

NUCLEAR DIVISION NEWS

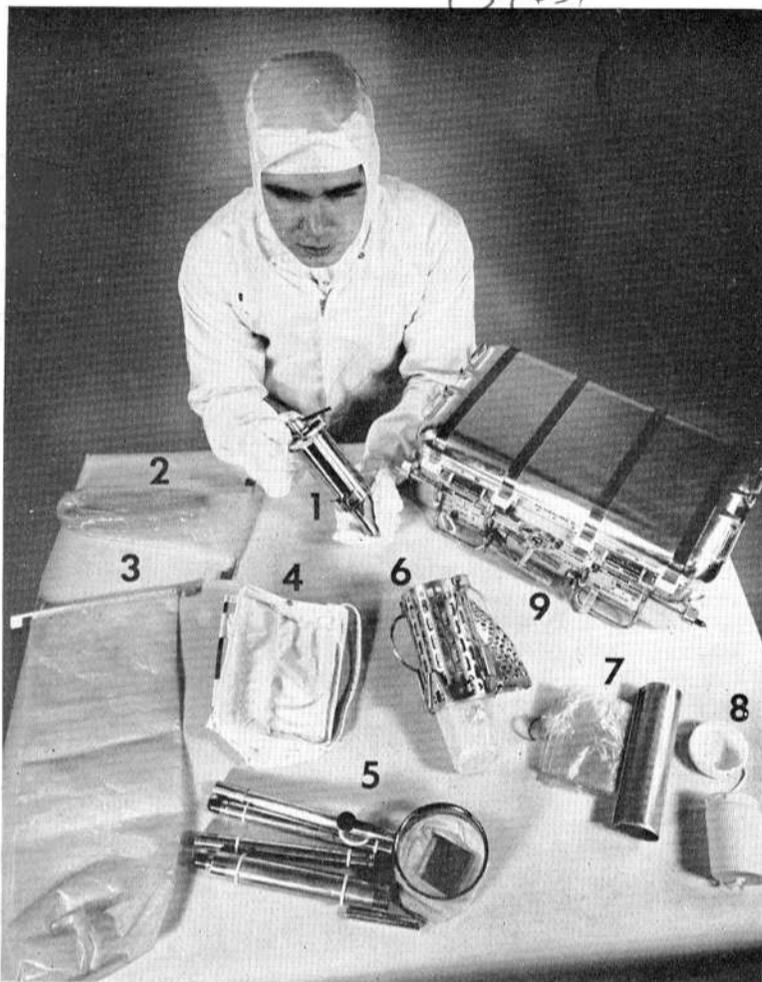


A Newspaper for Employees of the Nuclear Division, Union Carbide Corporation

Vol. 2 — No. 2

OAK RIDGE, TENNESSEE

Thursday, January 28, 1971



CARBIDE AIDS MOON PROBE—The Apollo-14 moon landing mission will carry a number of pieces of equipment designed and fabricated by personnel of Union Carbide Corporation's Nuclear Division at Y-12 and Oak Ridge National Laboratory. The items, as numbered are: (1) Lunar environmental sample container, held by E. A. Larson, Y-12's Chemistry Development Department; (2) organic sampler; (3) solar wind bag; (4) weigh bag; (5) contingency sample return container; (6) 35 sample bags with dispenser; (7) 15 sample bags with dispenser; (8) magnetic shield sample container; (9) Apollo lunar sample return container (moonbox). The Apollo-14 mission is scheduled to begin January 31.

Nuclear Power Seminars Set

A new series of seminars of general interest to Nuclear Division staff members will assess and review the technical issues of nuclear power. Alvin M. Weinberg, director of Oak Ridge National Laboratory, and Walter H. Jordon will present the first in the nine-part series at 3 p.m. next Wednesday, February 3. Their subject will be "Public Acceptance of Nuclear Energy."

Bloodmobile Visits Again in February

The Anderson County Blood Program, needing 450 donors to maintain "blanket coverage" for all Oak Ridgers and county residents, has planned "donor days" for Feb. 10 and 11.

The American Red Cross Bloodmobile will be at the Oak Ridge National Guard Armory both days, from 4 to 10 p.m. on Feb. 10 and from 11 a.m. to 5 p.m. on Feb. 11. The hours on Feb. 10 were especially arranged for the convenience of donors from Nuclear Division plants.

If you are between the ages of 21 and 65, please call either Oak Ridge 483-0211 or 483-5641 or Clinton 457-2828 so that volunteer groups can schedule you on one of the two days.

All seminars in the series will be held on Wednesdays, at 3 p.m. in ORNL's Central Auditorium, Building 4500-N.

Other scheduled seminars in the series are:

February 10—"Maximum Permissible Levels of Ionizing Radiation," K. Z. Morgan;

February 24—"Somatic Effects of Low-Level Radiation," John B. Storer;

March 10—"General Effects of Low-Level Radiation," William L. Russell;

March 24—"Waste Heat from Power Production—Can the Environment Absorb It?" Marvin Yarosh;

April 14—"Ecological Aspects of Nuclear Plants," S. I. Auerbach;

April 28—"Nuclear Accidents—Probability and Consequences," E. P. Epler and W. K. Ergen;

May 12—"Nuclear Power Plants—Decreasing the Probability of an Accident," W. B. Cottrell;

Previously scheduled talks at ORNL related to the nuclear power controversy include two Physics Division seminars: "New Methods of Waste Management," by J. O. Blomeke, East Auditorium, 3 p.m., February 5, and "Nuclear Safety: Myth or Reality," by W. B. Cottrell, 3 p.m., February 26, also in the East Auditorium.

Banner Year!

Safety Performance For Nuclear Plants Outstanding in 1970

Union Carbide Corporation's Nuclear Division registered an outstanding safety record during 1970.

During the year, the disabling injury frequency rate at the four facilities operated for the Atomic Energy Commission was 0.41. The disabling injury frequency rate is the number of injuries per million hours worked.

The Nuclear Division figure of 0.41 compares to a 1969 frequency rate for all U. S. industry of 8.08, and a chemical industry rate of 4.02. Employment at the Nuclear Division facilities in Oak Ridge and Paducah totals more than 15,000.

Commenting on the Division's safety record, Roger F. Hibbs, president of the Nuclear Division, said: "An outstanding safety record can only be maintained by the active interest and daily attention on the part of all employees." Hibbs explained that the Division's safety program encompasses formal safety meetings, inspection programs, an extensive education program which includes issuance of safety messages and bulletins, and a safety award incentive program.

Y-12's Record Best

Leading the Division facilities was Y-12 which had a disabling injury frequency rate of 0.23. The facility had three disabling injuries, and at one point the plant totaled more than 8,800,000 hours without such an injury.

A disabling injury frequency rate of 0.39 was noted at the Oak Ridge Gaseous Diffusion Plant where two accidents occurred during the year. The plant accumulated more than 4,100,000 man-hours during one period without a disabling injury.

The Oak Ridge National Laboratory, with four disabling injuries, worked 3,300,000 hours without a disabling injury. The frequency rate at the Laboratory was 0.61.

Two Mishaps at Paducah

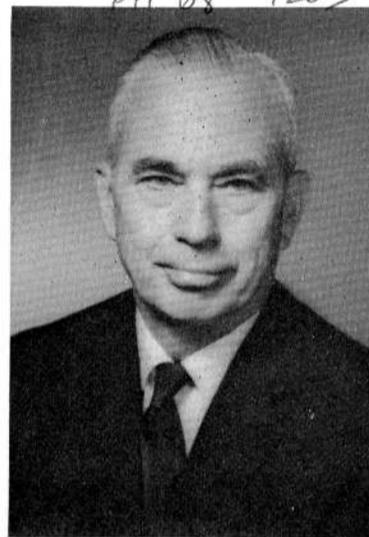
The Paducah, Ky., Gaseous Diffusion Plant worked 213 days without a disabling injury, which represents 1,280,000 man-hours. The plant had two accidents in the latter part of the year for a frequency rate of 0.97.

The 1970 frequency rate of 0.41 was one of the lowest recorded at the Nuclear Division facilities. It ranks behind only the all-time low of 0.23 set in 1968, and the 0.40 noted in 1969.

Gift Certificates

Nuclear Division employees for two years have been on an incentive plan where a cash value 'gift certificate' is accumulated over the year's span. Details on the issuance of gift certificates for 1970's safety performances appear in the Carbide Courier and Y-12 Bulletin sections of this edition of the Nuclear Division News.

Cromer, Jasny Are Assigned New Nuclear Division Posts



Sylvan Cromer



George R. Jasny

Sylvan Cromer, who has been associated with Union Carbide for more than 25 years, has been named special assistant on engineering problems for the Nuclear Division's production complex.

His appointment has been announced by Paul R. Vanstrum, vice president of the Nuclear Division, who said Cromer's efforts would be devoted primarily to the expansion of the uranium isotope enrichment complex. Prior to his new appointment, effective on February 1, Cromer was director of engineering (production) for the Nuclear Division.

Early Pioneer

A native of Marshall, Okla., Cromer was graduated from the University of Oklahoma with a master's degree in mechanical engineering.

He joined Union Carbide in 1944 as assistant superintendent of the Engineering Division at the Oak Ridge Gaseous Diffusion Plant. In 1944, he was assigned for a year to the Los Alamos Scientific Laboratory as superintendent of plutonium processing and fabrication. He returned to Oak Ridge the following year and was named superintendent of the Engineering Development Division. In 1950, he was appointed chief engineer at ORGDP, following which he served as director of the Technical Division at the Plant.

