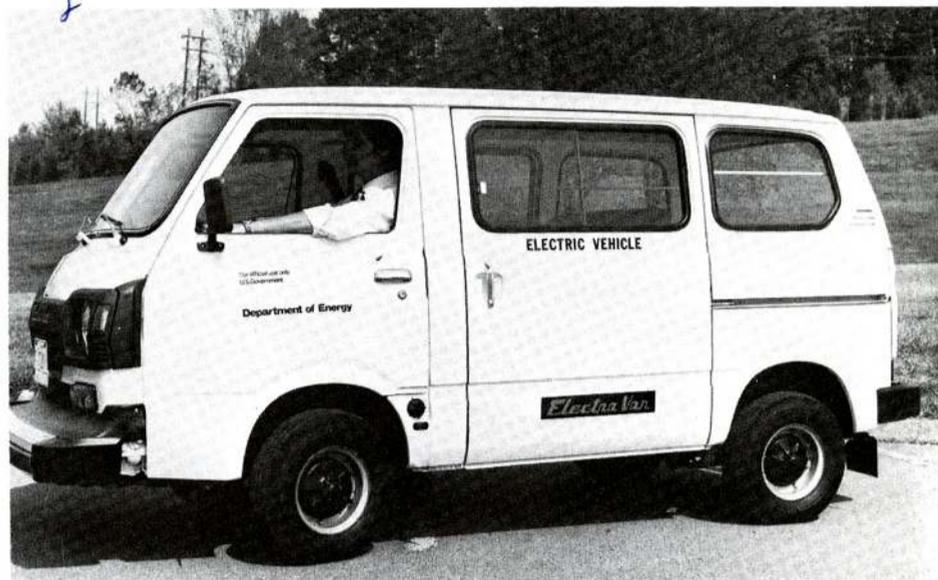
Corporate world of Union Carbide

Union Carbide Corporation has embarked on a major modernization of its Coatings Materials Division Plant at Brownsville, Tex. The \$20 million modernization program, slated for completion by mid-1981, will reduce energy consumption and improve overall plant efficiency. Specifically, the program is designed to:

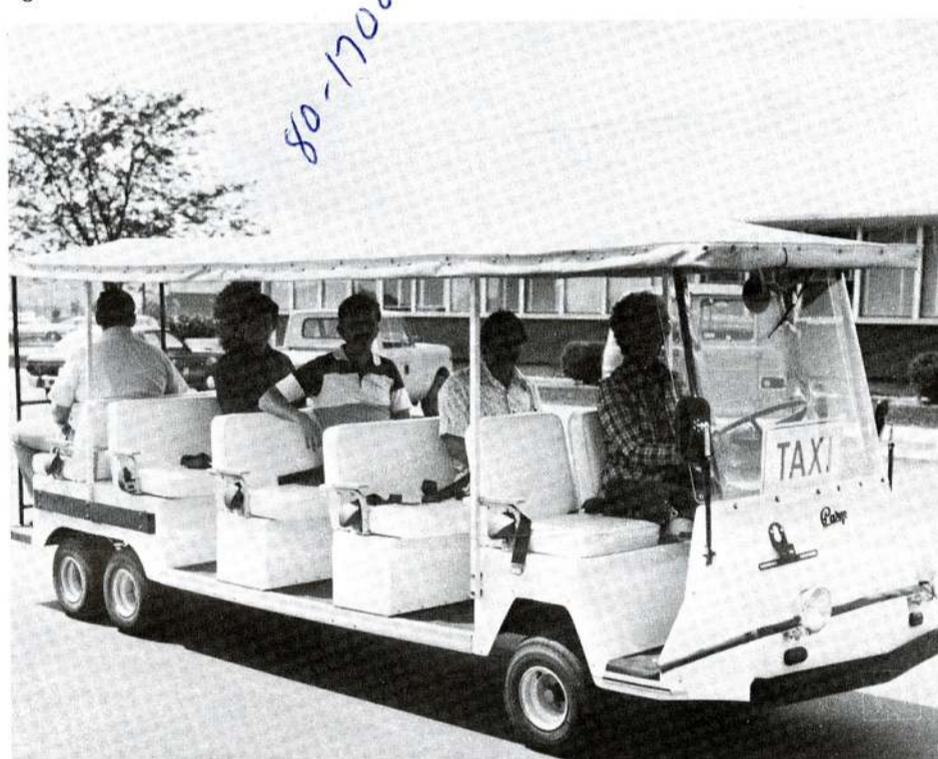
- Reduce the plant's use of purchased energy by shifting to a more efficient power source.
- Recover significant amounts of process vent gases for use as fuel.
- Increase production capacity for acetic acid, acetic anhydride, methyl ethyl ketone and other products by more than 100 million pounds per year through improvements in process efficiency.

While they're helping to save gasoline, the vans will also be undergoing a performance evaluation as part of DOE's national Electric and Hybrid Vehicle Demonstration Program.

The Nuclear Division's gasoline allocation for calendar year 1980 is 775,000 gallons—nearly 30 percent less than the allocation two years ago.



ABOVE: Jim Boatner, ORNL Plant and Equipment Division, goes for a spin in one of the five new compact electric vans being evaluated by ORNL as part of a DOE demonstration project.

