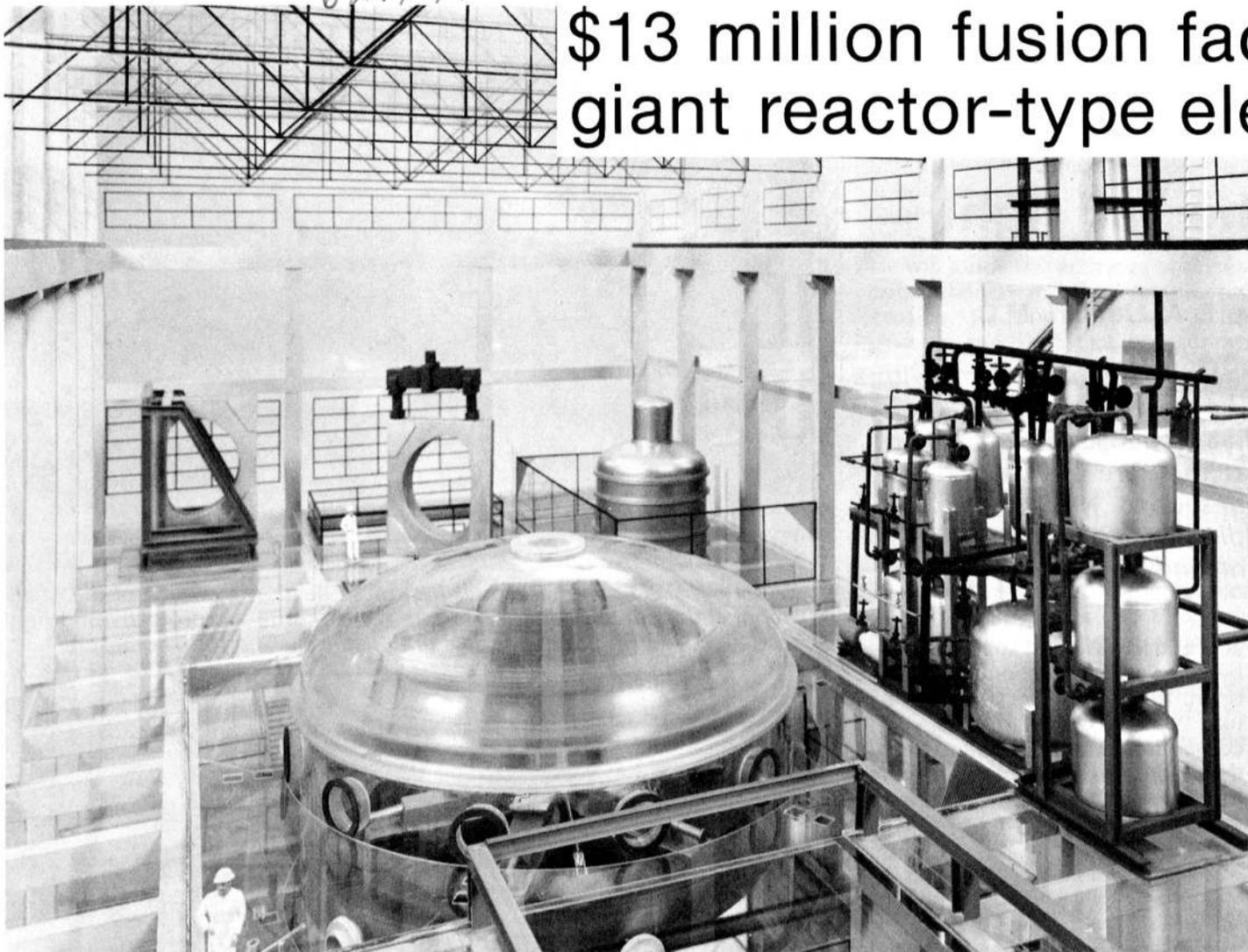


6277-78

# \$13 million fusion facility will test giant reactor-type electromagnets



## Coil test facility scheduled for 1981

Construction of a \$13 million facility for testing and demonstrating the operation of huge electromagnets—prototypes of magnets that energy researchers expect will be used in future fusion power reactors—has begun at ORNL.

The Large Coil Test Facility, scheduled for completion in 1981, will be used by researchers in the Fusion Energy Division to test and evaluate six 40-ton electromagnetic coils—three to be furnished by U.S. manufacturers and one each by Japan, Switzerland and EURATOM, the European Atomic Energy Commission, under the terms of a recently signed International Energy Agency agreement.

Fusion researchers plan to use electromagnets in "tokamak"-type (donut-shaped) fusion reactors to hold the fuel—an extremely hot hydrogen gas called plasma, which consists of charged particles—away from the inside wall of the reactor so it can be heated further to the nearly 100 million degrees required for power production. (Should the fuel come in contact with the wall it would be cooled, making fusion impossible.)

Because they must be quite large and powerful, the electromagnets in fusion reactors will be made of materials that are "superconducting." Superconducting materials can

**MAGNET FACILITY MODEL**—This scale model of the planned Large Coil Test Facility, now under construction by ORNL's Fusion Energy Division, shows its major features. At center is the 40-foot-high vacuum tank, in which the magnets will be mounted for testing, with its removable cover in place. Behind the tank, a magnet coil is being moved from its storage rack. The cylinders and piping at right are part of a system for storing and circulating the liquid helium used to cool the huge electromagnets.

## NUCLEAR DIVISION NEWS

a newspaper for employees of the nuclear division • union carbide corporation



Vol. 9/No. 19 September 14, 1978

2644-78 (Please see page 8)

### Postal strike?

## Alternative plans set by Payroll

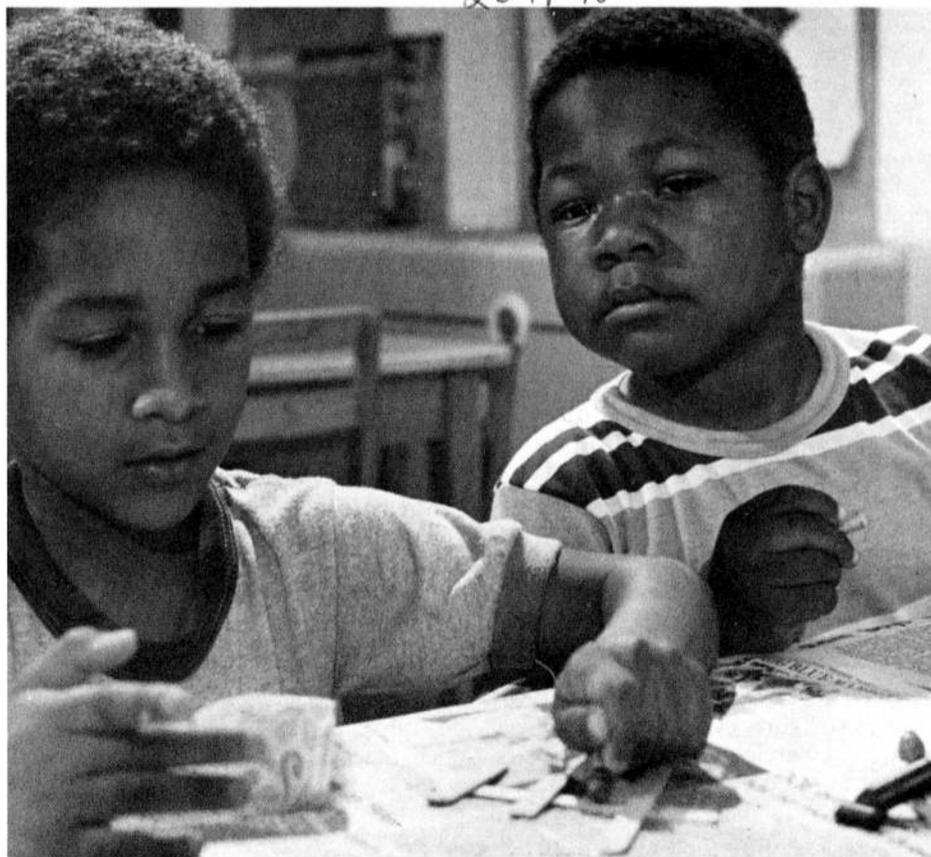
As **Nuclear Division News** was going to press, there were some uncertainties with respect to a possible postal strike. Provisions have been taken to make sure that all Nuclear Division payrolls are handled in a timely manner.