In Many Capacities

In 1954, Cromer was named co-director of the Aircraft Reactor Project, and director, Aircraft Reactor Engineering, at Oak Ridge National Laboratory. He was appointed vice president in charge of engineering for the Nuclear Division in 1957. When the industrial functions of the Nuclear Division were merged with other activities to form the Mining and Metals Division, he became director of engineering, serving in this capacity until 1967 when he returned to Oak Ridge as assistant to the general manager for production. He was named director of engineering for the Nuclear Division's production complex in 1967.

Cromer is a recipient of the Pi Tau Sigma Richards Memorial Award of the American Society of Mechanical Engineers. He is a member of the American Institute of Mining and Metallurgical Engineering. (Continued on Page 6)

The appointment of George R. Jasny as Director of Engineering for Union Carbide Corporation's Nuclear Division has been announced by Paul R. Vanstrum, Vice President of the Division. His appointment is effective February 1.

In his new position, Jasny will have overall responsibility for the engineering activities of the Nuclear Division's production complex. Prior to his new appointment, Jasny has served as manager of the Engineering Division at the Oak Ridge Y-12 Plant.

MIT Graduate

Jasny, who has been associated with Union Carbide for 20 years, received his bachelor's degree from the University of Washington, and his master's degree in chemical engineering from the Massachusetts Institute of Technology.

He joined the staff of the Oak Ridge Y-12 Plant in 1950. He was active in various programs, including uranium chemical processing and the engineering of lithium isotope separation processes. In 1960 he was named superintendent of the process analysis department. Two years later he was appointed superintendent of the Technical Division at Y-12, with overall responsibilities for process analysis, quality control, statistical services, radiation safety and uranium accountability.

In 1966, Jasny was named engineering manager, responsible for all plant engineering functions at the Y-12 Plant.

Active in Community

Jasny is a registered professional engineer, a member of the American Institute of Chemical Engineers, the National and Tennessee Societies of Professional Engineers, Tau Beta Pi engineering honor society, and Sigma Xi research honor society.

Active in community affairs, he is a member of the Board of the Cooperative Science Education Center, a member of the Oak Ridge Industrial Development Board and the Oak Ridge Rotary Club. He also has been active in Boy Scout work.

He is married to the former Gloria Jones. They live with their two children, Betsy and Tom, at 106 Dixie Lane, Oak Ridge.

Paducah Success Story

FIT Graduate Looks Forward to Bright Future

Two years ago Freddie Dwight Browning was a jobless 16-year-old high-school dropout going nowhere and not proud of the places he'd been.

Today, as a graduate of the Functional Industrial Training (FIT) Program at the Paducah Gaseous Diffusion Plant, Freddie is making big plans for March, when he will take a job as a welder in Mississippi at \$3.26 an hour—or, in other words, about \$130 a week straight time.

But even more important than the money, as Freddie phrases it, "I've got faith in myself again."

Several Success Stories

Young Freddie is one of several success stories of graduates from the FIT program, a manpower training project conducted at the Paducah plant, and modeled after the similar and highly successful Training and Technology Project at the Oak Ridge Y-12 Plant.

Twenty trainees were with Freddie last November when the first FIT welding class graduated. Before the program, none of them earned more than \$800 a year in taxable income. But now their average annual wage is nearly \$6,700 a year—even without overtime pay.

And FIT has just begun its job. Underway now are cycles in instrument repair, with 23 students; drafting, with 17; and a second one in welding, for 20 more. (Some 1,200 have been graduated from Oak Ridge's TAT project.)

A New Chance

To many of the trainees, the FIT program has meant a chance they felt would never come. After a lot of bad things happened to Freddie Browning, for example, he "didn't care much about anything or anybody"—mainly because few seemed to care about him.

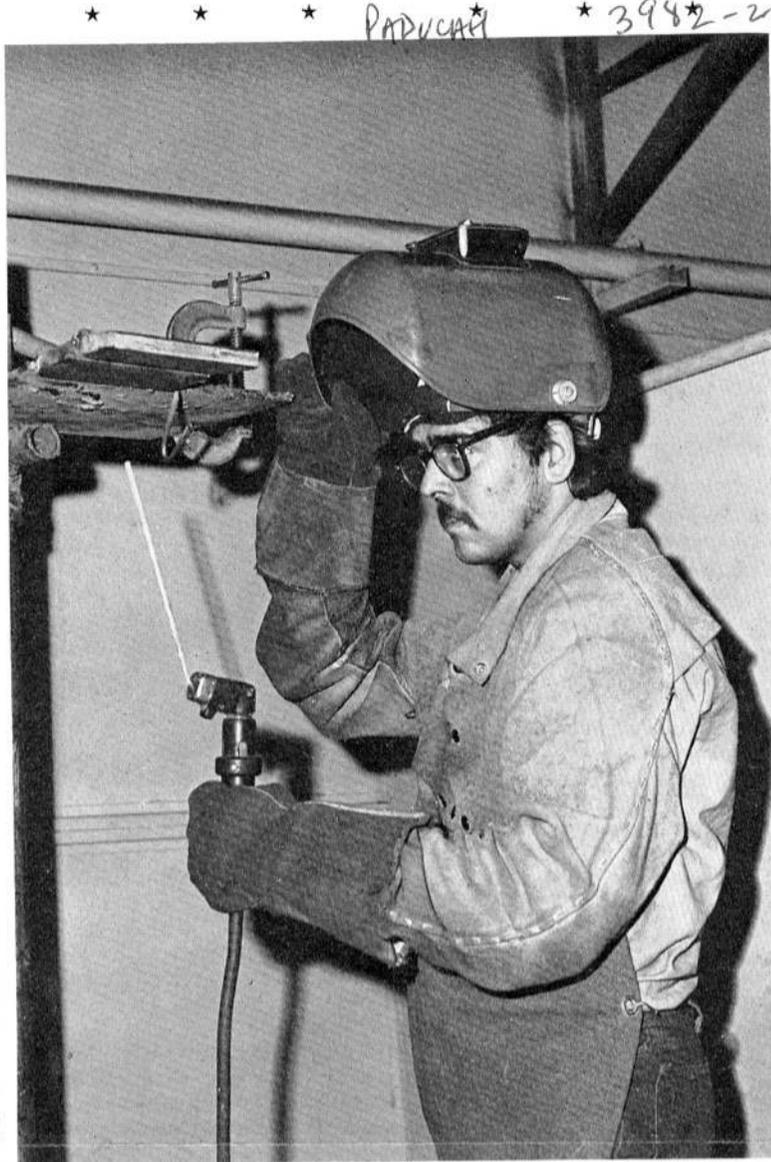
Born with a tumor that required radium treatments and finally surgery, Freddie began life with a handicap. As the years passed, painful troubles with his teeth often plagued him.

School work suffered, he dropped out of Paducah's Tilghman High School in the tenth grade, and after a short period he got into trouble. Suddenly at 15, confused and frustrated, feeling lost, he found himself at Kentucky Reception Center, a reform school, and a little later at Barkley's Boy's Camp.

But Freddie didn't give up. With the help of friends and counselors, he decided to enter a Paducah trade school, where he spent three hours a day for nine months learning about basic welding techniques.

Helped With Teeth

When the FIT program began, he applied for extended training



HAS HIGH HOPES—Freddie Dwight Browning, a member of the first graduating class from the FIT Program at the Paducah Gaseous Diffusion Plant, thinks his training will provide opportunities for a good future after a rough past.

in welding, was accepted, and good things have been happening ever since.

"They helped me with my teeth—and it didn't cost me a red cent," he said. FIT counselors contacted the Kentucky State Bureau of Rehabilitation Services and they secured the necessary funds to help the young man out. It would be hard to imagine anyone prouder of a set of false teeth.

His teachers say Freddie was a pretty good student. He needed extra help because his high school background was limited, but worked hard, and it's beginning to pay off.

"I've learned so much—about welding, about people, about myself," he says. Professionally the training qualifies him for the ASME Pressure Vessel Tests. The Mississippi job will pay him more than he expected to earn for years.

Needed by Industry

And that's the whole idea behind FIT—to help the disadvantaged to help themselves. FIT provides training for skilled occupations needed by industry.

Freddie, temporarily working for the Paducah's Parks and Recreation Department during the interim period, will report to Ingalls West, a shipyard at Pascagoula, Miss., in March, joining six other FIT graduates already employed and doing well there. Most other graduates are employed in other Kentucky industries, including five at the Paducah Gaseous Diffusion Plant.

Cooperating with the Paducah Gaseous Diffusion Plant in the development and operation of the FIT project have been the Bureau of Vocational Education of the

State of Kentucky, Murray State University and the Kentucky Department of Economic Security. The project is supported by the U. S. Department of Labor, U. S. Department of Health, Education and Welfare, and the Atomic Energy Commission.

IRS Is Offering Free Return Assistance

Many Union Carbide employees, frightened by the complex forms and tables involved, pay someone to fill out their Federal Income Tax Returns for them. If they're using the standard deduction (10 per cent or \$1,000 maximum) they can avoid this expense by asking Internal Revenue Service to do the job for them.

IRS will figure the tax for people with incomes up to \$20,000 who take the standard deduction and whose income is from salaries and wages, dividends, interest, pensions and annuities. They'll even figure the retirement income credit for retired employees.

The procedure is not only free—it's simple. Specific instructions and a sample filled-in form are included in the booklet each employee has received with his tax return package. IRS will figure the tax and send out the refund or a bill for any tax that may be due. A 30-day period is allowed for paying the bill without interest or penalty.