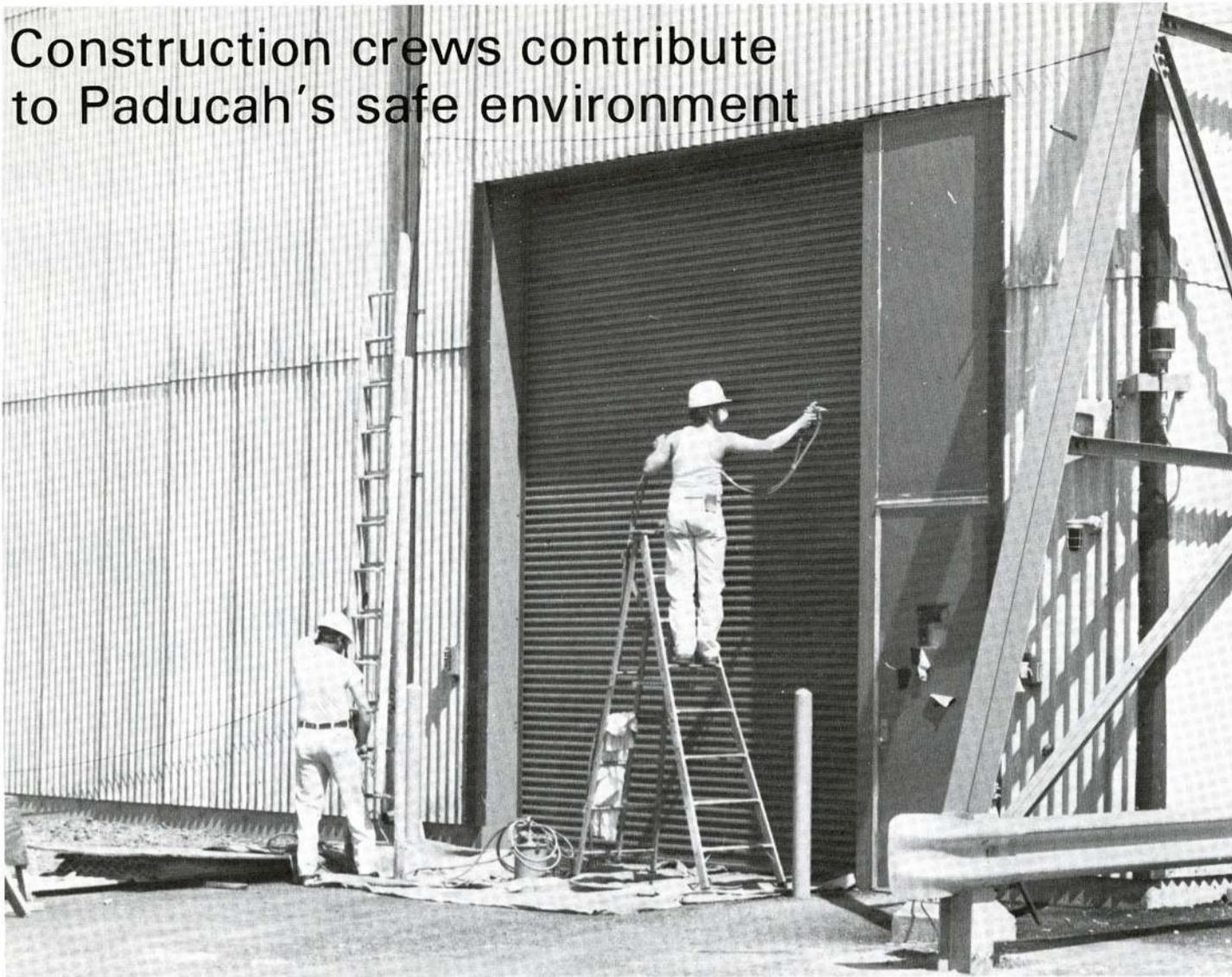


LEFT: Pearl Goss drives ORGDP's electric tram along the Rapid Taxi route. The tram runs about four hours a day in good weather.



BELOW: Shown with the five "Electra Van 600's" are, from left, Ralph Donnelly, section head in ORNL's Metals and Ceramics Division and chairman of the ORNL General Energy Conservation Committee; Roger Carlsmith, director of the ORNL Energy Conservation Program; and George Oliphant, director of ORNL's Plant and Equipment Division.

Construction crews contribute to Paducah's safe environment



SIGNIFICANT ACCOMPLISHMENT—The construction workers at the Paducah Plant have scored a significant victory in the battle against the high frequency of injury by accumulating 513,000 exposure hours without a lost workday case. About 115 construction personnel are employed by the 25 general contractors and their subcontractors working at the plant.

Construction employees at the Paducah Plant have worked more than two years without a lost workday case. This compares to a national construction industry rate of 3.94 lost workday cases in 1978. In addition, the Paducah construction subcontractors' reportable injury frequency rate of 1.92 was 84 percent below the construction industry's average of 11.84.

The construction workers have been involved in some 80 projects with a total value of \$44 million. About 115 construction personnel are employed by the 25 general contractors and their subcontractors working at the plant.

Norm Dobbs, manager of Paducah's Construction Management Department, attributes this construction safety to a number of factors. "First, the Department of Energy prescribes certain safety requirements which are more stringent than those required by the Occupational Safety and Health Administration. Second, each construction project is individually analyzed to identify its special safety hazards, and the specific safety provisions necessitated by these hazards are prescribed in each project's contract documents."

Dobbs believes that the importance placed on safety by plant personnel is

highly visible during all phases of a construction project. Beginning with the preconstruction conference, the particular safety requirements for each job are reviewed with the contractor's representatives. During the actual performance of the work, safety requirements are among the key items that are monitored by construction engineers and the plant Safety Department.

"In the final analysis, a great deal of the credit rests with the contractors themselves and the cooperative atmosphere that has evolved because of the benefits of the program for both the employees and the contractor," Dobbs said.

Patents granted

To William J. McDowell of ORNL for "Process for Removal of Mineral Particulates from Coal-Derived Liquids."

To Charles R. Kennedy of ORNL for "Graphite Having Improved Thermal Stress Resistance and Method of Preparation."

To Raphael A. Dandl, ORNL retiree, for "Electron Beam Collector for a Microwave Power Tube."

Anniversaries

Y-12 PLANT

35 YEARS

James B. Sykes, Superintendents Division; Ruth E. Andrew, Plant Laboratory; Helen M. Claffey, Development Division; and E. Otis Rackley, General Machine Shop.

30 YEARS

Jake O. Harvey, Process Maintenance; Roy L. Chrisman, Buildings, Grounds and Maintenance Shops; Martin W. Jones and Clarence E. Gaut, both in Electrical and Electronics.

25 YEARS

Tom H. Cordle, George H. Blakely, Floyd E. Clevenger and Lanford Duncan.

20 YEARS

M. Eugene O'Hara, Wesley R. Tuck, Hugh V. Evans and Charles W. Wilson III.

PADUCAH

25 YEARS

Raymond W. Davis and James T. Smallmon.

ORNL

35 YEARS

Jane R. Morrison, Metals and Ceramics; and Rex E. Leuze, Chemical Technology.

30 YEARS

Billy H. Montgomery, Engineering Technology; Herbert N. Hill, Instrumentation and Controls; and William R. Johnson, Metals and Ceramics.

25 YEARS

Leland Ratliff, Grady W. Renfro and Clarence H. Wodtke.

20 YEARS

Robert J. Robson, Harold L. Adair, Orrin W. Thomas, Ralph O. Williams Jr., Francis R. O'Donnell, Jarvis W. Paul, Roy F. Pruett and Margaret B. Emmett.

ORGDP

35 YEARS

Harry E. Thompson, Computer Sciences; Charles C. Hackworth, Maintenance; Eugene T. Ault, Operations; John W. Arendt, Uranium Resource Evaluation Project; and Jess W. Harper, Maintenance.

30 YEARS

Finis S. Patton Jr., Engineering.

25 YEARS

James L. Ramsey, William T. McCarley, Donald B. Long, James D. Griffin and Eugene E. Edwards.

20 YEARS

Jack H. Owings.