Gary Riser, manager of the General Accounting Division, said it is widely felt that if a postal strike occurs, the general Oak Ridge/Knoxville area will not be affected. However, he added, "The Nuclear Division has taken certain precautions should this geographic area be affected."

Hourly/weekly payroll checks normally mailed to the employees' home or bank, will be sorted by department in badge number sequence. Checks for these workers

will be given to the installation (ORGDP, Y-12, ORNL, PGDP) Timekeeping Departments for distribution. A courier service will be arranged for PGDP hourly and weekly checks.

Riser said the monthly payroll program will be treated in a similar manner. However, those employees whose checks are deposited by Electronic Funds Transfer, will notice little difference. Their deposits will continue to be made in the normal manner since handling of this information is done by private courier service between Nuclear Division Payroll and participating banks. Checks stubs will be sorted by department and badge and given to the installation Timekeeping Departments for distribution.



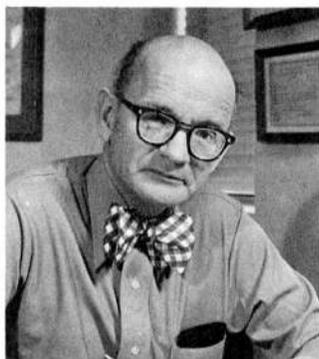
**THE UNITED WAY**—Interested young men enjoy life at the Scarborough Day Care Center as their mothers go to work. The Center serves as a home for many pre-school youngsters whose parents must work. Organized in 1950, the facility depends on the United Way for most of its money. The children are provided a hot lunch and two snacks each day. The United Way campaign is in full swing at the four Nuclear Division plants. Community agencies in the Paducah and Oak Ridge areas depend, to a great extent, on individual contributions to the United Way. Remember, Thanks to You, It's Working!

### In this issue. . .

Dr. Lincoln tackles the "fat" problem in this issue, declaring all-out war on the calories. "Remember, you don't get fat in a hurry; you're not going to get thin in a hurry," he says.

Other features:

- Question Box.....page 3
- Y-12 names new lieutenants.....page 3
- Broders named QA manager for engineering.....page 5
- Paducah promotions.....page 5
- ORGDP, ORNL, Y-12 promotions.....page 7



## The 'fat' fight

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.)

Ah, to be able to eat unlimited quantities of delicious food and not have to worry about getting fat! If someone could unlock that secret, this country would experience a fantastic improvement in its aggregate health. Morale for millions would skyrocket; work productivity would improve; and the food industry would boom. Unfortunately, the present state of affairs is quite the opposite.

Approximately 30 percent of men and 39 percent of women between the ages of 30 and 70 are 20 percent or more above their ideal weights. A substantial number are 10 to 19 percent overweight. These people are obviously concerned since they spend an estimated \$10 billion per year primarily for over-the-counter products, books and special weight reduction programs. Ninety percent of the market is composed of women, but masculine participation is increasing rapidly.

*"...embarrassed so they don't look at prices."*

To the entrepreneur, this weight reduction business has some interesting attributes. Few people are successful so the market never gets saturated. Most people worry so they are always ready to try something new. They are embarrassed so they don't look at prices of products too carefully. The one major problem is that it can be hazardous. The recent rash of sudden deaths associated with liquid protein diets is a good example. Amphetamine sales in the form of various appetite suppressants, mainly by prescription, account for about \$26 million per year but are declining because of more stringent regulations.

Why do people overeat? Nobody knows for sure even though a great deal has been learned in recent years. Ten to twenty years ago, it was believed that special hunger and satiety (feeling of satisfaction or fullness) centers existed in the brain. If they could be identified, then modified surgically or controlled with drugs, the problem could be solved. Such specific centers have not been found. It appears that there is a general excitatory neural system which is not restricted to feeding and participates in many behaviors.

A person generally stops eating when satisfied or full. It now appears that this sensation is the result of

active suppression of appetite caused by an altered biochemistry in the brain. This mechanism takes longer to turn on in some people. As a consequence, they frantically stuff their stomachs trying to turn off their hunger. When the satisfaction mechanism is finally turned on, they have eaten a great excess of food which still has to be absorbed. It is an oversimplification of an exceedingly complex phenomenon, but in many people their hunger mechanism is too hard to turn off, and their satisfaction mechanism is too hard to turn on.

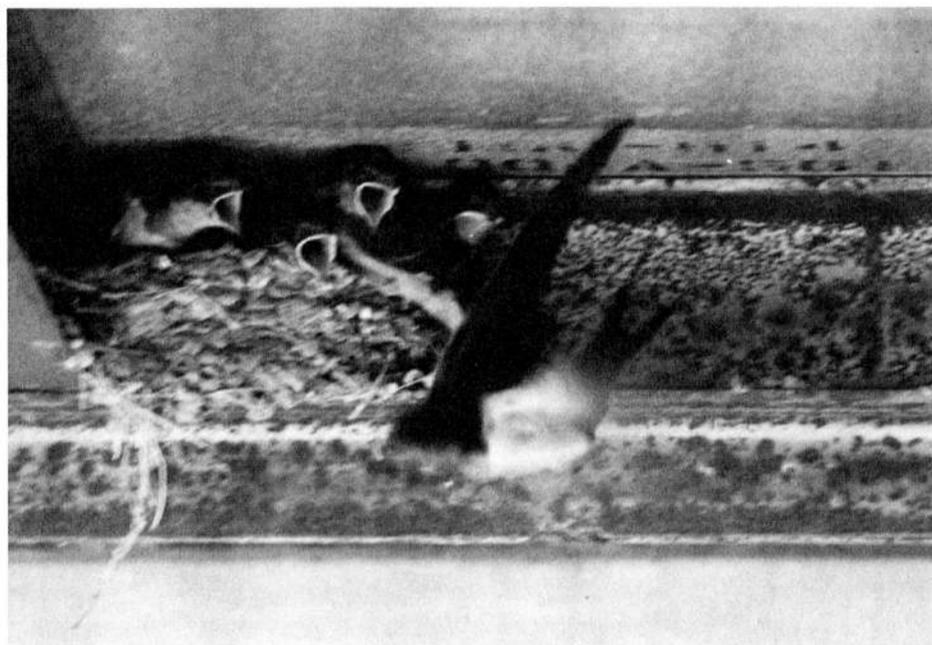
*"Some factors of genetic origin and little can be done about them."*