The nearest IRS office is in Knoxville, on the third floor of the main Post Office building, on Cumberland Avenue.

Sandia-Developed Parachute Shows Far Greater Accuracy

A remote-controlled parachute that "homes-in" on a selected landing site after deployment at transonic speeds has been developed at the Atomic Energy Commission's Sandia Laboratories, Albuquerque, N. M.

The parachute is guided by an operator who uses a small radio control console similar in some respects to those used by model airplane enthusiasts. By manipulating the control device lever, the operator opens and closes specially-designed flaps on the parachute canopy. This turns the parachute to left or right, and controls the angle at which it glides downward.

The operator—located either on the ground or in an aircraft—guides the parachute with the aid of television. The screen gives him a bird's-eye view of the landing area as recorded by a small gyrostabilized television camera located in the payload suspended by the parachute shrouds.

Mail Use Possible

Without radio control, such parachutes miss their target centers by an average of about 150 feet for every 1,000 feet of descent. With radio control, the error has been reduced to about seven feet per thousand feet of descent.

Still greater accuracy may be achieved with automated guidance, through which the system would "lock on" to a radio signal and guide the parachute to the target area without need for manual control.

"An obvious future application is the delivery of supplies either to marooned people or to devastated areas," says Alan Y. Pope, Sandia's Director of Aerothermodynamics. "It could also be used to deliver mail or high-priority goods."

Five Ton Capacity

Pope envisions use of such parachutes to drop lifeboats to survivors of capsized ships—or

to deliver emergency supplies to remote area stricken by natural catastrophes such as the Peruvian earthquake of last Spring.

"If this system had been on hand and ready for development at the time," Pope said, "a single C-5A possibly could have solved all the medical supply problems faced by the earthquake victims in one day."

In such situations, guided parachutes carrying supplies could be landed where needed—outside a hospital area, for instance, or in a village square. Pope said supply loads of up to five tons "should be no problem" for the new system.

Control 'Flaps'

Considerable remote guidance work has been done at Sandia with Para-Foils and other parachute types. However, these were suitable only for low speed deployment. The system now being tested can be deployed at velocities both below and above the speed of sound.

The parachute—designed by W. B. Pepper of Sandia's Rocket and Recovery Systems Division—is a modified version of a standard heavy-duty 32-panel ribbon design, measuring 24 feet in diameter. The lower five feet of the canopy is lined with nylon cloth and fitted with fur flaps—one opposing pair for glide control and a second opposing pair for roll (turn) control.

Two glide flaps, each two panels wide and five feet high, are interconnected by cable so that as one opens the other closes. Either forward or backward glide—at an angle typically 20 degrees from the vertical—can be achieved by this method.

Radio Signals

Two "butterfly" roll flaps—located 90 degrees from the glide flaps—are interconnected so that as the clockwise portion of both flaps close, the counterclockwise

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FAMOUS ATOMIC SCIENTISTS

NEWS

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JAMES A. YOUNG Editor



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OFFICE Post Office Box Y Oak Ridge, Tenn. 37830 Telephone 3-7100 or 3-5345



James C. Thompson

Thompson Elected By Welding Society

The American Welding Society, District 12, has named a Y-12er district director. James C. Thompson, supervisor of the Mechanical Inspection Department, in the Technical Division, has assumed a one-year term of office and has been nominated for a full three-year term beginning June 1.

Thompson is a past president of the local Northeast Tennessee Section of AWS, after having served in all offices. He is a charter member of the local AWS. A member of the Welding Handbook Subcommittee, Section IV, Thompson has co-authored and published several papers on welding. He served as president of the East Tennessee Chapter of the American Material Handling Society, commissioned inspector of the National Board of Boiler and Pressure Vessel Inspectors, and was presented the district's Meritorious Certificate Award by the AWS in 1960.

District 12 of the AWS is composed of 15 sections with members near 1400 engineers, technicians and welders located in the Central Atlantic states of Tennessee, Georgia, South Carolina, North Carolina and Virginia. Thompson will represent these sections and direct and promote the activities of the AWS at district and national levels.

The local section of AWS has numerous members in the Y-12 Plant and other Union Carbide organizations. E. N. Rogers, also in Y-12's Technical Division, is chairman of the section, and N. R. Parrott, Metal Preparation, is secretary.

SEEDS OF CRIME

Eighty-five per cent of the 12,655 convicts in Texas prisons are school dropouts, according to a study there. Almost a fifth of them are illiterate, more than three-fifths came from broken homes and almost half of them are under 25. More than a third were not working when they broke the law.



Late January finds more Y-12ers marking important dates with Union Carbide Corporation. Congratulations.

25 YEARS

- Eugen Boyd**, H-2 and F-Area Shops, January 16.
- Edwin F. Gammon**, Laboratory Operations, January 21.
- William A. Freels, Jr.**, Production Analysis, January 21.
- Delmas L. Glovier**, Electrical and Electronics, January 22.
- Lois K. Penland**, Data Systems Development, January 24.
- Hugh C. Nichols**, Chemical Services, January 28.
- Walter W. Pugh**, Area Five Maintenance, January 28.
- Carl K. Poland**, Casting Department, January 29.
- William Garland**, Production Assay, January 30.
- Ernest Edwards**, Area Five Maintenance, January 30.
- James B. Kennedy**, Chemical Services, January 30.
- George E. Massengill**, Building Services, January 31.

20 YEARS

- James F. Blount**, Buildings, Grounds and Maintenance Shops, January 16.
- Thomas L. Gregory**, Alpha Five Processing, January 16.
- Anne W. Wenzler**, Laboratory Operations, January 17.
- Wanda M. Anderson**, Production Assay, January 17.
- Robert L. Carson**, Guard Department, January 17.
- Edward E. Gregory**, Fire Department, January 17.
- Grady W. Smith**, Buildings, Grounds and Maintenance Shops, January 17.
- Hilton A. Tunnell**, Fabrication Division Engineering, January 17.
- William W. Bradshaw**, Electrical and Electronics, January 18.
- Ebenezer B. Oglesby**, General Expediting and Auxiliary Services, January 18.
- Melburn L. Patterson**, Machine Maintenance, January 19.
- Monroe Campbell**, Buildings, Grounds and Maintenance Shops, January 19.
- James H. Billingsley**, H-2 and F-Area Shops, January 19.
- Robert L. Fain**, Guard Department, January 22.
- Charles N. Brient, Jr.**, Process Maintenance, January 22.
- Homer M. Julian**, Material Transfer & Packing, January 22.
- Charlie W. Watson**, Beta Two Shop, January 22.
- Charles C. Ethridge**, Dimensional Inspection, January 22.
- Orville M. Freels**, Dimensional Inspection, January 22.
- Carl A. Slaughter**, General Machine Shop, January 22.
- Laroy S. Nabors**, M-Wing Shop, January 22.
- Estel J. Delaney**, 9215 Rolling Department, January 22.
- Alvin E. Hendrickson**, Dimensional Inspection, January 23.
- James P. Murray**, Dimensional Inspection, January 23.
- Hugh G. Richards**, General Machine Shop, January 24.
- Clifford W. Anderson**, Accounting and Budgets, January 25.
- Mattie B. Humphrey**, Production Analysis, January 25.
- Leonard H. Wilkerson**, Stores

(Continued on Page 4)

B. H. Heidel, C. W. Miner, W. C. Olka Are Assigned New Positions in Y-12

Three additional promotions are announced in Y-12, as Billy H. Heidel is named assembly foreman in Assembly; and Charles W. Miner and Wilbur C. Olka are appointed dispatching foremen in Product Engineering.

Billy H. Heidel

Billy H. Heidel is a native of Wartburg and presently lives at Route 6, Harriman. He came to Y-12 April 20, 1952. He served two years in the U. S. Army and farmed and worked around Harriman before coming here. He is in Alpha Five Assembly.

Mrs. Heidel is the former Anna Zumstein, and they have two children Gary and Sharon.

Charles W. Miner

Born in Rogersville, Tenn., Charles W. Miner came here October 23, 1967. He is a graduate of Oak Ridge High School, and a veteran of the U. S. Air Force, serving from 1963 until 1967.

The Miners live at 104 Glendale Lane, Oak Ridge. They have a son, Charles. Mrs. Miner is the former Sylvia Griffin.

Wilbur C. Olka

Wilbur C. Olka was born in Tonawanda, N. Y. He worked as a bricklayer during the early 30's and was with the Civilian Conservation Corps from 1934 until 1936, when he went with the National Manufacturing Co., Tonawanda. He worked there with the George Morris Construction Co. from 1938 until 1941. From 1941 until 1945 he was with the Durez Plastics and Chemical Corp., and came here July 11, 1946.

The Olkas live at 419 Robertsville Rd. Mrs. Olka was Irma Olka before their marriage. They have two married daughters, Bonnie Moisson and Lynn Covington.

Both Miner and Olka are in the Dispatching Department.

Bartholomew, Prominent Electrical Engineer, Dies

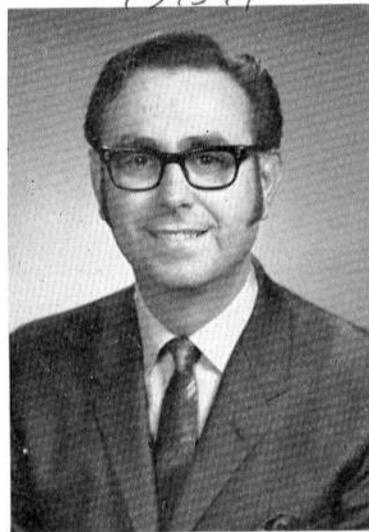
James E. Bartholomew, Electrical Engineering, died at his home, 159 Nebraska Avenue, Oak Ridge, January 11. A native of Scotts Hills, Tenn., he came here April 23, 1952.