**UNION
CARBIDE**

Nuclear Division News

UNION CARBIDE CORPORATION
NUCLEAR DIVISION
Post Office Box Y
Oak Ridge, Tenn. 37830

EDITOR

James A. Young, 574-1643

ORGDP

Kathy Coleman, 574-9218

ORNL

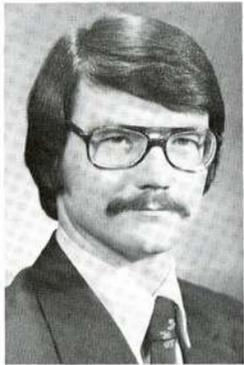
Cindy Ross Lundy, 574-4163

PADUCAH

Darlene Mazzone, Bell 208

1894-80

News About People



Herricks

Dennis M. Herricks of Paducah has been recently licensed by the state of Kentucky as a Professional Engineer. He has a bachelor's degree in electrical engineering from the University of Kentucky. A native of Frankfort, Herricks now resides in Lone Oak. He is a past chairman of the Institute of Electrical and Electronic Engineers subsection and the Joint Technical Society of Western Kentucky. He is also a board member of the city's Market House Theatre.



TECHNOLOGY TRANSFER IN REVERSE—Members of ORNL's Coal Preparation Plant Automation Program recently participated in a week-long training session on coal preparation conducted by United Coal Companies (UCC), Grundy, Va. The group also observed operations at two coal preparation plants in Big Rock, Va. From left are Sheldon Woods, UCC; Cliff Brown and Ken Carr, ORNL; Richard Wolfe, UCC vice president for research and development; Leon Klatt, Gloria Caton and David McCue, ORNL; Daman Walia, Oak Ridge Associated Universities; and Richard Anderson, Robert Moore and Norman Bradley, ORNL.

Four members of the ORNL Metals and Ceramics Division received special honors at the annual meeting and welding show of the American Welding Society, held recently in Los Angeles.

Domenic A. Canonico received the James F. Lincoln Gold Medal Award for a paper, "Significance of Reheat Cracks to the Integrity of Pressure Vessel for Light Water Reactors." The medal is awarded each year for the single-author paper published in the society's *Welding Journal* which is judged to be the most important contribution to the advancement and use of welding.



Canonico



Braski

4 168550

The McKay-Helm Award was given to David N. Braski, Stan A. David and Gene M. Goodwin for the paper, "Solidification Behavior of Austenitic Stainless Steel Filler Metals." This award is given for the best contribution to the advancement of knowledge on low alloy steel, stainless, or surface weld metals which has been published in the *Welding Journal*.



David



Goodwin

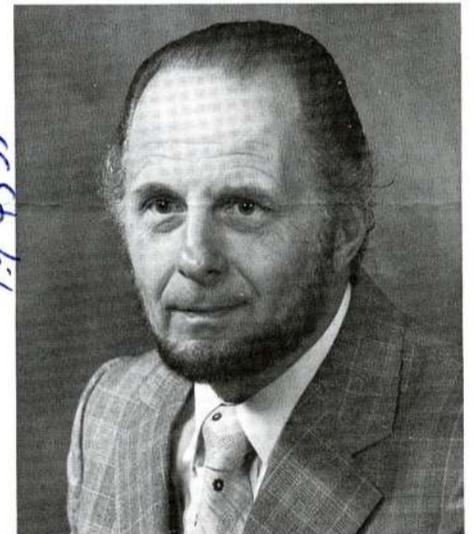
Goodwin was one of five ORNL staff members who shared the McKay-Helm Award last year.

4 155953

Mills named Y-12 classification, information control officers

John M. Mills Jr. has been named classification and information control officer for the Y-12 Plant.

A native of Miami, he joined Union Carbide in 1952 in construction liaison for the Paducah and Portsmouth Plants at ORGDP, working at Portsmouth until 1955. He was in the aircraft nuclear propulsion program at ORNL until 1957, when he transferred to Y-12's Instrument Engineering. He subsequently worked in the Gage Laboratory, Quality Control, Technical Reports, ORNL's Instrumentation and Controls Division and Y-12's Special Projects before joining the classification office staff in 1967.



John M. Mills Jr.

Marine Corps before joining Union Carbide.

He and his wife, Concetta, live on Duncan Road in the Lyons Bend area of Knox County. They have four daughters, Sheryl, Darlene, Cynthia and Rhonda.

Mills has a BS degree in electrical engineering and industrial engineering from the University of Florida and has done graduate work at Ohio University and the University of Tennessee. He served in the

19 4533

Safety Scoreboard

Time worked without a lost-time accident through May 22:

ORNL	36 Days	881,738 Employee-Hours
Y-12 Plant.....	170 Days	5,795,000 Employee-Hours
Paducah.....	364 Days	3,954,000 Employee-Hours
ORGDP	108 Days	3,388,450 Employee-Hours

New U.S. Savings Bonds to be issued in July

All U.S. Savings Bonds purchased through payroll savings will be new, Series EE Energy Savings Bonds effective July 1.

The new bonds will be designated as Energy Savings Bonds to emphasize the national effort to reduce energy consumption and increase domestic supplies. The bonds were formerly known as War Bonds and Defense Bonds, reflecting the concerns of earlier times.

The new Energy Savings Bonds will help finance federal energy expenditures during the coming years.

Changes in the bond program include:

- The new Series EE Bonds have a guaranteed life of 11 years.
- The interest rate on Series EE Bonds will be 7 rather than 6.5 percent for bonds held to maturity (11 years). Series E Bonds that have not fully matured and U.S. Savings Notes ("Freedom Shares") will also receive the 0.5 percent "energy bonus" if they are held for 11 years from the date of the first semiannual interest period that begins on or after January 1, 1980. Bonds and notes redeemed earlier will not receive the bonus.
- Series EE Bonds will be available in denominations of \$50, \$75,

\$100, \$200, \$500, \$1,000, \$5,000 and \$10,000. Purchase price will be one-half the value.

- Series EE Bonds must be held for at least 6 months after issue, compared to 2 months for E Bonds.
- An individual may purchase \$15,000 of Series EE Bonds yearly, compared to \$7500 of Series E Bonds.
- The new bonds will have the same tax-deferral advantages as Series E Bonds. For example, bond owners never pay state or local income tax on interest, and they may postpone reporting interest for federal income taxes until

bonds are redeemed or reach final maturity.

Because the \$25 bond will be discontinued, all employee purchases of \$25 bonds (purchase price, \$18.75) automatically will be changed to purchases of \$50 bonds (purchase price, \$25) beginning July 1. This is the only change that will be made automatically. Changes in the amount of payroll deduction or in bonds of other denominations will not be made unless authorized by the employee.

Contact your Benefit Plans office for more information or to make a change in your authorization.

Blacksmith hammers hot metal into shape

by Portia Guettner



ANVIL RINGS—Bob and Gene Hale's blacksmith shop may not be the center of village commerce, but the fire roars almost every evening in their backyard smithy. Blacksmiths fashion hot metal and work it over coals, as they shape it with hammers and forge it with a heavy blow.