Obesity can be classified as primary or secondary. Primary obesity is due to some type of metabolic disturbance involving fat producing enzymes, excess secretion of insulin or the accelerated removal of caloric nutrients from the circulation. In the latter, signals to the brain, such as an elevated blood glucose or some other nutrient, don't reach adequate levels quickly enough to turn on the satiety mechanism before overeating has occurred. Some of these factors are genetic in origin and little can be done about them.

Secondary obesity is the result of simple overeating. An estimated 95 percent of overweight Americans fall in this category. It is likely that they also have subtle changes in their appetite-satiety biofeedback mechanism due to long conditioning. Eating patterns are established early in life. After 30, energy output usually declines, but food intake stays the same or even increases. The primary problem with most overweight people is a defect in discipline. People want to "have their cake and eat it too."

*"Fundamental problem is an excess of calories over bodily needs."*

All is not lost, however. A few suggestions may help those people who are still able to mobilize a little discipline. Regardless of the cause, the fundamental problem is an excess of calories over bodily needs. Body fat contains approximately 3,500 calories per pound, but this does not mean that a deficit of 3,500 calories over bodily needs will cause a pound of



BARN SWALLOWS—make their nest underneath the awning of the Mail Room entrance to Building 4500 South at ORNL. The overprotective mother made it rough on photographers Jim Richmond and Jon Thompson.

3752-78



UNITED WAY DIVISION COORDINATORS—from ORNL are, standing from left: Lucy Holloway, Engineering; Charlie Moak, Physics; R. A. Crowell, Instrumentation and Controls; Jim Holloway, Employee Relations; Bob Dilworth, Fusion Energy; and Rod Strand, Environmental Sciences co-chairman. Back row: Larry M. Gray, Laboratory Protection and Wendy Williams, Health and Safety Research. Front row: Linda Croff, Metals and Ceramics co-chairman; Stan Auerbach, United Way chairman for ORNL; Jim Roberto, Solid State; Gerry Slaughter, Metals and Ceramics co-chairman; Pat Parr, Environmental Sciences co-chairman; Berkley Davis, Finance and Materials; and Joel Buchanan, Engineering Technology.

Not present for the photograph were: J. C. Franklin, Analytical Chemistry; Sara Watson, Computer Sciences; Roger Carlsmith, Energy; Tom Tuck, Health; W. T. Martin, Industrial Safety and Applied Health Physics; Janice Blanton, Information; Lorraine Abbott, Engineering Physics; Ed King, Operations; Gerry Young, Plant and Equipment; and P. S. Lee, Quality Assurance and Inspection Engineering.

weight loss. Many factors influence the rate at which real tissue loss occurs. Loss in body water doesn't count. Maintaining a deficit in calories will eventually cause weight loss and—in spite of what proponents may say—all weight reduction diets depend on this basic principle.

Exercise is valuable. Weight loss usually occurs even though no attempt at calorie restriction is made. It requires at least 30 minutes of fast walking per day, and more is desirable. A more attractive distribution of weight is another benefit of exercise.

Food should be eaten slowly. Give your brain a chance to receive the proper signals. One aid is to have a glass of fruit juice followed by a glass of skim milk one hour before mealtime. Your blood glucose and

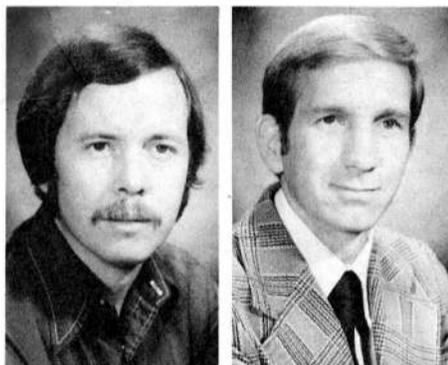
protein levels may then reach a high enough level by mealtime to hasten the slowdown of your appetite.

Don't miss meals. It is better to eat extra small meals than to have one big meal each day. Also, remember that food is one of the best tranquilizers there is. When emotional stress is high—exercise to drain off tension. Don't try to stop it by having an "orgy" at the refrigerator.

Losing weight is like stopping smoking. It first requires a basic decision. After that, achievement depends on a willingness to exert discipline. Hunger hurts, but so does weight. Crash diets may give dramatic temporary results, but they can be dangerous.

Remember, you didn't get fat quickly—don't expect to get thin quickly.

## Six promoted at Paducah



Boren

Burgess



Cannon

Elkins



Lindsey

Shepherd

### Engineering presents construction seminar on September 21st

Interested Nuclear Division employees are invited to attend a seminar on the "Organization of Capital and Large Expense Construction Projects," conducted by Nuclear Division Engineering staff members. The meeting will be held, Thursday, September 21, at 10 a.m. in the auditorium of the Environmental Sciences Laboratory, Building 1505.

Six promotions have been announced at the Paducah Plant. Named supervisors are Richard L. Burgess, Cascade Operations; Claude T. Cannon, Fabrication and Maintenance; Charles D. Lindsey, Power, Utilities and Chemicals; and Richard A. Shepherd, Cascade Operations. Ray G. Boren has been named an inspector in Plant Engineering; and Samuel L. Elkins a captain in the Fire and Guard Department.

Boren received a BS in industrial technology at Murray State University and joined Union Carbide in August, 1977. He was formerly with Ingram Barge Lines. He and his wife, Judy, live at Route 2, Gilbertsville, Ky., with their children, Jeannie and Christopher.

Burgess is a native of Paducah and attended Draughn's Business College. He joined Union Carbide in 1968. He and his wife, Vickie, have two children, Melinda and Richard, and live in Ledbetter, Ky.

Cannon received a BS from Mississippi State University in 1965 and has done graduate work at Murray State University. A native of Paducah, he is a member of the Kentucky National Guard. He and his wife, Bonnie, and children, Gregory and Sara, live on Wellington Circle, Paducah.

Elkins, a native of Dearborn, Mich., is a graduate of Oakland Community College and has attended Murray State and Wayne State Universities. He served as chief of police in Northville, Mich., and as chief of security at Fisher Price in Murray. He is a member of the International Association of Chiefs of Police. He and his wife, Mildred, have four children, Don, John, Sheryl and Lori. They live on Cleary Drive, Paducah.