A graduate of Tennessee Technological University, Mr. Bartholomew was a veteran of the U. S. Navy. He had also done graduate work in electrical engineering at the University of Kentucky.

Survivors include his wife Mrs. Lula Wall Bartholomew, children, Beth, Anita and James; his mother, Mrs. George James, Angola, Ind.; sister, Mrs. Glen Gibson, Hamilton, Ind., and several half-brothers and half-sisters.

Mr. Bartholomew, an active member of the First Methodist Church of Oak Ridge, was also an active sportsman . . . in bowling and golfing.

Funeral services were held January 13 at the First United Methodist Church, and interment followed in Oak Ridge Memorial Park.



Billy H. Heidel



Charles W. Miner



Wilbur C. Olka

More than 2.2 million U. S. Savings Bonds—either lost, stolen, damaged, or destroyed—have been replaced by The Department of the Treasury.

SAFETY SCOREBOARD

The Y-12 Plant Has Operated
37 Days Or
1,194,000 Man-Hours
(Unofficial Estimate)
Through January 24
Without A Disabling Injury
SAFETY AT HOME,
AT WORK, AT PLAY

Safety Certificates Again from Almart

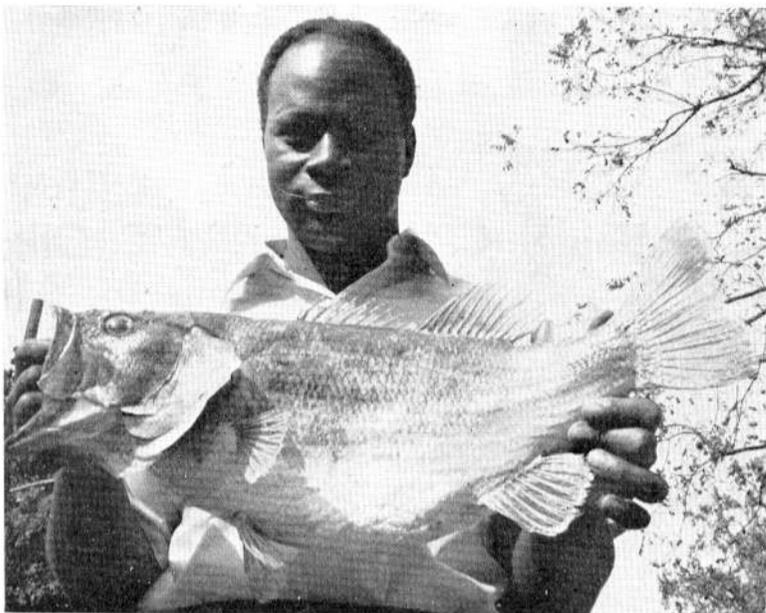
The values of safety awards earned by Y-12ers for 1970 have been determined. Gift certificates are in the process of being prepared. Basically, the plan is the same as used in the previous year: for each million consecutive man-hours the plant operates without a disabling injury, an award of \$1 is made and for each month a group operates without a serious injury each employee in that group is awarded 50¢. Awards earned for the year 1970 range from \$10 to \$16—\$10 for the prevention of disabling injury and from zero to \$6 for the prevention of serious injury within that group.

Awards this year are again in the form of gift certificates . . . redeemable at Almart's, Clinton Highway, Knoxville, in the Norwood area. Almart is increasing the net worth of the certificate by 25 percent . . . this increase is reflected in the certificate value. In other words, the employee's certificate amount already has the 25 percent 'bonus' added in. (Last year, several employees were under the impression that 25 per-

(Continued on Page 4)



PATENT APPLICATION — William A. Baldauf, Electronic Systems Design, is the latest recipient of a dollar letter—patent application. He receives his honor above from J. L. Noey, left, as B. B. Bell, center, looks on. Baldauf's patent application came as a result of his "Development of an Automatic D.C. Level Controlling System for a D.C.-Coupled Amplifier."



PRIZE-WINNING CATCH—Jesse Farmer, Jr., Guard Department, captured the largemouth bass category with this handsome specimen, pulled from the waters of Cherokee Lake. The bass weighed 10 pounds, six ounces. Farmer also gleaned first place in the hybrid rock bass class of fish. The new 1971 entry forms are now in Recreation.

Y-12 Names Top Fishermen for 1970 As Many Anglers Take Multiple Prizes

The Recreation Department has announced the winners in the 1970 annual fishing rodeo, and, as in past years, some prizes have gone begging. Two muskie places were not filled; one striped bass; one crappie; and two wall-eyed pike entries lacked a full complement. In other words, any size fish in those categories would have won some kind of prize!

Winners in each specie are listed below:

LARGEMOUTH BASS

1. Jesse Farmer, Jr., Guard Department, 10 lbs., six ozs.
2. B. O. Miller, Alpha Five Processing, eight lbs., three ozs.
3. W. C. Anderson, Environmental Control Engineering, seven lbs., 13 ozs.
4. John S. Orr, Area Five Maintenance, seven lbs., 13 ozs. (Anderson's fish by a "nose!" Five-eighths of an inch longer!)

SMALLMOUTH BASS

1. John S. Orr, Area Five Maintenance, five lbs., 12 ozs.
2. R. C. Murphy, Machine Maintenance, five lbs., 12 ozs. (Orr's fish one inch longer!)
3. E. J. Yearwood, Alpha Five Processing, four lbs., one and one-half ozs.
4. E. L. Bentley, Safety Department, four pounds.

BASS, STRIPED, ROCK, etc.

1. Jesse Farmer, Jr., Guard Department, 15 lbs., six ozs.
2. Fred B. Guttery, Chemical Services, three lbs., 14 ozs.
3. W. R. Jago, Process Maintenance, two lbs., 13 ozs.
4. No award.

BREAM, BLUEGILL, etc.

1. W. Q. Adams, Fabrication Systems Development, one lb., five ozs.
2. H. N. Benninghoff, Retired, one lb.
3. W. A. Less, Engineering Mechanics, 14 ozs.
4. J. M. Whatley, Process Maintenance, 11 ozs.

CRAPPIE

1. S. R. Anderson, H-1 Foundry, one lb., 13 ozs.
2. W. A. Less, Engineering Mechanics, one lb., nine ozs.
3. R. A. Jago, Electrical Engineering, one lb., four ozs.
4. No award.

MUSKELLUNGE

1. W. B. Motley, Jr., 9215 Rolling Department, 17 lbs., eight ozs.
2. O. L. Jones, 9215 Rolling Department, 13 lbs., eight ozs.
3. No award.
4. No award.

ROUGH FISH

1. J. L. Ailey, Alpha Five Processing, Catfish, 30 lbs.
2. R. E. Baxter, Retired, Catfish, 14 lbs., nine ozs.
3. E. L. Morrow, Quality Assurance, Buffalo, 11 lbs.
4. A. T. Gladson, 9766 Machine Shop, Drum, 10 lbs., 10 ozs.

SAUGER PIKE

1. Luther Thurman, Jr., Alpha Five Processing, three lbs.
2. Milton Carlton, General Shop Job Liaison, two lbs., 14 ozs.
3. C. R. Anderson, Beta Four Heavy Machine Shop, two lbs., 14 ozs. (one-half inch shorter than Carlton's sauger!)
4. R. S. Phillippi, Retired, two lbs., 11 ozs.

WALLEYED PIKE

1. E. M. Baird, Utilities Administration, nine lbs., nine ozs.
2. R. S. Phillippi, Retired, six lbs., 14 ozs.
3. No award.
4. No award.

TROUT

1. Joseph R. Morton, Jr., General Machine Shop, Brown Trout, 13 lbs., 11 ozs.
2. Garrett Baird, Jr., Dimensional Inspection, two lbs., 13 ozs.
3. Joe B. Jackson, SS Warehousing and Shipping, two lbs., nine ozs.
4. G. E. Valentine, Material Specimen Shop, two lbs., eight ozs.

Recreation further states that entry blanks for the 1971 race have been received and may be picked up. Or you may have them mailed to you, just call extension 3-7109.

South Carolina Rites Held for J. C. Webb

John C. Webb, Building Services, died January 14, in Knoxville. A native of Seneca, S. C., Mr. Webb came here November 7, 1952.



J. C. Webb

Survivors include his wife the former Josua Lee Barker, at his Knoxville home, 2562 Louise Avenue; sisters Mrs. Pastell Webb and Mrs. Beatrice Henderson, Seneca; and Mrs. Sue Holland, Atlanta.

Funeral services were held Sunday, January 17, at Nebo Baptist Church, Seneca.



Ride wanted from Ford Motor Co., Clinton, to Bear Creek Portal, straight day. Bill Simmons, plant phone 3-7444.

Ride wanted or will join car pool from Whittle Springs area, Knoxville, to North Portal, H Shift. Bill McNew, plant phone 3-5950, home phone Knoxville 525-7263.

Ride wanted from Yount Road, Karns, to North Portal, straight day. Pat Weaver, plant phone 3-5910, home phone Powell 947-8442.

Ride wanted, rider wanted, or wil join car pool from North Hills section, Knoxville, to any portal, straight evening shift. H. A. Hanna, plant phone 3-5283, home phone Knoxville 522-0587.

Will join car pool from East Village, Oak Ridge, to East Portal, straight day. Nathan Schulman, plant phone 3-5445, home phone Oak Ridge 483-8207.