Photos by Mike Watkins

"Under a spreading chestnut tree, the village smithy stands. The smith, a mighty man is he, with large and sinewy hands, and the muscles of his brawny arms are strong as iron bands..."

There's not a chestnut tree in sight, and Bob Hale of ORGDP isn't the blacksmith in Longfellow's poem. He's a modern-day smith, but his craft has changed little since the old days.

Standing in front of a forge behind his home on Woody Lane, south of Kingston, he looks very much the part. Sweat runs down his face as he holds up a braided poker he has hammered into shape on an anvil. He's the only blacksmith in the area, and people drop in regularly to watch him demonstrate this almost-forgotten art.

Hale, a tanned, muscular man in his 40's, is a designer in the machine tool department at ORGDP. But he likes blacksmithing. "It's my first love, and someday I hope to be hammering away full time."

Meanwhile, Hale's wife, Gene, turned on the fan that has replaced the old-time bellows, getting the coals ready for another firing. Her job in the shop is known as "striker," or blacksmith helper. When she's not working in the smithy, she serves as a secretary to the department head of ORGDP security. Since blacksmithing is often a two-person operation, she is indispensable to her

husband, who readily acknowledged he couldn't open shop without her.

"Sometimes we're out here early in the morning until late at night. I guess once you get it in your blood, you can't put it down," she said.

"She's right," her husband said. "There's such a great sense of accomplishment, you can't wait to get whatever you're working on finished." The Hales work in their shop on Saturdays and at least two nights a week, averaging almost 30 hours in all.

Mrs. Hale said her husband's interest in blacksmithing made him easy to buy presents for at Christmas. This past year he got a metal cutter. "The only hard part was fitting it into his stocking," she said.

"Morning sees some task begin; evening sees it close..."
Longfellow

Hale's interest in blacksmithing began when he served as a striker aboard the U.S.S. Dixie, a repair ship involved in the Korean War. Since then he has put his formal education in design to work in his own blacksmith shop.

"Blacksmiths have always been highly creative. They've had to be in order to design and build their own tools throughout history," Hale said. He made most of his own tools, some dating back to his Navy days.

Although most western movies portray the town blacksmith as the man who shoes horses, Hale refutes this misconception. "A farrier shoes

horses. A blacksmith is an artist, both of functional and ornamental design."

The energy crisis has had a decided effect on Hale's decision to devote full time to blacksmithing soon. He said he believed that with so many persons building fireplaces and installing wood-burning stoves, there is a rising demand for quality hand-forged hearth tools which isn't being met by current manufacturers.

"I think I have an opportunity to fulfill a gap with handcrafted accessories that people would value for their quality as well as their aesthetic value. Of course, my success will hinge on orders, and I'm not sure whether I'll try to market the hearth sets through crafts fairs or by contract with a wholesaler," he said.

Hale said that most smiths buy pre-cut, preformed shovels for their hearth sets, but he makes his from scratch, following the pattern of the famous blacksmith, 74-year-old Francis Whitaker. He has studied under Whitaker for many years and will host a workshop in November, where Whitaker will demonstrate his art.

Even though Hale has learned to make a shovel in less than 12 minutes, he said the work is still much harder on his arms than pushing pencils when he is designing tools. "Not only that, but one day I burned my finger and then hit it with the hammer. Guess it's gotten to the point where I'll hit anything that's hot."





Medicine Chest

Evaluating your own symptoms

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: "Should a localized but not very intense pain above the temple that occurs when one bends or shouts be investigated? This pain is not present when I sit or even when I exercise. Could it be a warning sign of a weakened blood vessel that could hemorrhage or is it just a minor condition? Can a medical test determine the cause of the pain?"

ANSWER: Although I really don't have enough information to provide an adequate answer to this question, I will try. This is the kind of complaint that may cause unnecessary visits to a physician.

With health care costs rising at an alarming rate, many medical economists are advising people to evaluate their own symptoms more carefully before rushing off to a doctor. This questioner is using another alternative—writing a question to a medical columnist. Other possibilities include discussing the symptoms with a friend or reading about the problem in a lay medical encyclopedia.

The principal medical complaint here appears to be a mild pain in the left temple that occurs when the person bends or shouts. The questioner does not say how long the problem has existed, whether it occurs constantly or only intermittently, whether it is worsening or improving, or if it is related to any recent injury, respiratory infection or nasal allergy.

Facts to consider

When new or puzzling symptoms occur, it is a good idea to list the following facts: When did the symptoms first appear? What course did they follow? In succeeding episodes, did they always follow the same pattern? Did they occur frequently or were there long periods of relief from the symptoms? Where was the pain? Was it always in the same area, or did it move to some other region? Were there changes in symptom development, or did they remain the same? Did the symptoms worsen or improve? Were they better sometimes and worse at others?

Was the pain sudden in onset, and did it gradually go away or suddenly disappear? Was there any associated

disturbance in neurological function, such as paralysis or weakness of any facial or other muscle groups? Was there any impairment of consciousness? Was the pain severe enough to require taking aspirin?

Weighing the evidence

Answers to these questions do not provide an adequate history. They do illustrate, however, a thoughtful process. The evidence is weighed as best the patient can. Frequently, this process will relieve anxiety and give the patient a basis on which to measure changes.

Many strange symptoms occur that cannot be adequately explained. If the symptoms are not severe, if they do not involve any major impairment of the function of a part of the body, if they are not progressive or persistent and if they appear to be disappearing, it is usually safe to wait for a while before visiting a physician. Any abnormal bleeding, even if intermittent, however, should be discussed promptly with a physician. A painless lump or enlargement of an organ in the abdomen should be investigated.

If symptoms persist

Unfortunately, blood vessels do not warn us when they are going to hemorrhage. If you do not have high blood pressure, it is unlikely that your symptoms indicate any vulnerability to cerebral hemorrhage.