Lindsey is a veteran of the U.S. Air Force and a native of Arlington, Ky. He attended Murray State University and worked for Scullin Steel. He joined Union Carbide in 1952, and lives at Route 2, Bardwell, Ky. He and his wife, Agnes, have four children, Kevin, Michael, Brent and Melissa.

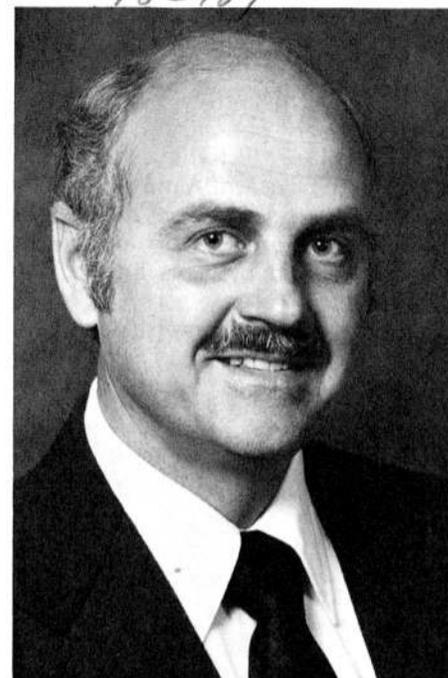
Shepherd came to the PGDP in 1968. A native of Paducah, Shepherd is a member of West McCracken County Fire and Rescue Squad and a certified Emergency Medical Technician. He and his wife, Carol, live at Route 2, West Paducah. They have two children, David and Lori.

## Broders heads Engineering's Quality Assurance program

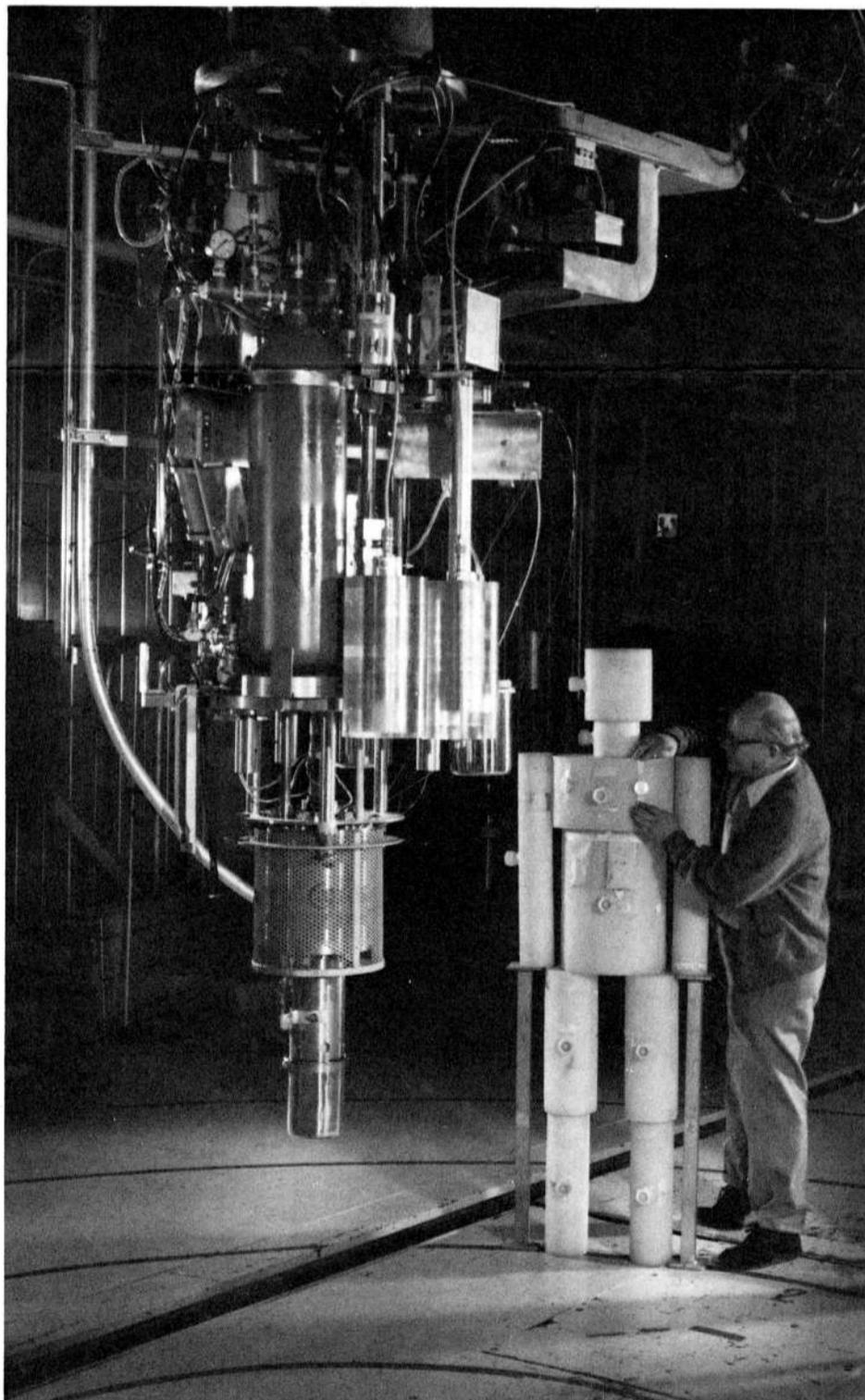
Martin A. Broders has been appointed manager of the Office of Quality Assurance for the Nuclear Division's engineering organization. He will guide the activities of the QA coordinators in the engineering groups to ensure that Nuclear Division and DOE quality assurance policies and practices are being followed.

The Nyack, N.Y. native holds a BS degree in marine engineering from State University of New York, Maritime College, and has done graduate work in industrial management at the University of Tennessee. He joined Union Carbide in 1961 as supervisor of Y-12 Technical Information Services. Most recently, he was supervisor of engineering systems and procedures.

Broders lives at 9643 Tunbridge Lane, Knoxville, with his wife, the former Kathleen Chadwell. They have a son, Jeffrey.



Martin A. Broders



REGIONAL AND NATIONAL HONORS—This photograph of the Health Physics Research Reactor and a scientist working on a phantom received honors in the 1978 Southeastern Professional Photographers Association industrial category and was accepted for exhibit by the National Professional Photographers Association. The photograph was taken by Terry Marlar, an industrial photographer in ORNL's Metals and Ceramics Division.

wanted...



### ORNL

CAR POOL MEMBER from Walker Springs Road, Knoxville, to West or South Portal, 8-4:30. Betty Hill, plant phone 3-6441, home phone 690-2962.

CAR POOL MEMBERS from areas of West Outer, Waddell, Pennsylvania or Hillside, Oak Ridge, to East Portal, 8:15-4:45. Tom Burnett, plant phone 3-6939, home phone 483-1975.

RIDE WANTED from between Karns and Solway to East Portal, 8-4:30 or 8:15-4:45. Sigfred Peterson, plant phone 3-1451, home phone 690-3980.