Ride wanted from Jersey Lane, Oak Ridge, to North or Central Portal, straight day. Mary Guy, plant phone 3-5101, home phone Oak Ridge 483-3039.

Y-12 Milestones

(Continued from Page 3)
Department, January 26.

John A. Packard, General Weld Shop, January 27.

Kimble G. Edgemon, Guard Department, January 29.

Basil E. Ward, Tool Grinding, January 29.

Bettie D. Martin, Data Processing, January 29.

Ernest W. Burchfield, Stores Department, January 29.

Floyd McClure, Material Transfer & Packing, January 31.

Willie L. Parton, Buildings, Grounds and Maintenance Shops, January 31.

Henry G. Chambers, Building Services, January 31.

Andrew J. Smith, H-1 Foundry, January 31.

15 YEARS

Duane L. Craig, Research Services, January 20.

John D. Caylor, Laboratory Operations, January 23.

William E. Webb, Utilities Administration, January 30.

10 YEARS

Clifford E. Hunley, Dispatching Department, January 16.

Hubert B. Presley, Assembly Operations, January 25.

James E. Rhew, Engineering Mechanics, January 30.

West Virginia Services Held for H. R. Whitlock

Harry R. Whitlock, Process Maintenance, died at his Oak Ridge residence January 20. He came to Y-12 October 27, 1969, after working for the Bendix Corporation, Titusville, Fla. He was a native of Olcott, W. Va.



Whitlock

A veteran of the U. S. Army, he was a graduate of the National Trade School, and attended Beckley Business College, Beckley, W. Va.

Survivors include his wife Mrs. Linda Whitlock, and five children, Kenan, Clifton, Theodore, Harry and Lisa; and three brothers in Olcott.

Funeral services and burial were held last week in Olcott.

Instrument Engineers Eke Out C Alley Lead

The Instrument Engineers show no mercy on victims in C bowling, clipping the Purple Pygmies and the Jaguars in that order for three points recently.

Jasper Fincher, Fireballs, fired the alleys last week with a 248, 276 single . . . a series of 586 scratch, 670 handicap! In the previous week's action, Jim Franklin, Anodes, fired a 234 game through the backstop.

League standings follow:

| Team | W | L |
|----------------------|----|----|
| Instrument Engineers | 14 | 2 |
| Anodes | 12 | 4 |
| Badgers | 11 | 5 |
| Jaguars | 10 | 6 |
| Rollmasters | 9 | 7 |
| Fireballs | 9 | 7 |
| Sunflowers | 8 | 8 |
| Rounders | 8 | 8 |
| Big Five | 6 | 10 |
| Purple Pygmies | 3 | 13 |
| Parbusters | 3 | 13 |
| Royal Flush | 3 | 13 |

Twisters Take Victims In Mixed Alley's Race

The Mixed League got a replay last week of the previous week's action . . . the Twisters winning big from opponents. Their latest victim was the Goofers.

Other four point wins saw the Friskies by the Cougars and the Hits & Misses by the Alley Cats.

League standings follow:

| Team | W | L |
|------------------|----|----|
| Twisters | 14 | 2 |
| Friskies | 11 | 5 |
| Goofers | 10 | 6 |
| Rollers | 9 | 7 |
| Alley Cats | 7 | 9 |
| Hits & Misses | 6 | 10 |
| Cougars | 4 | 12 |
| Roses 'N' Thorns | 3 | 13 |

Assembly's W. H. Bonney Rites Held in Oak Ridge

Assembly Operations marks the death of Mr. Willie H. Bonney, long-time Y-12er, January 18.

Mr. Bonney came to Y-12 in 1949 after working at ORGDP for five years, hiring in there August 14, 1944.

Mrs. Bonney, the former Gladys Smith, survives at their Oak Ridge home, 101 East Damascus Road. Also surviving are two daughters, Mrs. Pat Hartman, Oak Ridge; and Mrs. Evelyn Hedgeworth, Knoxville; two grandchildren, and his mother in McComb, Miss.

Funeral services were held January 20 at St. Stephens Episcopal Church. Interment followed in Oak Ridge Memorial Gardens.

Smelters Smash Classic Alleyman for Slim Lead

Classic Bowlers saw fancy alley-work recently as Bill Hoppe, Rippers, tore off a 259 single game, 281 handicap single; and series of 676 and 742!

The Markers' Frank Tuck, not to be out-done, came in last week with a roaring 259, 281 single and series of 676 and 742!

The Smelters downed the Splinters to move up with a one-point margin.

League standings follow:

| Team | W | L |
|------------|----|----|
| Smelters | 9 | 3 |
| Markers | 8 | 4 |
| Cubs | 8 | 4 |
| All Stars | 7½ | 4½ |
| Bumpers | 6½ | 5½ |
| Rippers | 6 | 6 |
| Screwballs | 6 | 6 |
| Has Beens | 6 | 6 |
| Rebels | 6 | 6 |
| Playboys | 5 | 7 |
| RoJo's | 5 | 7 |
| Eightballs | 5 | 7 |
| Swingsters | 5 | 7 |
| Eagles | 4½ | 7½ |
| Tigers | 4½ | 7½ |
| Splinters | 4 | 8 |



WEDDINGS

CREEK—KROUSE



Mrs. Alan David Creek

Miss Mary Helen Krouse and Alan David Creek pledged nuptial vows at the Inskip United Methodist Church, Knoxville, on December 19. The Reverend Cabel W. Trent officiated.

Mrs. Creek is the daughter of Captain and Mrs. Henry William Krouse, 5636 Kentwood Drive, Knoxville (he is in Y-12's Guard Department). She is a junior at Tennessee Technological University, Cookeville.

The bridegroom is a graduate of TTU and is presently employed there. He is the son of Mr. and Mrs. George E. Creek, 103 Essex Lane, Oak Ridge. His father is in ORNL's Reactor Division in Y-12.

The couple is at home in Cookeville.

Safety Certificates

(Continued from Page 3)

cent should be added at the store, which is not the case.)

The certificates are redeemable for merchandise only and are transferrable by endorsement. They may be redeemed at any time without restriction. They will not be replaced in case of loss or theft.

Distribution is expected in early February, and will be made through supervisors.

Y-12 led the field last year in accident-prevention efforts, reflecting the low frequency rate of 0.23, working more than 4,100,000 man-hours in one stretch without a disabling injury.

This is the second year that gift certificates are awarded for safety performance, rather than personal items which were issued for many years in the plant.

Mix-Ups Tie Raiders For Starlite Alley Top

The Mix-Ups J. Holt bowled like a pro recently on Starlite Bowling races. Last week he posted a glamorous 230, 249 single . . . and series of 574 and 631 to bring his team up to tie for first place. The Raiders were previously up there, alone, but got trimmed by the Wildcats in action last week.

League standings follow:

| Team | W | L |
|-------------|-----|-----|
| Mix-Ups | 36 | 15 |
| Raiders | 36 | 15 |
| Latecomers | 31 | 20 |
| Wildcats | 30½ | 20½ |
| Woodpeckers | 30 | 21 |
| Marauders | 24 | 27 |
| Pin Boys | 22 | 29 |
| Comets | 22 | 29 |
| Splitters | 12½ | 38½ |
| Rollers | 11 | 40 |

THE CARBIDE COURIER

Thursday, January 28, 1971

Page 3



COLONEL ANNALYNN ESTES

Interest-Dedication to Kentucky Brings Colonelship to Lab's Annalynn Estes

Annalynn Estes, secretary to J. C. Barton, Laboratory Division Superintendent, was recently commissioned as a Colonel in the Commonwealth of Kentucky by Governor Louie B. Nunn. This honor was bestowed on Miss Estes "as a symbol of your interest in and dedication to Kentucky."

"Annie," as she is affectionately known, is a native of Pineville, Ky. She has been employed here 24 years this month. Before coming with Union Carbide, she worked for the Bell County, Ky., Draft Board.

Outside of her unflinching devotion to her native state, Annie's other interests include playing bridge, knitting, and enjoying the company of her two pet dachshunds. She also serves as treasurer of the First Christian Church in Oak Ridge. She resides at 221 South Purdue Avenue.

Engineering

by F. Dodge

David Zimmerman of Civil and Architectural Engineering and Sandy announce the arrival of Dana Michelle on December 10, 1970, at the Oak Ridge Hospital. Dana Michelle weighed eight pounds seven ounces and was 21 inches 'tall' on arrival. Though her parents would like a career of domesticity for her we have it on good authority that she is giving them lessons in "Women's Lib."

be increased by 25 per cent. This increase will be reflected in the face value of the certificate. Certificates will be redeemable for merchandise and are transferable by endorsement. They may be redeemed at any time without restriction; however, they will not be replaced should they be lost or stolen. Distribution of the certificates is expected in early February and will be made to you through your supervisor.

"Congratulations on a job well done. Let's do our best to make ORGDP an even safer place to work during 1971."

R. G. JORDAN
Superintendent

SAFETY SCOREBOARD

OUR PLANT
Has Operated
59,000 Safe Hours
Through January 21

Since last disabling injury on January 18

Anderson, Brashears, Carr, Chambley Kemmer, Larison and Ware Will Retire

Seven more employees are leaving us during January to join the growing ranks of retirees. They are E. F. Anderson, C. L. Brashears, Dr. F. W. Carr, W. B. Chambley, R. E. Kemmer, A. L. Larison and J. A. Ware

Anderson

Edwin Freedolph Anderson has been employed as an engineering draftsman since September, 1962, first in Machine Design and recently in the Mechanical Design Department of the Engineering Division. Before coming with us, Anderson worked for the Elliott Company in Ridgway, Pa. He served in the U. S. Army in France from 1943 to 1946. He is a native of Ridgway.