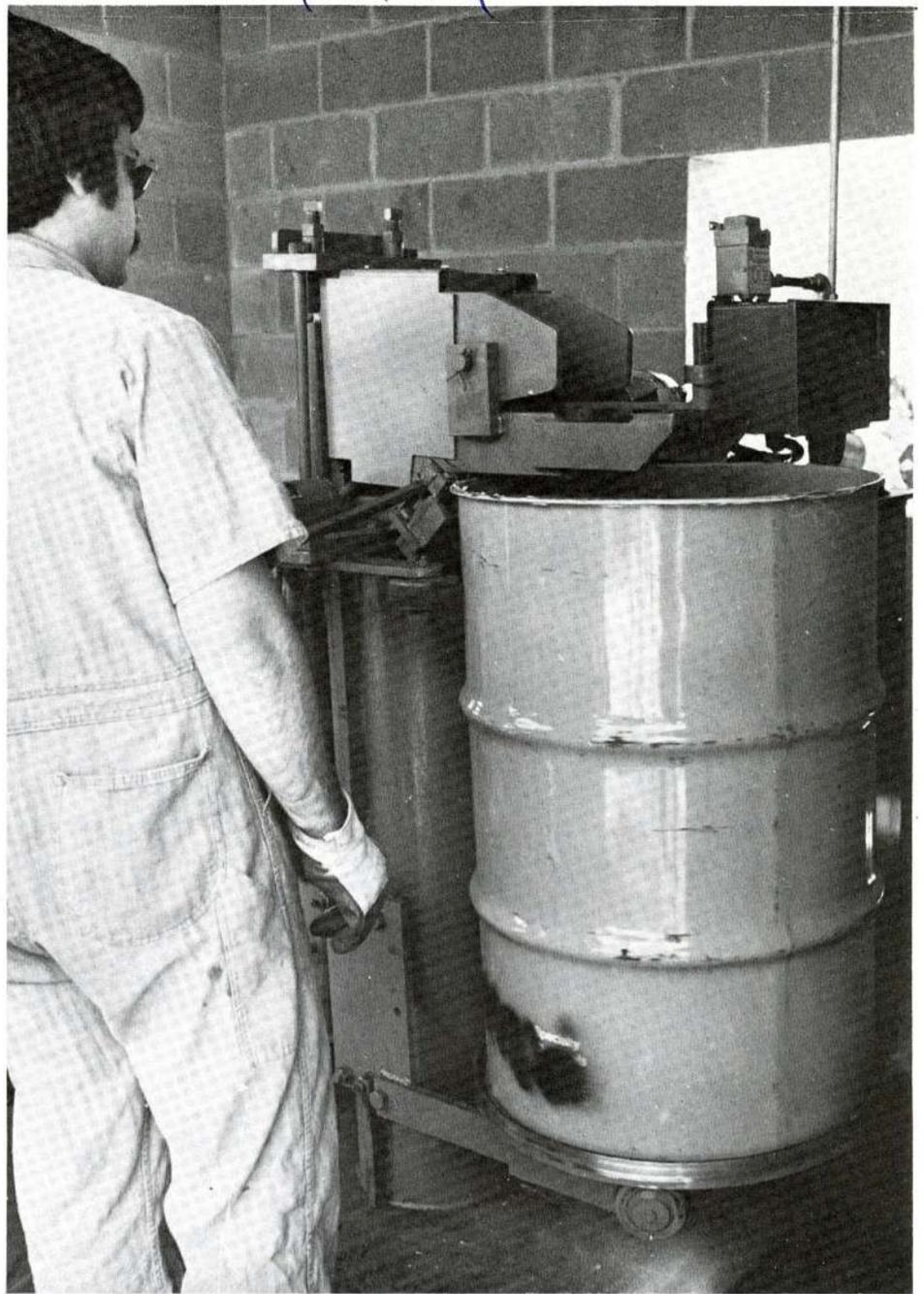
If your symptoms persist, see your physician. In the meantime, give Mother Nature a chance. In spite of the many bad things she can do, she is often remarkably kind.

Swimming set. . .

Special swimming classes will be scheduled this summer to accommodate shift workers, according to Curt Webster, certified Red Cross instructor. He will teach beginning swimming and advanced beginning, July 12 and subsequent Saturdays through the summer.

The classes are set for 10 a.m. at the Oak Ridge Municipal Swimming Pool. The only charge will be pool admission.

Additional information may be obtained from Webster, extension 4-5263.

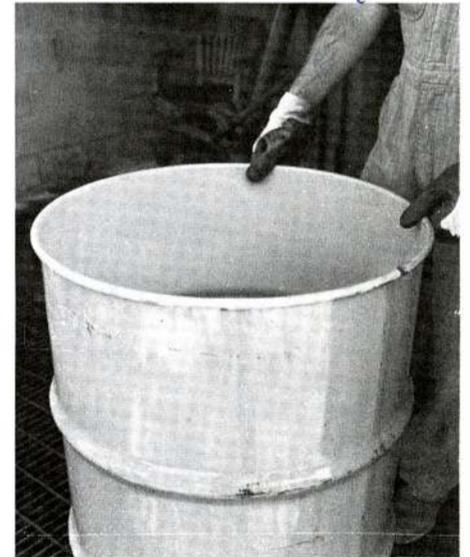


NEW DEHEADING MACHINE—Donald L. Roberts, Y-12 Salvage, demonstrates the new drum deheading machine. The instrument eliminates the sharp edges and burrs on the cut drum heads.

Drum 'deheader' in Y-12 Plant reduces injuries

The Maintenance Division at Y-12 has installed a new drum "deheading" machine in the Salvage Yard. One person can now dehead 80 or more 55-gallon drums a day, easily and safely. Drums previously deheaded in the plant have sometimes resulted in hand injuries when employees sustained cuts from the sharp edges left by the old machine.

The new apparatus eliminates the edges and burrs by rolling the cut drum edges a full 360 degrees.



Cashier Offices: hours

New hours have been announced for the cashier office at ORNL. Effective June 1, the office, located in Building 4500 North, will be open from 9 a.m. - noon to cash personal checks and sell stamps at the service window between J and K corridors. The travel office window in Room K-235 will be open to provide travel advances and trip settlements from 9 a.m. - 3 p.m.

Hours at the other installations have not changed. They are:

Y-12—check cashing, 10:30 a.m. - 1:30 p.m.; travel services, 8:00 a.m. - 1:30 p.m. and 2:30 - 4:30 p.m.

ORGDP—check cashing and travel services, 9 a.m. - 2 p.m.

Paducah—check cashing and travel services, 8 a.m. - 4 p.m.

Recreation eligibility...

Various athletic and social activities are sponsored by the Division's Recreation Department. Individual and team sports, club activities, parties, dances and family get-togethers are but a few of the programs provided.

Retirees give plans for June 13 picnic

Union Carbide Retirees Association has made plans for the semi-annual reunion, Friday, June 13. Activities get underway at 10 a.m. at the Clark Center Recreation Park.

All retirees are invited...all you need to bring is your own sandwich, and a dessert to share. Tea, coffee, paper plates, etc. will be furnished. There will be all sorts of entertainment, including music, darts, a hole-in-one contest, etc.

Paducah retirees are planning to attend the outing, with Mildred Lockhart, telephone 898-2440, chairing a committee to coordinate those plans.

UCRA emphasizes that you do not have to be a member to attend the June picnic.

This broad program is planned by a three-plant advisory committee and administered by the Recreation Coordinator, Building 9711-5, Y-12, extension 4-1598.

Several inquiries have been received concerning eligibility requirements for participation in the program, including all sports and use of the Clark Center Recreation Park.