VAN POOL RIDERS from West Knoxville, I-40, Papermill Road exit area 8:15-4:45. Ray Pearson, plant phone 3-1805, home phone 588-9949.

RIDE WANTED from West Town Estates or Francis Road, Knoxville, to East Portal, straight days. Brad Weil, plant phone 3-0448, home phone 693-7503.

JOIN or FORM CAR POOL from Bexhill, Foxfire or Farmington subdivisions, off Ebenezer Road west of Knoxville, to East Portal, 8 to 8:15 shift. David Kaserman, plant phone 3-0436, home phone 693-2326.

### Y-12

VAN POOL RIDERS from Maryville-Alcoa area to Y-12, 8-4:30. Joel Horton, plant phone 3-2226, home phone 983-9160.

RIDE from Athens to Central Portal, straight day. Parker Pearman, plant phone 3-2156.

### ORGDP

VAN POOL RIDERS WANTED from Karns, to any portal, straight days. Tom Lemons, plant phone 3-9870, home phone 947-8959.

# about people...

**H. F. "Chester" Dunlap** department head of an instrument engineering support group at ORNL, has been named a Fellow of the Instrument Society of America. Since 1975 he has been concerned with measuring and controlling systems that support the Fusion Energy Division. A member of ISA since 1955, Dunlap was cited for "innovative and creative contributions to the advancement of Data Acquisition Systems and for the design of unique electronic circuits for high technology development and testing applications."



Dunlap



DeVan



Dodson



Donnelly

**Jackson H. DeVan** and **Ralph G. Donnelly** of ORNL's Metals and Ceramics Division, and **William H. Dodson**, director of the Development Division at the Y-12 Plant, have been elected Fellows of the American Society for Metals.

DeVan is recognized for his analytical and experimental contributions to the basic understanding of corrosion and related phenomena that occur on exposure of materials to various hostile environments. Donnelly's citation is for his technical and management contributions in the fields of nuclear power generation and energy conservation. Dodson is honored for his "guiding force in metallurgical processing of weapons materials and for persistence in providing highly precision equipment and personnel development for materials research and innovative metal working processes."

# Paducah receives safety award



**MERITORIOUS ACHIEVEMENT**—An Award of Merit was presented to PGDP at the annual Nuclear Division safety awards luncheon. The award recognized a record of 1,680,318 employee-hours without a lost-time injury, spanning the period from September 29, 1976, to February 16, 1977. Shown from left are J. O. Dobson, president of the United Plant Guard Workers of America Local; Hugh G. Coltharp, plant safety director; Clayton D. Zerby, Paducah Plant manager; William F. Thomas, assistant plant manager; Jim Chesnut, president of the Oil, Chemical and Atomic Workers Local; and William G. Beasley, member of the union-management safety committee at the plant.

## NUCLEAR DIVISION NEWS

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



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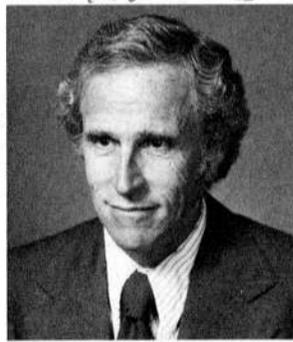
# anniversaries...



Jones



Lees



Levin



Orrison



Parker



Zasler

**Albert M. Jones**, Y-12 Chemical Services, joined the Manhattan District Project September 13, 1943. He lives at 101 Hutchinson Place, Oak Ridge.

**Ernest M. Lees**, a development staff member in the Engineering Technology Division, joined Tennessee Eastman's Beta Refining

Division at Y-12 on October 4, 1943. In 1950 he transferred to ORNL's Aircraft Nuclear Propulsion Division—now Engineering Technology. Lees lives at 108 West Farragut Road, Oak Ridge.

**S. A. "Sy" Levin** joined the SAM Laboratories in New York on October 5, 1943, and transferred to Oak Ridge

in 1946. He is manager of the Enrichment Planning Department in the Operations Analysis and Planning Division. Levin lives at 956 West Outer Drive, Oak Ridge.

**Robert G. Orrison**, a native of Anniston, Ala., joined Tennessee Eastman October 1, 1943. He is in the Process Design Department of the Engineering Division, and lives at 526 Delaware Avenue, Oak Ridge.

**George W. Parker** joined the University of Chicago Metallurgical Laboratory on October 26, 1943, and later that year transferred to the Biology Division of Clinton Laboratories. In 1972, he joined the Chemical Technology Division, where he is presently a development staff member. Parker lives at 321 Dominion Circle, Concord.

**Jack Zasler** also joined the SAM Laboratories October 18, 1943, joining the ORGDP forces in 1946. He is in the Gas Centrifuge Projects Office of Centrifuge Procurement Coordination Department, and lives at 19 Asbury Lane, Knoxville.

## ORNL

30 YEARS

Joe R. Walton, Analytical Chemistry; Edward C. Long Jr., Computer Sciences; Robert S. Stone, Instrumentation and Controls; and Ruby D. Wilkerson, Biology.

25 YEARS

Richard H. Busey, David K. Trubey, Norman D. McCollough Sr. and Chloris D. Starlin.

20 YEARS

Jerry S. Olson, Sherrill O. Smith, Betty C. Littleton, Gerald E. Pierce, Bobby G. Webb and Robert G. Keil.

## PADUCAH

25 YEARS

William C. Kuykendall, Earnest Griffin and Howard J. Douglas.

## ORGDP

30 YEARS

Jesse A. Duff, General Accounting; Anna L. Horton, Finance, Materials & Services; Joe T. Stanley, Fabrication and Maintenance Division.

25 YEARS

Betty P. Brown, Lynn F. Lockett, Lewis M. Koon, Walter T. Carter.

20 YEARS

Ronald C. Haese.

## Y-12 PLANT

25 YEARS

Rayburn C. Waldrop, Hardin B. Renfro, Earl W. Stooksbury, Jesse E. Haynes, James R. Taylor, Paul Craven, Elizabeth H. Tomlinson, Wayne W. Kirksey, Lacie W. Blevins, William R. Hicks and Coy Crutchfield.

## wanted...

### ORNL

TWO CAR POOL MEMBERS from Lovell Heights/Kingston Pike area, Knoxville, to North or West Portals, 8 to 4:30. Jerry Dixon, home phone 966-1232, plant phone 3-1108.

## 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.

### UCC stock purchases

**QUESTION:** I was interested in the Dividend Reinvestment Plan announced in the August 3 issue of **Nuclear Division News**. I am already purchasing UCC stock through the PIA plan. Is any action required on my part to take advantage of this plan?

**ANSWER:** No action is required. Dividends on stock held in the PIA will be reinvested in stock as usual. However, under the new plan, stock purchased with dividend money after September 1, 1978 will be acquired at a 5 percent discount from the average market price at the time of the purchase.