Mrs. Anderson had no trouble changing her name when she married, her maiden name was Doris Anderson; her hometown is Portville, N. Y. The Andersons have a daughter, Virginia Burris, employed at Miller's Beauty Salon. The Andersons plan to live in Oak Ridge at 104 Euclid Circle. He plans on gardening and doing church and choral work. He is a member of the Oak Ridge Bible Church, served as superintendent at the Sunday School for three years and was recently elected a deacon in the Church.

Brashears

Clayton Leo Brashears has been working as a maintenance mechanic in the Compressor Shop, Fabrication and Maintenance Division. He worked for TVA at Ft. Loudon and Watts Bar Dams before being employed here. Brashears was born right here, between the K-25 building and below where K-33 now stands. He attended Sugar Grove Grammar School. He is married to the former Martha Eblen of Kingston. The Brashears have seven children: Edna Bandy works in the welfare office in Kingston; Frederick is with Dempster Dumpster Corp. in Knoxville; Pauline Hensley is a housewife; Robert Clayton works in Dayton, Ohio; Thomas Charles is with Tennessee Eastman in Kingsport; James M. is a senior at TPI; and David is a junior in Kingston High. The Brashears live on Route 2, Lenoir City.

Gardening, fishing, hunting, and traveling will occupy Brashear's time after he retires. He plans to go to Florida for a while this spring. He says that he plans to work around his farm when he wants to and "take life easy."

Carr

Frederick William Carr is a physician in the Medical Department, Industrial Relations Division. He has been with us since January, 1956. Before that he was in private practice and served in the U. S. Coast Guard from April, 1942 to November, 1945.

Dr. Carr was born in Jackson, Tenn. He received a BA degree from Union University and his BS and MD degrees from The University of Tennessee. Mrs. Carr is the former Mary Katherine Livingston. They have three daughters: Patty works at the Baptist Hospital in Knoxville; Keith teaches at Farragut School; and Katherine attends Webb



Anderson

Brashears



Carr

Chambley



Kemmer

Larison

School. The Carrs live at 4185 Tawanda Trail in Knoxville.

Dr. Carr plans to do full time emergency room work with Knoxville Emergency Physicians Group serving Saint Mary's and Fort Sanders Hospitals. His outside interest and hobbies include hunting, fishing and playing tennis.

Dr. Carr said, "My employment at Carbide has been an enjoyable experience in a relaxed, friendly and cooperative atmosphere. I shall have pleasant memories of this period of my life."

Chambley

William B. Chambley has been a project engineer in the Project Engineering Department of the Engineering Division. He has been with us since January, 1945. Before coming here, he worked for two years with the Supreme Instrument Company in Greenwood, Miss. and from 1932 to 1943 he was in business for himself.

He is a native of North Carrollton, Miss., and graduated from high school in Greenwood. He has a BS degree in Electrical Engineering from Mississippi State University. Mrs. Chambley is the former Sarah Long from Teoc, Miss. The Chambleys have three daughters, all housewives: Sarah Ann Grove lives in Kingston; Linda Long Dodson in Oak Ridge and Mary Frances Blakemore in Kingsport. Their son W. B. Jr., is employed here at K-25, also in the Engineering Division. Chambley's outside interests include color photography-printing, a m a t e u r



From Concord Area to Portal 4. Ride wanted, 8:00 to 4:30 shift. Donna Pursley, phone 3-3135, home 966-5421.

Want to join car pool from Concord-Farragut Area to Portal 2, 7:45 to 4:15. L. B. Bloodworth, phone 3-3319, home 966-5608.

Ride wanted from East Village, Oak Ridge, to Portal 5, 8:00 to 4:30. Cheryl Ballew, phone 3-3682, home 483-1237.

Car pool members wanted from East Village to Administration Area, 7:45 to 4:15. Paul Pendergrass, phone 3-3381, home 483-8534.

Ride wanted from Clinton to Portal 2, 7:45 to 4:15. Belinda Irwin, plant phone 3-9604, home phone 457-9186.

WRONG COAT?

Someone picked up the wrong coat at Shoney's following the K-25 Christmas Dance. The coat taken by mistake was a ladies short mouton coat, black color. Found in its place was the same type coat except a smaller size. There were also the initials L.J.L. in the coat that was found. Anyone interested in swapping coats may contact Steve Moore at 3-3329, home phone 483-5451.

radio, fishing and hunting. He is also a direct distributor for Amway Corporation household products. He said, "I approach retirement with mixed emotions. I will certainly miss the many people that I have been associated with here in the plant." The Chambleys live at 109 Dana Drive in Oak Ridge.

Kemmer

Richard Eugene Kemmer has been a tractor operator in Buildings and Grounds. He has worked here since August, 1945. Before coming with us he worked for Southern Silk Mills in Spring City and then for J. A. Jones and Ford, Bacon and Davis here at K-25.

Kemmer is a native of Crossville and attended public schools in Spring City. Mrs. Kemmer is the former Stella Mitts from Spring City. They have two daughters: Peggy Lee is married to Harold Sweet, a Chief Pharmacist Mate in the U. S. Navy, stationed in California; and Nancy Lou is married to Milford Bloom, a 1st Sergeant in the U. S. Air Force, stationed in Greece.

Kemmer says he plans to take life easy for awhile and later to take a few odd jobs to occupy his time. He also plans on doing more hunting and fishing. The Kemmers live at 209 South Chamberlain in Rockwood.

Larison

Archie Lee Larison has been employed as an electrician in

(Continued on Page 4)

These Employees Reach 25 Years Service This Month



Annual Fishing Rodeo Winners Named; 'Bucky' Walters Is Tagged for Honors!

Winners have been determined in the 1970 Annual Fishing Rodeo for K-25 employees. Five prizes can be awarded in each of ten specie divisions: Largemouth Bass, Smallmouth Bass, Striped Bass, Walleye Pike, Sauger Pike, Crappie, Blue Gill (Bream), Muskie, Rock Bass (Red Eye) and Trout.

The 1971 Rodeo is now under way. Entry blanks may be obtained from the Recreation office in front of the Cafeteria Building. There is no charge for the entry blanks.

There were more entries in the 1970 Rodeo than in previous years, however, there were not enough entries in a number of species to win all the merchandise prizes that were available. K-25 fishermen are urged to carry entry blanks so that, when they catch that big one, it can be entered in the 1971 Rodeo.

Under a rule starting with the 1969 Rodeo, an employee is eligible to win in only three species. Several entered more than three, so their entries that placed highest in the three species are listed as winners. Following is a list of all the winners:

- Largemouth Bass**
1. J. D. McClendon 6 lb. 9 oz.
 2. E. H. Randolph 6 lb. 4 oz.
 3. B. A. Guy 6 lb. 1 oz. (L-23½")
 4. W. G. Norton 6 lb. 1 oz. (L-23")
 5. J. L. Madix 5 lb. 12 oz.
- Smallmouth Bass**
1. N. H. Hurd 5 lb. 4 oz.
 2. E. H. Randolph 4 lb. 2 oz.
 3. R. E. Cooper 3 lb. 2 oz.
 4. E. B. Eastridge 3 lb.
 5. J. L. Madix 2 lb. 13 oz.
- Striped Bass**
1. H. E. Walters 3 lb. 15 oz.
 2. N. H. Hurd 3 lb. 3 oz. (L-19")
 3. C. M. Parker 3 lb. 3 oz. (L-18½")
 4. J. H. Fletcher 3 lb.
 5. J. F. Winger 2 lb. 11 oz.
- Rock Fish (Includes Hybrid)**
1. W. G. Norton 11 lb.
 2. J. D. McClendon 10 lb. 10 oz.
 3. E. H. Randolph 9 lb. 6 oz.
 4. N. D. Rathbone 6 lb. 6 oz.
 5. R. G. Orrison 5 lb. 8 oz.
- Walleye**
1. J. D. McClendon 8 lb. 2 oz.
 2. J. H. Fletcher 5 lb. 12 oz.
 3. B. F. Crump, Jr. 5 lb. 11 oz.
 4. H. G. Rutherford 4 lb. 3 oz.
 5. J. F. Winger 3 lb. 8 oz.

- Sauger Pike**
1. J. L. Woody 3 lb. 14 oz.
 2. N. L. Sugarman 3 lb. 4 oz.
 3. J. H. Fletcher 2 lb. 14 oz.
 4. J. A. Walker 2 lb. 2 oz.
 5. J. G. Jones 1 lb. 11 oz.
- Crappie**
1. L. E. Southard 2 lb. 10 oz.
 2. H. K. Hughes 2 lb. 6 oz.
 3. W. G. Norton 2 lb. 1 oz.
 4. G. W. Counts 1 lb. 8 oz.
 5. J. D. Hart 1 lb. 6 oz.
- Blue Gill (Bream)**
1. H. E. Walters 1 lb. 2 oz.
 2. J. L. Sugarman 14 oz.
 3. R. M. Gross 11 oz.
 4. W. H. Adams 7 oz.
- Muskie**
1. V. E. Phillips 13 lb. 6 oz.
- Rock Bass (Red Eye)**
1. H. E. Walters 1 lb. 7 oz.
 2. N. H. Hurd 1 lb. 2 oz. (L-14")
 3. N. L. Sugarman 1 lb. 2 oz. (L-11½")
- Trout**
1. J. A. May 3 lb. 8 oz.
 2. D. J. Tevault 1 lb. 10 oz.