The following are eligible to participate in these programs:

- Nuclear Division employees and their spouses.
- All retirees and their spouses.
- Spouses of deceased employees.

Information on programs planned for employees may be obtained from the Recreation Department.

Patents granted

To Curtis F. Metz III and Bradley S. Weil, both of ORNL, for "Apparatus for Shearing Spent Nuclear Fuel Assemblies."

To Manfred K. Kopp of ORNL for "Position-Sensitive Proportional Counter with Low-Resistance Metal-Wire Anode."



WEDNESDAY NIGHT CHAMPS—The Amps took the league crown in the K-25 Wednesday Night Bowling set. In the front row, from left, are M. J. Gibson, Jim Fletcher, Louie Finley and Bill Ladd. In the back row are Lyle Hensley, John Patton, Leon Hurd, C. W. Castle and Charles Heth. Not pictured is Jim Winger.

Carbide softball standings:

The five-league, 64-team Softball League is well under way at the Clark Center Recreation Park, playing when weather allows. Several teams are still undefeated thus far.

League standings follow:

Atomic League - North Division		
Name	Won	Lost
Bruins	3	0
Snakes	3	0
Gashouse Gang	3	1
Shifters	3	1
Dynamics	3	1
B. T. Express	2	2
Electric Bananas	2	2
Rangers	2	2
Blue Demons	1	2
War Hogs	1	2
ESD Pits	1	3
Critical Mess	0	4
A-Shifters	0	4

Carbon League - Central Division		
Name	Won	Lost
Luda Loptas	6	0
Master Batters	5	1
More Knockers	4	1
Skinks	4	1
Wild Turkeys	3	2
Uptowners	3	2
The Gauss House Gang	3	2
P.O.I.'s	3	2
Fed II	3	2
Pits	2	3
Pop-Ups	2	3
Fuzz Balls	2	4
Our Gang	1	4
Fed I	1	5
Zilogs	0	5
The Argonauts	0	5

Carbon League - West Division		
Name	Won	Lost
Sparks	5	0
Stonefingers	4	1
Seven + Three	4	1
Odds and Ends	3	2
The Loose Balls	3	2
Moneychangers	3	2
Gordon's Golden Flakes	3	2
Bombers	3	2
Moxies	2	3
Bits and Pieces	2	3
Whirlybirds	2	3
Super-Subs	2	3
"Tape" Worms	2	3
Rat House Gang	1	4
Rivets	1	4
Three Up Three Down	0	5

Atomic League - South Division		
Name	Won	Lost
Mama's Best	5	0
Mutagents	4	0
Thunderdogs	4	1
Prime Time Players	4	1
Magnum Force	3	1
Arties Army	2	2
Short Circuits	2	2
Infra-Red Sox	2	3
Bat-O-Matics	0	4
Ole Ruff & Ready Gang	0	4
The Starters	0	4
Innovators	0	4

Carbon League - East Division		
Name	Won	Lost
Sluggers	4	0
QA&I	4	0
K-Traitors	4	0
Ringers	3	1
Bearskins	3	1
Fes-Kids	3	1
Superstar's	3	1
Knockers	2	2
Crippled Turkeys	2	2
Pirates	2	2
Streakers	2	2
Bear Creek All Stars	0	4
Wizards	0	4
Tom's Turkeys	0	4
Killer Bees	0	4
Coneheads	0	4

Skeet League...

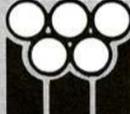
The winners for April in the Carbide Skeet League were Bill Davy Sr., ORGDP, with a 49.262; Roy Hicks, ORNL, second with a 49.200; and John Basler, ORNL, third with a 49.040.

Winter Pistol...

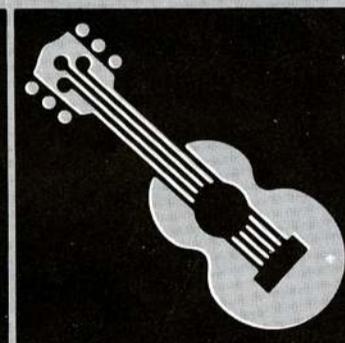
Winners of the Winter Pistol League for 1980 in the scratch division were E. T. Johnson Jr. - 278.000; J.E. Brewer - 272.846; and V. F. Raaen - 257.250. The handicap winners were A. D. McNutt - 288.297; C. Berkley - 286.819; and R. A. Ward - 286.474. Gift certificates will be awarded to the winners.

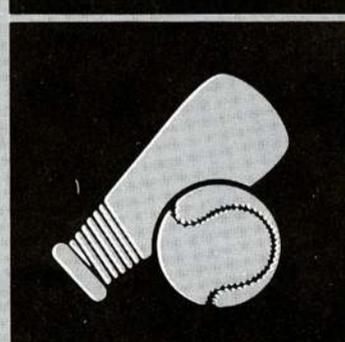
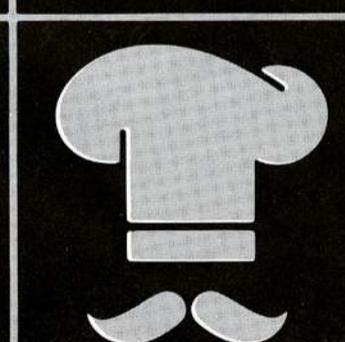
Summer Pistol...

The first match of the All-Carbide .22 caliber pistol league will be held on Tuesday, June 3, at the Oak Ridge Sportsmen's Association. Subsequent matches are scheduled for each Tuesday until August 26. Any Carbide employee is eligible to shoot in these matches. Details can be obtained from R. C. Gwaltney, league director, 4-0726.



ENGINEERING PICNIC 80

Saturday, June 7th
Activities Begin at 9:00 am
Adults \$3 • Children \$1.50

See Your Department Secretary
For Ticket Information

OLYMPIX

Savings Plan-Personal Investment Account

Note: Fixed Income Fund unit values reflect interest additions to achieve the guaranteed effective annual interest rate of 9.1% for 1980. Union Carbide stock values are the average cost of stock purchased during the month. Equity Investment Fund unit values represent the month-end market value of securities held by the Fund. The price of each unit is determined by dividing the total value of the securities by the number of units in the Fund.

	Fixed Income Fund	UCC Stock	Equity Investment Fund
December 76	13.0553	59.2723	8.8166
December 77	14.2017	40.9096	8.0427
January 80	17.0206	44.1851	10.4237
February 80	17.1501	43.2605	10.4763
March 80	17.2734	38.5455	9.6320
April 80	17.4019	38.6371	10.0675

Question Box

Minority hiring at Y-12; Insurance payments

A part of the answer to a recent Question Box question was inadvertently omitted. The entire question and answer are printed below:

QUESTION: Some corporations have been investigated for not hiring enough blacks. Investigations also show failure to recognize them for promotions. Is it true that blacks have asked for the same type of investigation to be made at Y-12?