### Patient priority

**QUESTION:** What is the policy at the Y-12 Medical Center for treating patients? I went to the dispensary on a Friday afternoon and there was only one doctor on duty. He was treating a member of management. I waited to see the doctor for more than 20 minutes and then the doctor came out and said, "You will just have to wait. It will take me 30 minutes or more to find a technician and get an expert opinion on those X-rays." My question is why I couldn't have been treated while they were waiting on someone to read the X-rays? My time is also valuable.

**ANSWER:** It is the policy of the Y-12 Health Center to treat patients in a prompt, courteous, and helpful manner. Situations do arise where one or more of those elements do not meet the patient's satisfaction. In the particular case that prompted the question there were extenuating circumstances and the actual events that occurred were different than they appeared. We agree that your time is valuable also and hope that such a delay will not recur.

### Minority representation

**QUESTION:** Why are there no women and blacks in Reproduction at Y-12?

**ANSWER:** We assume you are referring to the Reproduction Department in the Material and Services Division. There are women in this department, but because one minority resigned to go into the ministry, and another transferred to a job providing better growth opportunity, there are no minorities at this time. This department has a very small turnover but has set a goal to try and correct this situation in FY-1979.

### 'Cute' name calling

**QUESTION:** How does one stop the constant sexist remarks and name-calling directed to secretaries? These "cute" names which refer to one's age, size, hair color, etc., are not at all appreciated. It would be interesting to see the reaction if one of the secretaries called one of her male co-workers "baldy" or "fella."

We wish to be treated in a respectable, professional manner; however, these remarks certainly do not reflect that attitude.

**ANSWER:** Most sensitive people recognize that calling secretaries by "cute" names is inappropriate and may be offensive. Union Carbide's "Nondiscrimination in Communications" policy provides that "communication initiated by the Corporation will be consistent with the principle that all people shall be treated with dignity and respect;" also that "titles, terms, and descriptions should be chosen with an awareness of currently sensitive issues so as to avoid alienating age, race, sex, or ethnic groups or organizations." The best way to stop sexist remarks is for all those who are offended by them—both men and women—to refuse to countenance them, to speak up when such remarks are made and let it be known that they are offensive and inappropriate.

### Part-time status

**QUESTION:** Please explain the reason behind the new policy that top Nuclear Division level approval must be obtained before an employee who has been working part-time for more than five years can change to full-time status. Are all part-time employees being informed of this new rule?

**ANSWER:** Under our Company Service Credit rules, part-time employees accumulate credit on the same basis as if they had been working full time. Pensions at retirement are based on the final three years earnings multiplied by the total years of company service. We want to avoid the situation where an individual might work as a part-time employee for many years, become a full-time employee for a few years, and thus be entitled to a pension as if having worked full time for the entire period of employment. For this reason any such change must have special approval.

Concerning your final question, part-time employees do understand that they are not allowed to go back and forth between part-time status and full-time status at will, and that moving from one status to another always requires management approval.

### Personal data access

**QUESTION:** Under the Freedom of Information Act, I understand that my "Q" clearance information gathered by the FBI and now held at DOE is available if I wish to see it. How does one go about getting such information?

**ANSWER:** Security clearances are the responsibility of the Department of Energy, not Union Carbide. Any questions regarding clearances should be directed to the Department of Energy.

## Security lieutenants named



Brummitt

Fouse

Fain

Grissom



Lenderman

Norman

Osborn

Reed

Nine new lieutenants have been named in Y-12's Security, Plant Protection and Utilities Division. They are Henry M. Brummitt, James Fain Sr., Thomas Fouse, Kenneth E. Grissom, Betty H. Lenderman, Harve C. Norman, Larry J. Osborn, Willie Chandler Reed and Everett R. Strange.



Strange

Brummitt, a native of Harlan County, Ky., worked as a fireman in Kingston before joining Union Carbide in 1976. He and his wife, the former Wanda Moore, live at 711 East Street, Kingston. They have two children, Jeffery and Sharon.

Fain was born in Knoxville, and worked 16 years with McClung Appliances before coming to Y-12 in 1971. His wife is the former Denota M. Walker. They live at 3332 Lay Avenue, Knoxville, with their children, James Jr. and Lisa.

Fouse, a native of Oakdale, Tenn., was with the Chamberlain Memorial Hospital before coming to Y-12 in 1967. Mrs. Fouse is the former Bernetta Siler, and they live at 514 Key Street, Rockwood.

Grissom joined Union Carbide in 1977 after working with the Oak Ridge Fire Department and teaching at Oak Ridge High School. The McMinnville native has a BS from Middle Tennessee State University and is working on an associate degree at Roane State Community College. He and his wife, the former Marsha McLaughlin, live at 105 Thayer Lane, Oak Ridge.

Lenderman, a native of LaPorte, Ind., was with Eastern State Psychiatric Hospital before joining Union Carbide in 1975. She has four

children, James, Benny and William, and Janice Ashley. She lives at 116 South LaSalle Road, Oak Ridge.

Norman, a native of Knox County, was in the U.S. Navy before joining Union Carbide in 1956. He worked also at Guantanamo Bay, Cuba, returning to Y-12 as a guard. He and his wife, the former Emma Kendrick, live on Edgemoor Road, Clinton.

Osborn, a native of Oak Ridge, joined Union Carbide in 1966 as an inventory clerk. He served more than two years in the U.S. Army. He and his wife, the former Shirley Ward, live at 204 Elmhurst Drive, Oak Ridge. She is in Y-12's Superintendents Division. The couple has a son, Christopher.

Reed, a native of Knoxville, joined Union Carbide in 1967. She is married to Amon E. Reed and they live at Malmsbury Road, Knoxville.

Strange was born in Newport, and joined Union Carbide in 1972 after serving in the U.S. Army. He is completing work on an associate degree in fire science technology at Roane State Community College. He and his wife, the former Karen Taylor, live at Route 5, Kingston. They have two children, Brian and Jony.

## safety scoreboard

Time worked without a lost-time accident through September 7:

Paducah .....	27 Days	392,000 Employee-Hours
ORGRP .....	154 Days	4,919,700 Employee-Hours
ORNL .....	235 Days	5,581,420 Employee-Hours
Y-12 Plant .....	148 Days	4,553,000 Employee-Hours

# Final Softball League standings

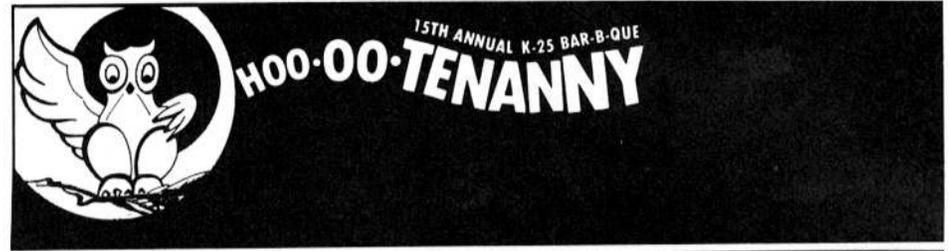
The 57 teams in the Softball League laid down their bats recently, retiring from the Park for the season. Only two teams, the Fes-Kids in the West Division, and the Streakers in the East Division, laid claim to a spotless record.