Bucky Walters Is Fisherman of the Year
H. E. (Bucky) Walters barely nosed out his perennial opponent, Neil Hurd, to win 1970 Fisherman of the Year honors.

Prize Selections
Rodeo merchandise prizes may be selected in the Recreation Office, in front of the Cafeteria, starting Monday, February 8.

K-25 Bowling Tourney Set for February 27, 28

The annual K-25 Bowling Tournament will be held on Saturday and Sunday, February 27 and 28 at the Ark Bowling Lanes in Oak Ridge.

The team events and mixed doubles will be rolled on Saturday and the doubles and singles on Sunday. The team events will probably be scheduled at 10:30 a.m. and 6:00 p.m. The mixed doubles session will start at 1:30 and at 9:00 p.m. The doubles and singles events will start at 1:30 and 6:00 p.m. on Sunday the 28th.

Rules and entry forms may be obtained from bowling league secretaries or from the Recreation Office in front of the Cafeteria Building, telephone 3-3097.

THE CARBIDE COURIER
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Editor H. J. Mayberry
K-1002 Building, Tel. 3-3097

Women's Bowling

The Pay-Offs emerged the winners of the first half of the Women's League in the January 5 session. It was a tight race right down to the wire. Maxine Gunter won Bowler-of-the-Week honors with series scores of 493-625. Mary Foley had the best scratch single game score with 193 and Helen Hobson rolled a 220 handicap game.

First Half Standings

| | |
|-------------------|------------------------|
| Pay-Offs41 | Hot Shots33 |
| Up-Towners .39 | Pin-Ups24½ |
| Wood Bees36 | Spotters17 |
| Bowlettes34 | Hits & Misses15½ |

To start the last half, the Pay-Offs took four points from the Wood Bees; Pin-Ups won four from the Hot Shots; the Up-Towners got four from Hits & Misses and the Spotters took the Bowlettes three to one. Nancy Hay had the best single game scores in the January 12 kegling with a 202-253 game. Mary Foley had a 512 scratch series and Betty Kemper scored a 628 handicap series.

Retirements

(Continued from Page 3)
Cascade Maintenance, Fabrication and Maintenance Division. He came with us on December 23, 1944. Previous employment included Newberry, Chandler and Lord at Hanford, Washington, and the Union Pacific Coal Company at Rock Springs, Wyoming.

Larison was born in Poplar Bluff, Mo., and attended public schools in Jonesboro, Ark. He is married to the former Sybil Louise Havey of Jonesboro. They have four children: John Paul, Agnes Louise, Stephen Robert and Mary Ann. The Larisons live at 115 Allen Avenue, Knoxville.

Ware
Justin Alonzo Ware has been a maintenance mechanic in the Valve Shop, Fabrication and Maintenance Division. He was employed here on March 18, 1946. He was a city employee in Hazard, Ky., for many years and served as fire chief and later became police chief at Hazard. After the war began, he worked in the Willow Run Bomber Plant for Ford Motor Co. in Detroit, Mich. Ware was born in Fountain Inn, S. C. His father was a mining engineer so the family moved around quite a lot. He completed high school in Hazard. Mrs. Ware is the former Elizabeth N. Engle.

Lab Notes

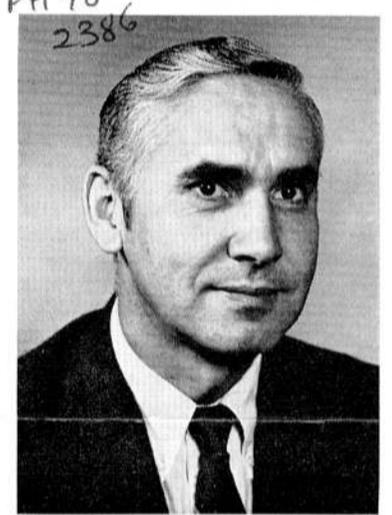
J. W. Amburgey, Jr., Separation Systems Design and Evaluation Department, of the Separation Systems Division, recently coauthored papers entitled "Zonal Centrifugation—A Tool for Environmental Studies" and "Separation of Clay Minerals and Soil Clays Using Isopycnic Zonal Centrifugation."* The Zonal-Centrifugation (Z-C) Techniques discussed in these papers represent the new applications for Z-C Systems developed by scientists and engineers from ORNL's Biology Division and from ORGDP. Amburgey, et al., reported the results of laboratory tests and described a satisfactory method for suspending and banding environmental samples containing clay minerals, with suggestions of possible applications of Z-C Technique.

In addition to the separation and identification of the inorganic components, one of the main interesting aspects of the Z-C Technique is the almost quantitative separation of calcium carbonate from the clays. Since the presence or absence of calcium carbonate in an environmental system controls many chemical processes, the separation of this component is a vital step in evaluating pollution potential of nutrients associated with sediments, soils, and other environmental media. Results obtained in the authors' laboratory on forms of phosphates using banded and unbanded materials show that calcium carbonate interferes with the characterization of this vital nutrient.

Further studies with environmental samples are being made at ORNL not only to better identify and quantify each component but also to better understand the role of each component in relation to

The Wares live at 116 Jonathan Lane in Oak Ridge.

Ware says that he plans to take some kind of a job to keep him busy. He likes to work and does not enjoy just sitting around. He also said that he had worked for perhaps a dozen different supervisors and "all of them have been very nice to work with."



J. W. Amburgey, Jr.

environmental pollutants. The Z-C Technique with the appropriate density gradient media is a useful tool in attacking these problems. *Bonner, W. P., Tamura, Tsuneo, Francia, C. W., and Amburgey, J. W., Jr., "Zonal Centrifugation—A Tool for Environmental Studies," Environmental Science & Technology, 4, p. 821-825 (1970).
Francia, C. W., Tamura, Tsuneo, Bonner, W. P., and Amburgey, J. W., Jr., "Separation of Clay Minerals and Soil Clays Using Isopycnic Zonal Centrifugation," Soil Science Society of America Proceedings, 34, No. 2, (1970).

15 Years' Service

| | |
|---------------------|----------|
| M. M. Clark | 01-09-56 |
| R. V. Fehling | 01-09-56 |
| R. E. Mayes | 01-09-56 |
| A. H. Rice | 01-10-56 |
| H. C. Jones | 01-16-56 |
| G. D. Parker | 01-16-56 |
| J. D. Drake | 01-19-56 |

20 Years' Service

| | |
|------------------------|----------|
| W. K. Whitson Jr. | 01-02-51 |
| R. Oldaker | 01-02-51 |
| S. C. Jacobs | 01-04-51 |
| D. O. Silver | 01-02-51 |
| W. H. Taylor | 01-05-51 |
| T. J. Lewis | 01-08-51 |
| J. W. Bishop | 01-08-51 |
| P. E. Scott | 01-09-51 |
| E. F. Martin Jr. | 01-15-51 |
| M. E. Adams | 01-15-51 |
| R. A. Cooper | 01-22-51 |
| H. J. Brown | 01-22-51 |
| E. R. Henderson | 01-24-51 |

10 Years' Service

| | |
|-------------------|----------|
| F. E. Ooten | 01-31-61 |
|-------------------|----------|

VASECTOMY: Plus & Minus

By T. A. LINCOLN, M.D.

Voluntary sterilization, especially for men, is now receiving considerable attention and support in popular magazines and newspapers. Many couples who are dissatisfied with their present method of contraception and determined not to have any more children, will consider a permanent surgical procedure. They read and hear enthusiastic reports and may assume the results are almost always favorable. Before making any decision, they need to be aware of some of the unfavorable psychological consequences which occasionally occur.

Because in men it is a minor operation, they are the ones who most frequently seek it. The operation, called a vasectomy,



Dr. Lincoln

merely prevents the sperm from gaining access to the ejaculatory mechanism. Sexual performance and hormone production are not physically affected. Since 95 percent of the ejaculum is manufactured by the seminal vesicles and the prostate, there is no significant change in the quality and quantity of the ejaculation. The only difference is that it contains no sperm.

It is interesting that use of contraceptive pills may be a significant factor in the increased interest in vasectomy. The "pill" has enabled millions

of couples to enjoy a more spontaneous sex life with no need to be concerned with contraceptive techniques applied at or near the time of intercourse. Once a couple has enjoyed this freedom, they are reluctant to return to coital techniques. Unfortunately, about 10 to 20 percent of women stopped taking the pill because of unpleasant side effects. In the past year and a half, there has been much written about the possible long term health hazards of the pill. As a consequence to either an unpleasant personal experience or concern about their general health, more women are urging their husbands to have a vasectomy.

Surgical Reconnection Possibility Remote

Population pressures probably concern only a small minority of women. However, with increasing emphasis on this world problem, more families will begin factoring this consideration into their family planning decision. Since vasectomy can only be performed after a family has reached its desired size, it is usually performed on men over 30. At this age couples are often concerned about a late "accidental" pregnancy. In couples 40 or over, this concern is naturally much greater.

Although surgical reconnection of the tubes cut during the vasectomy is possible in a small percentage of attempts, the original sterilization should be regarded as permanent.

In most surveys of couples several years after the man had a vasectomy, the response is overwhelmingly favorable. In a recent survey in Great Britain, 73 percent of the men and 79.4 percent of the women reported improvement in their sex life while only 1.5 percent of the men and .5 percent of the women reported deterioration. Ninety-nine percent said they would recommend the operation.

Promiscuity and Impotency

Several surveys have reported a low incidence of overt unfavorable effects but an appreciably higher incidence of subtle adverse psychological effects.