ANSWER: To our knowledge, there has been no request for an investigation of minority promotions at the Y-12 Plant.

Goals to hire and to promote minorities and women are set every year in the four Nuclear Division installations. Hiring goals are based on the availability of minorities and women in the work force to perform the kinds of jobs for which there are openings in the Nuclear Division. Promotion goals are set in proportion to the representation of minorities and women in each job group in each division. For example, if 8 percent of all Math/Statistics Technicians are minorities and 40 percent are women, minorities and women should earn respectively 8 percent and 40 percent of the promotions during the year.

Progress in meeting hiring and promotion goals for minorities and women is carefully monitored by the Affirmative Action Organization at each installation. While the minority population in the Oak Ridge-Knoxville area is 7.4 percent, 12.6 percent of all the new hires at the Y-12 Plant (about which this question is directed) were minorities. In addition, both minorities and women earned at least as high a percentage of the total promotions as the percentage of their representation at the Y-12 Plant.

Dental insurance

QUESTION: Recently my two children had their annual dental examinations. Metropolitan claim

response allowed different refunds for identical treatment. When this was called to their attention, the mistake was corrected. My question is, does anyone for the Company audit the insurance carrier for error frequency?

ANSWER: The internal auditors of Union Carbide do conduct audits of Metropolitan's claim operations. Such audits, however, can be nothing more than random samples of the nearly 150,000 claims that are processed each year. When an occasional error does occur, the best audit is to do what you did: examine carefully the explanation of the payment when you receive it.

Investment appreciation

QUESTION: I am purchasing Fixed Income Units as part of my Personal Savings Plan. In 1975, I believe, the income was guaranteed to be 7.75%; in 1980 it is 9.1%. Is the money I invested or are the units that I purchased in 1975 appreciating at 9.1% or at the rate of 7.75% prevailing in 1975?

ANSWER: One of the major advantages of the Fixed Income Fund is that the announced interest rate is paid on all holdings in the Fund. Therefore, the units you purchased in 1975, as well as the interest you have earned on them since then, are being credited in 1980 with interest at an effective annual rate of 9.1%.

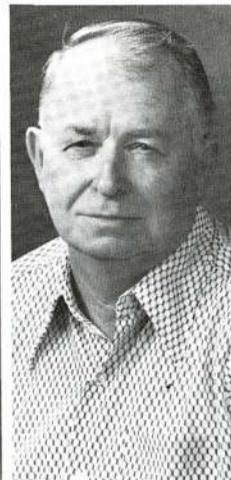
QUESTION: For several years now, surviving spouses of Union Carbide employees have not had an increase in their checks. Is any increase planned?

ANSWER: Union Carbide has been responsive in the past to the needs of its retirees and surviving spouses. Increases in the pensions of retirees and surviving spouses were authorized by the Board of Directors in 1969, 1973, 1975, and 1977. We cannot predict at this time whether additional increases will be made and, if so, when.

RECENT RETIREMENTS



Harold B. Smith
Maintenance
Y-12
29 years service



Alvin L. Austin
Maintenance
Y-12
23 years service



Ernest E. Pierce
Operations
ORNL
36 years service



Charles R. Schmitt
Development
Y-12
34 years service



William E. Childress
Operations
ORNL
36 years service



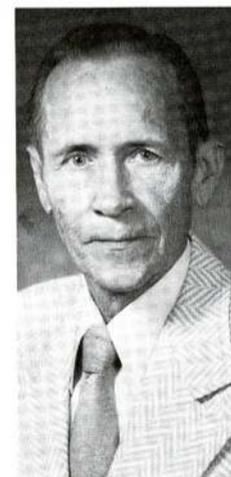
Everett D. Parker
Can Fabrication
Y-12
18 years service



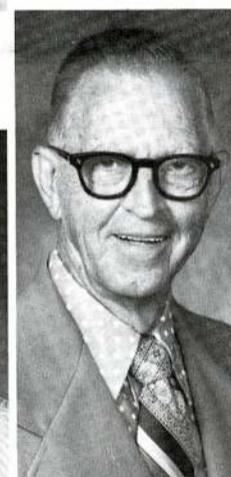
Rex H. Walls
Plant and Equipment
ORNL
26 years service



Reford C. Hauther
Electrical
Y-12
23 years service



Ned J. Kiker Sr.
Engineering
ORNL
30 years service



Jessie L. Golden
Operations
ORNL
12 years service



Condon R. Clough
Laboratory Protection
ORNL
20 years service



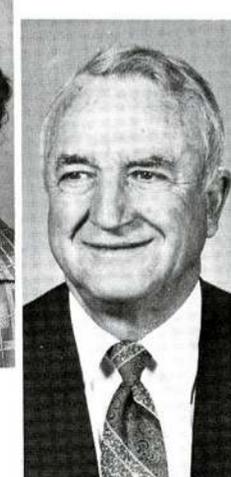
Oden N. Copenhagen
H-1 Foundry
Y-12
27 years service



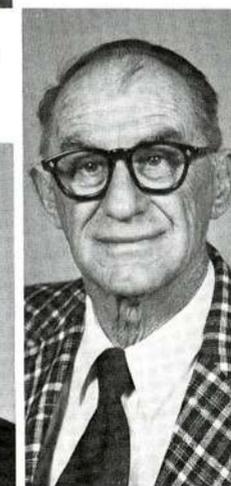
James E. Vineyard
Maintenance
ORGDP
35 years service



Ada E. Anderson
Maintenance
ORGDP
35 years service

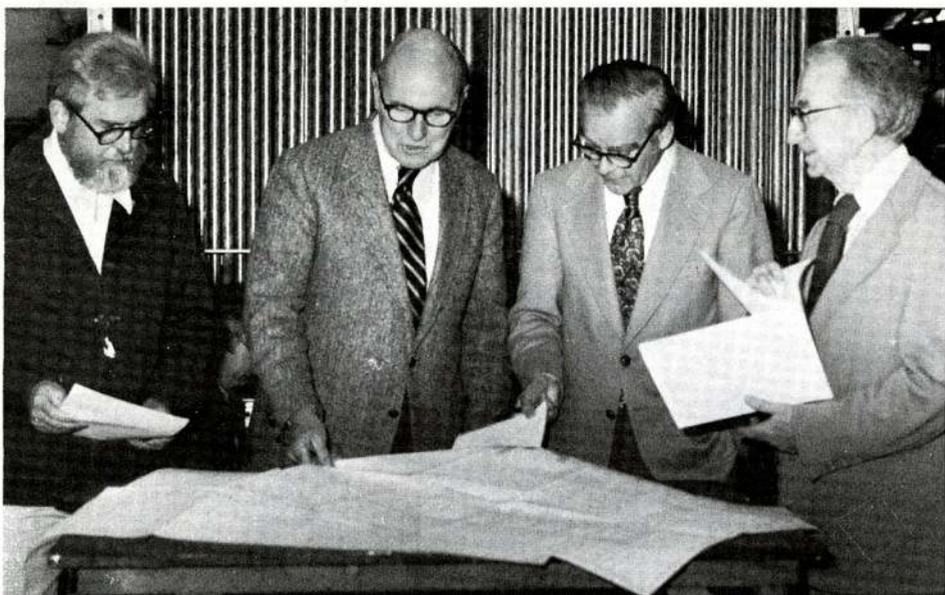


Terry H. Robbins
Operations
ORGDP
35 years service



Joseph R. Collins
Maintenance
ORGDP
35 years service

2306-80



LEADERS OF THE TEST LOOP TEAM include, from left, Sam S. Croft, Charles W. Collins, James R. McGuffey and Robert M. Farnham.