Final standings follow:

NORTH DIVISION			SOUTH DIVISION		
TEAM	WON	LOST	TEAM	WON	LOST
Snakes	14	1	Shifters	15	1
Lasers	12	4	Hawks	15	1
War Hogs	12	4	B.T. Express	10	4
Supersonics	11	5	Gas-House Gang	9	6
Barrier Clowns	11	5	Bruins	9	7
ESD YoYo's	9	6	Apeats	8	7
Over-The-Hill-Gang	7	7	Artie's Army	7	8
Short Circuits	6	9	The A's	7	9
Prime Time Players	5	11	Electric Bananas	5	10
Bio-Rejects	5	11	ESD Pits	5	10
Bad News Barriers	4	12	Streaking Stokers	5	11
Gross Encounters	3	12	Thunderdogs	3	10
Onagers	3	12	Ole Ruff & Ready Gang	0	15

EAST DIVISION			WEST DIVISION		
TEAM	WON	LOST	TEAM	WON	LOST
Streakers	16	0	Fes-Kids	15	0
Howie's Scooby-Doos	14	2	Knockers	13	2
Luda Loptas	10	6	Killer Bees	13	3
Mother's Sluggers	10	6	Master Batters	10	3
Forty-Niners	9	6	Softball Team	11	5
Fed's I	9	7	Fly Swatters	10	5
Crippled Turkeys	9	7	Bear Creek All Stars	8	6
Coneheads	9	7	Rhythm & Blues	6	8
Fed's II	8	7	Nit-Wits	5	8
Tom's Turkeys	7	9	Stonefingers	5	9
Paperback Riders	6	8	Wild Turkeys	5	10
Gauss House Gang	6	9	Pits	5	10
Skinks	6	10	Quads	4	8
Spastics	4	11	Bombers	5	11
Odds 'n Ends	4	12	Brinks	4	10
Uptowners	4	12	Lynch Mob	3	13
Critters	2	14	Spitballs	1	13



## Plans progress for barbecue

The ORGDP Barbeque Hootenanny is scheduled for Saturday, September 23, at the Clark Center Recreation Park. The 15th annual outing is open to ORGDP families and retired employees. The softball tournament between ORGDP divisions begins at noon and other events begin at 1 p.m. Adult entertainment includes clogging and square dancing demonstrations, belly dancing, bands, pie throwing contest, egg throwing contest and a hole-in-one contest. Prizes will be awarded. Supervised children's games will entertain the kids all afternoon. UT football fans can double the fun!

Dinner will be served this year at 4 p.m., allowing UT fans time to make the Oregon State/UT game, which does not begin until 7:30 p.m. in Knoxville.

Dinner includes either a barbeque sandwich or hot dogs and baked beans, cole slaw, potato chips, soft drinks, coffee and tea.

Tickets can be obtained from representatives in each division. If problems are encountered in finding tickets, call either Gary Patterson or Jim Rogers at extension 3-3174. Adult tickets are \$3, and children (under 12) tickets are \$1.50.



**SILVER PICNIC**—Members and retirees of the Power, Utilities and Chemicals Division at Paducah with 25 or more years of company service gathered for a silver anniversary picnic recently at Kentucky Dam State Park. Combined, the employees represent over 575 years of company time. Front from left are Dan C. Garrott, Jim Gardner, Charlie Borden, Harry B. Goode, Ray E. Brust, Herbert Wicker, George Stroud, Ron Terrell and Louis Allmon. Back from left are Bill Welsh, Curtis E. Yarbrough, George L. Chapman, Al M. Tuholsky, Bill Childress, Fred Allen, James R. Stephens, Bob Elliott, Billy Childress, L. Clinton Cunningham, Bill Vanvactor, R. C. Ward, Karrell Wallace and Everett L. Craycraft.

## Goose hunting. . .

Outdoorsmen at the Paducah Plant can enjoy goose hunting again this season on the Renfrow Hunting Ranch in nearby Ballard County. The Carbide season will be open on the following dates: November 23, 27 and 28; December 22, 27, and 29; January 3, 5, 6, 7, 17, 18 and 19.

PGDP employees and spouses, children of employees over 16 years of age and retirees are all eligible to select four hunting days for a fee of \$25 each. Blinds are drawn the morning of the hunt.

Hunters should meet no later than 5 a.m. at the Golden Goose Restaurant on every hunting day except November 28. On this day, hunting is scheduled at the Oscar

Field and hunters should meet at the Fin and Feather Restaurant.

All hunters must have a valid hunting license and wildfowl stamp. These will be available for those unable to secure them prior to hunting. Hunting applications are available in the Recreation Department, C-100; Stores, C-720 and the cafeteria. Mail or deliver applications with payment to the Recreation Department or any committee member—Hardy Pottinger, C-333; R. R. Mason, C-724; J. D. Turner, C-333; Tom Norment, C-200; J. D. Boss, C-337; J. E. Adkins, C-337; Norm Windt, C-409; D. L. Graham, C-337; M. E. Spear, C-337 or Donna Turner, C-720.

## Engineering Technology Division holds first annual golf tournament



Members and interested spouses of the Engineering Technology Division held their first divisional golf tournament at Southwest Point. About 50 enthusiastic participants braved the continuing threat of rain to compete for the prizes.

Winners in each of the four divisions were as follows: J. C. Lyons, Jane Trammell, Carol Carter and Tom Conley. Although he did not win first place since it was a handicap tournament, J. C. Lyons had a scratch score of 76 which was easily the best scratch score of the day. Bill Montgomery was the winner of the hole-in-one trophy.

The tournament planning committee was made up of Bill Montgomery (chairman), Carol Carter, Jim Teague and Bettye Seivers. All players expressed enthusiasm for continuing the tournament and are looking forward to next year's event.

## Surplus property vets plan reunion Sept. 23

The early 60's brought in a new method of disposing of surplus property and resulted in the closing of the Elza Warehouses and Sales Yard. The 60 to 70 people who worked there are staging a reunion picnic at the Jaycee Park at the Clinton Fairgrounds September 23, at 3 p.m.

All ex-employees still employed and those who have retired are invited. They should bring a picnic lunch. Details may be obtained from Dean A. Ford, extension 3-7287.

## patent granted. . .

To Robert L. Ludwig, Y-12 Plant, for "Ductile Tungsten-Nickel Alloy and Method for Manufacturing."

## Next issue. . .

The next issue will be dated September 28. The deadline is September 20.

PH 78-3599

PH 78 3597



Barbee



Peacock

## Two promoted at ORGDP

Two promotions have been announced at ORGDP. Buelah P. Barbee has been named a senior buyer in Purchasing and Lynn J. Peacock has been named department head of materials and chemistry technology in the Enrichment Technology Division.

Barbee, a native of Friendsville, joined the Nuclear Division at ORGDP 21 years ago. Barbee and her husband, Ben, live at 115 Nauda Drive, Knoxville. They have two daughters, Susan and Brenda.