Division test loop team recertified by ASME

Some 100 Nuclear Division staff responsible for designing and fabricating nuclear components for ORNL test loops again have passed a quality assurance evaluation conducted by the American Society for Mechanical Engineers (ASME).

The team, from Nuclear Division Quality Assurance and Inspection and ORNL Plant and Equipment, Engineering and Finance and Materials, has been certified by the society for the past six years.

To meet the ASME Nuclear Code for pressure-containing equipment, each manufacturer must update design and shop practices to reflect the latest philosophies and requirements. Every three years ASME survey teams determine compliance with the standards.

The ORNL program was checked for design, procurement, construction and inspection practices, and the team is now

recertified to construct ASME Code vessels, heat exchangers and piping systems.

The test loops not only must comply with nationally accepted criteria for conventional nuclear operations but also must meet the more stringent requirements of operating under every conceivable faulted condition.

Team leaders include Charles W. (Charlie) Collins and W. Randy Clark, Engineering; Sam S. Croft, Finance and Materials; G. Frank Waddell, W. Mel Collins and Kenneth K. Klindt, Quality Assurance and Inspection; and Robert M. (Bob) Farnham and William A. (Bill) Blevins, Plant and Equipment. James R. (Jim) McGuffey, Quality Assurance and Inspection, has been overall coordinator for ORNL's quality assurance program for ASME Code construction. ORNL was the first national laboratory to be so certified.

Lowe promoted at ORGDP



Susan H. Lowe

Susan H. Lowe has been appointed manager of the Budget and Accounting Services Department in ORGDP's Finance, Materials and Services Division. She will be responsible for managing Timekeeping, Property Accounting, Cashier, Travel, the Company Store, and Budget and Cost Analyses.

Originally from Mt. Pleasant, Tenn., Lowe joined Union Carbide in 1972 as an auditor in the Auditing Division. She has worked as a financial officer and the Travel supervisor. Lowe received a BS in accounting and an MBA from the University of Tennessee. She is also a Certified Public Accountant.

Lowe and her husband, Raymond, live in Knoxville.

Save Energy/Share The Ride

ORNL

RIDER for VAN POOL from West Knoxville to West and East Portals, 8-4:30. Dean Treadway, plant phone 4-6580; home phone 584-4879.

CAR POOL MEMBER from Michigan Avenue, Oak Ridge, to East Portal, 7:45-4:15. Eric Hirst, plant phone 4-6304, home phone 482-1289; or Ken Corum, plant phone 4-5226, home phone 482-5501.

CAR POOL MEMBERS or JOIN CAR POOL from Cedar Bluff area, West Knoxville, to any portal, 8-4:30. Malinda Hutchinson, plant phone 6-2100; home phone 693-7358.

CAR POOL MEMBER or RIDER from West Knoxville (Walker Springs Road/Cedar Bluff/Middlebrook Pike) to East Portal, 8:15-4:45. E. L. Fair, plant phone 4-5723; home phone 693-3211.

RIDERS for BUS POOL from Middlebrook Pike area of Cedar Bluff, West Knoxville (including stops at Middlebrook Pike United Methodist and Mars Hill Baptist churches and other areas of Cedar Bluff), to all portals, 8-4:30. Ray or Vic Claiborne, 693-1168.

VAN POOL MEMBERS from Cedar Bluff, Lovell Road and Campbell Station Road areas of West Knox to West or East Portal, 8-4:30. John Barnes, plant phone 4-6087; home phone 693-8608.

VAN POOL RIDERS from Westown area (Rocky Hills) to any portal, 8-4:30 shift. W. L. Pattison, plant phone 4-6888, home phone Knoxville 691-0781.

RIDERS FOR VAN POOL from West Knoxville to East, West or South Portal, 8-4:30. Mike Caldwell, plant phone 4-4885, home phone 691-4194.

Y-12

JOIN or FORM CAR or VAN POOL from Sutherland Avenue area, West

Knoxville, to Central or West Portal, 8-4:30. Betsy Scott, plant phone 4-3467; home phone 588-5618.

RIDE from Eagle Bend Road, Clinton, to East Portal, 8-4:30. Delilah Lambdin, home phone Clinton 457-9141.

RIDE from East Village area, Oak Ridge, to North Portal, 8-4:30. Plant phone 4-0377.

RIDE from Maryville to West Portal, 8-4:30 shift. Jerry Hall, plant phone 4-2471, home phone Maryville 977-0991.

PADUCAH

JOIN CAR POOL from Longview Drive area in Lone Oak, swing shift. Sue, Bell 376 or PAX 788.

ORGDP

CAR POOL RIDERS wanted from downtown Oak Ridge to Portals 4, 7 and 9. 8-4:30 shift. Rusty Parise, plant phone 4-9002, home phone Oak Ridge 482-4666.

RIDE or CAR POOL from Claxton, B Shift. Anna Casell, plant phone 4-2991, home phone Claxton 945-1382.

CAR POOL MEMBERS from North Knoxville areas (Inskip, Norwood, etc.) to all portals, straight day. Jim McManus, plant phone 6-2466, home phone Knoxville 687-8460.

BUS RIDERS from Kingston, Harriman and Midtown, straight day, to Portals 1, 2, 4, 5, 7, 8 and 9. R. K. Hull, plant phone 6-0204, home phone Harriman 882-5618.

RIDE or JOIN CAR POOL from South Knoxville (Sarvis Drive) to Portal 2, straight day. Carolyn Pearson, plant phone 4-8604, home phone Knoxville 573-8204.

2391-08

UNION CARBIDE	UNION CARBIDE CORPORATION NUCLEAR DIVISION P.O. BOX Y, OAK RIDGE, TENNESSEE 37830	BULK RATE U.S. Postage PAID Union Carbide Corporation
		ADDRESS CORRECTION REQUESTED