Peacock has a BS degree in chemistry and an MS degree in industrial engineering, both from the University of Tennessee. The Atlanta native joined the Nuclear Division nine years ago at Y-12 and transferred to ORGDP in 1972. Peacock headed the special services department of the Technical Services Division before her recent appointment.

She and her husband, Joseph, live at 107 Dayton Road, Oak Ridge. They have a son, Jason.

## Holbrook, Kunselman, Millet promoted

Three promotions have been announced at ORNL. Carl W. Kunselman and Allen J. Millet have been promoted to maintenance supervisors in the Instrumentation and Controls Division; and Jerry L. Holbrook has been named an inspection supervisor in the Quality Assurance and Inspection Engineering Department.

A graduate of the DeVry Technical Institute (Chicago), Kunselman joined Union Carbide in 1963 as an instrument technician. He is a senior technologist and a member of the Institute for the Certification of Engineering Technicians (ICET). Born in Franklin, Pa., he and his wife, Betty, live on Peterson Road, Concord. The Kunselmans have one daughter, Gail.

Millet came to the Nuclear Division from Burrough's Corporation in 1962. The U.S. Army veteran received his diploma in radio engineering technology from Valparaiso Technical Institute in 1954. Millet is a certified senior engineering technician and a member of ICET. A native of Louisiana, he and his wife, Tsuneko, reside on Hughlan Road, Concord. They have four daughters: Sandra, Angela, Deborah and Catherine.

Holbrook is a graduate of Tennessee Technological University where he received his BS degree in industrial technology. The native Tennessean joined Union Carbide as a senior inspector in 1974. Holbrook and his wife, Charlotte, live on Macon Lane, Oak Ridge.



Millet



Holbrook



Kunselman

## retirements...



Melbourne L. Winton  
ORNL  
Engineering Technology  
31 years service



Clyde H. Thompson  
ORNL  
Plant and Equipment  
28 years service



Lacey D. Keel  
Y-12 Production Analysis  
32 years service



Kenneth W. Bahler  
Executive Offices  
34 years service



William G. House  
ORNL  
Quality Assurance  
and Inspection  
19 years service



Richard S. Snead  
ORGDP Computer  
Sciences  
35 years services



Anna P. Smith  
Production Analysis  
Y-12  
34 years service



Charles A. Fritts  
Purchasing  
32 years service



Harry L. Watts  
ORNL  
Engineering  
32 years service



George A. Hamilton  
ORNL, Instrumentation  
and Controls  
30 years service



Charles E. Dallas  
Process Maintenance  
PGDP  
26 years service

## Franklin, Chandler promoted at Y-12

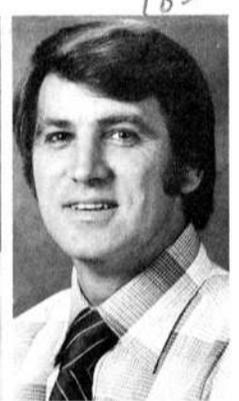
Two promotions have been announced at the Y-12 Plant. Clarence F. Franklin has been promoted to a supervisory trainee, Product Certification, and James E. Chandler has been named a material planner in Product Engineering and Scheduling.

Chandler, a native of Knoxville, joined Union Carbide in 1969 in the Dispatching Department. He and his wife, the former Linda Holloway, live at 5730 Wilkerson Road, Knoxville. They have three children, Kimberly, Karen and Kristi.

Franklin, also a native of Knoxville, holds a BS degree from Cooper Institute. He joined Union Carbide in 1968 and served with the U.S. Army in



Franklin



Chandler

Vietnam. He has a daughter, Carissa, and lives at 1227 Pickett Street, Knoxville.

**If you think the United Way is a lot of fun and games, sometimes you're right.**

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# Paducah emergency squad aided in reviving Roy Collins



LIFE AND BREATH—Resusci-Annie is the center of attention as those other people involved in the reviving of Roy Collins, Paducah Plant, practice their skills on the mannequin. Used as a training tool, "Annie" monitors effective cardiopulmonary compression and artificial resuscitation. It is also capable of simulating a pulse and pupil constriction. The Plant Emergency Squad consists of, kneeling from left, Joyce Sims, Gary Duncan, Val Moore and Vernon Belt. In the back row are Ralph Sawyer, Beach Jones, Jim Adkins and Joe Howard.

As pointed out in the story in the last issue of **Nuclear Division News**, Collins life was saved by the alertness of the emergency squad, and Ralph Sawyer, Sims and Jones. While those three received a citation from the National Safety Council, it was the knowledge of cardiopulmonary resuscitation of the entire group that saved Collins life when he suffered his heart attack. "It was my lucky day," Collins said of the incident.

## \$13 million fusion facility

(Continued from page 1)

(at very low temperatures, around -460 degrees F) conduct electricity without resistance; consequently, superconducting magnets will require relatively small amounts of power to produce their very strong magnetic fields. The cost—both in dollars and in energy expenditure—of operating such large electromagnets made of a normal conductor, such as copper, would be prohibitive.

The D-shaped electromagnets to be tested in the Large Coil Test Facility will measure roughly 15 feet high by

12 feet wide—still only about half the size of the magnets researchers expect will be used in early fusion reactors. The design of the facility provides for the possible future testing of full-size magnet coils.

Paul Haubenreich, Fusion Energy Division, is manager of the Large Coil Program, which is responsible for magnet coil procurement and for the construction and operation of the Large Coil Test Facility. Project engineer for construction of the facility is Louis Nelms.

## division deaths. . .



Mr. Ward



Mrs. Castleberry

**George W. Ward**, an ORNL employee, died August 14 at his Ventis Lane home in Powell.

Mr. Ward worked as a truck driver in ORNL's Plant and Equipment Division from 1974 to 1978. He was a member of the National Guard's 278th Infantry.

Survivors include his wife, Delores; daughter, Tammy; sons Timothy and Terry; sisters, Mildred Oliver, Ela Rose, Louise Cupp and Shirley Ward; and brothers, Ernie, Clifford, Roy and Otis.

Services were conducted by Stevens Funeral Home.

Margaret L. Castleberry, a secretary in ORNL's Laboratory Protection Division, died September 7 at Fort Sanders Hospital, Knoxville. She lived on Beaver Creek Drive, Powell.

Survivors include: her husband, Claude; son, Kenneth; daughters, Sharon Roberts and Janie; mother, Vina Clabough; brother, Thomas; sisters, Vernie Upchurch, Evelyn Clabough, Etta May and Elsie Sorey; and four grandchildren.

Services were held at the Weaver Chapel, with burial in New Gray Cemetery. In lieu of flowers, friends may make contributions to the American Cancer Society.



## Every night Tommy gets ready for his dad to come home.

There are a lot of children out there like Tommy, abused by parents who badly need help before they do something they may live to regret forever.

You may be surprised to learn that the United Way is doing something to give them that help.

In fact, when you think about the United Way, you probably think of the YMCA, Boy's Clubs, or

maybe the Girl Scouts.

The truth is that the United Way, through older agencies such as the YMCA and YWCA and other newer agencies, supports many non-traditional services.

As the needs of your community change, you can be sure the United Way will be right there changing with them.



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