The two most obvious effects are promiscuity and a decline in potency. Both may be related to a concern about masculinity. A man whose marriage is not satisfactory may use his new freedom from concern about impregnating a woman to become a Don Juan. He looks for promiscuous women and finds them easily. His conquests reassure him about his masculinity. The consequence is usually divorce.

The man who is insecure in his potency before the operation may use it as an excuse for a decline in potency after surgery. Although there is no physiological reason for such decline, these men cannot be reassured.

Masculine 'Inadequacy'

Cultural factors may influence attitudes. In some national groups and in some families, having many children is the best evidence of being a "real man." Loss of that capability, even though there is no desire to have more children, can cause a



VOLUNTEER TEACHERS—Several Nuclear Division employees have volunteered their time as teachers in a special prevocational course in basic electronics offered by Knoxville's Opportunities Industrialization Center in cooperation with the Training and Technology Program. From left, are Y-12ers Larry E. Barnett, Ithamus Sturgeon, W. M. Weaver, Stewart Taylor, R. W. Byas, Jr., and John Jordan. All have also helped in curriculum planning and development and other ways. For example, Sturgeon also serves as guidance counselor, Jordan as director of shop activities, and Weaver as a primary developer of the curriculum.

Basketball's GBU's Down Shoestrings

Basketball action began January 11 with the Beta Two Miners beating the Demons 45 to 38, despite the fact the Demons played only four men. The Demons used the fast break to good advantage and played masterfully into the closing minutes of the game, then ran out of steam.

The Shoestrings showed their might in the second game, with big, powerful Jerry Brown muscling his way on the boards for little, easy shots and quick rebounds. They downed the Untouchables 55 to 41. Brown set the pace with 22 points.

The GBU's humiliated the

deterioration in a man's self image. Also going against one's religious training can lead to guilt feelings and depression.

A few husbands use the vasectomy as a justification for being less considerate of their wives. After all, they, the men, made a tremendous sacrifice for the marriage! Some husbands who compensate for a subconscious feeling of masculine inadequacy after a vasectomy, become more aggressive in their career development and less affectionate at home.

To avoid psychological complications, no couple should make a hasty decision on a sterilization procedure. Both members should give it careful thought. The operation should never be done to save a marriage. (It almost never works.) It should never be done under pressure. Any man who gives in to his wife's pressure, or even worse, to her family, is asking for trouble.

A vasectomy is an acceptable, legal and ethical method for permanently preventing pregnancy in happily married couples where there are no religious proscriptions. It must never be done without careful and deliberate consideration of all factors.

UF BOARD TO MEET

The United Fund of Anderson County will meet at 7:30 p.m. February 2, at the Courthouse in Clinton. Persons interested in learning how the UF Board conducts its month-to-month activities are invited to attend and participate. Board leaders are focusing on a new goal for 1971—wider community involvement in UF decisions.

James Gang 70 to 47, as the Gang tried vainly to stay in the fast game. Doug Raymer found the right spot as he stood on the right side, about 25 feet out, hitting bottom all evening.

New 'Help' Helps

In the first game January 13, the Hawks edged by the Bottlenecks with newly arrived help from Gary Ellis. Gary set the pace with 16 important points.

The Wild Bunch went wild early in the game with the Mod Squad, and outlasted the Squad, despite a valiant effort to play catch-up . . . the Bunch winning 46 to 34.

The CC 69ers, with a hot hand from Harold Connors, outlasted the Trojans in a tight squeeze 71 to 67. Churchill Moore paced the Trojans with 20 big points.

69ers Take Big Win

Last week's action began as the 69ers sank the Bottlenecks 70 to 37. The 69ers had too much over the smaller team. Everybody on the 69-team got into double scoring, Tom Davis ahead of the pack with 21 points.

In a cliff-hanger, the James Gang won in the closing seconds

over the Beta Two Miners 45 to 44. John Scott scored 26 of the 44 points for the losers!

Last Wednesday began with the Hawks out-lasting the Mod Squad 50 to 43. Scoring was evenly matched, quarter by quarter and the mid-term score was 20 up. But the Hawks had a hot third quarter, comparatively speaking.

GBU's Come Through

The Wild Bunch fell to the Untouchables 56 to 51 in the second game of January 20. E. T. Stamey led the losers in scores, 18 through the bucket. Mike Younkin tallied 15 for the winning cause.

The GBU's handed the Shoestrings their first defeat last week, 66 to 42 . . . with almost everybody on the GBU's team proving himself a big hero. Larry McDonald led the pack with 23; Bob Puckett sank 14; Fred Wetzell and Doug Raymer tallied 12 and 11 apiece.

League standings follow:

| Team | W | L |
|-----------------------|---|---|
| GBU's, Y-12 | 6 | 0 |
| Shoestrings, Y-12 | 5 | 1 |
| CC 69ers, K-25 | 5 | 1 |
| James Gang, K-25 | 4 | 2 |
| Untouchables, Y-12 | 4 | 2 |
| Beta Two Miners, Y-12 | 3 | 3 |
| Bottlenecks, Y-12 | 2 | 4 |
| Hawks, Y-12 | 2 | 4 |
| K-25 Trojans, K-25 | 2 | 4 |
| Mod Squad, K-25 | 1 | 5 |
| Demons, Y-12 | 0 | 6 |



INVOLVED—During the past Holiday season, participants in the Training and Technology Project in Y-12 collected \$105 among themselves as a contribution to the local Patty Rogers Fund, to purchase a kidney machine for the Oak Ridge High School junior. The project originated with a suggestion to the TAT Trainee Council by Roy Washington, council vice president and a welding trainee from Chattanooga. Pictured with the check they turned over to the kidney-machine fund on behalf of the current class of TAT trainees are the council officers: from left, Michael Davis, secretary, a trainee in mechanical operations from Chicago; Phillip J. Norman, Oak Ridge, council president and a physical testing trainee; Washington; and Gary Calvert, a drafting trainee from Oak Ridge who is council treasurer.



THEY ALSO SERVE—An important agency of the United Fund in this area is the Rescue Squad; this one happens to be the Lenoir City - Loudon County squad. J. D. Hatmaker, center, has been reelected president of the Tennessee Association of Rescue Squads.

Several Nuclear Division Men Serving In Rescue Squads in Oak Ridge Area

It doesn't get too cold to keep the Rescue Squad from its appointed duty.

That was the recent word from Y-12er J. D. Hatmaker, as he was reelected president of the Tennessee Association of Rescue Squads. Another Carbide man, Claude Maples was named historian for the TARS.

The Loudon County Rescue Squad, a member of the United Fund in that area, recently helped drag the Little Emory River nearby, searching for a youth believed to have drowned in the icy embayment of Watts Bar Lake.

Anderson, Roane and Knox counties all have Rescue Squads, too . . . dedicated men, men who wish to help in time of trouble. Hatmaker states that presently there are 67 squads in the state, and the ultimate goal is one for each of the 95 counties in Tennessee.

Hatmaker, a resident of Andersonville, is a member of Anderson County's Rescue Squad. There are countless other Carbide men involved in squads throughout the area. Grady Smith and Jack Roe are members of the Loudon County squad, along with Maples.

Maples described the Emory River operations recently, "J. D. and I have traveled a lot together. Just last week we were dragging the Little Emory with ice on its banks in a Region II call-out. There were 168 men, 35 squad vehicles, 15 squads, four kitchen busses, 28 boats, man-hours in the three thousand vicinity, and gas expenses in the hundreds."

All this over the recovery of an alleged drowning victim. Nobody was ever sure the youth had died. But it was a chance the Rescue Squad didn't choose to take. They're made like that.

Instrument Society Sets Meeting For Wednesday

The Oak Ridge section of the Instrument Society of America is meeting next Wednesday, February 3, at the Alexander Motor Inn. Hugh Brashear, Instrument and Controls, Oak Ridge National Laboratory, will speak on "Radioactive Isotope Sand Tracing."

The meeting begins at 6 p.m., dinner at 7, and the technical meeting at 8.

Volleyball Leaders Still Pack, Hawks

Two big teams stand aloft in the Volleyball League, as the Pack and the Hawks still maintain perfect records. (Due to a mix-up in scheduling, the gymnasium was not available last week. Play will be made up for that skipped night later on.)

Action started January 14 on Court A as the AECOP's Foibles curtailed the Boomerangs 15-10, 15-4 and 15-13. The Pack pelted the Quarks 15-6, 15-7 and 15-4. The K-25 Hawks hit the Radphys 15-1, 15-1 and 15-4. The Eagles overcame the Environmentalists 15-12 and 15-5. The ecology-minded team won game number two 16-14.

On Court B the Set Ups sank the ORNL Old Men 15-8, 15-13; then fell 16-14. The Gang galloped past Y-12's Old Men 15-9, 15-5 and 15-7. The Bombers belted the Gooneybirds 15-7, 15-10 . . . and the 'Birds made a come-back and won the last one 15-11.

League standings follow:

| Team | W | L |
|-------------------------|----|----|
| The Pack, ORNL | 15 | 0 |
| Hawks, K-25 | 15 | 0 |
| The Gang, K-25 | 12 | 3 |
| Set Ups, ORNL | 11 | 4 |
| Radphys, ORNL | 9 | 6 |
| ORNL Old Men | 8 | 7 |
| AECOP's Foibles, K-25 | 8 | 7 |
| Quarks, K-25 | 6 | 9 |
| Eagles, Y-12 | 6 | 9 |
| Boomerangs, ORNL | 5 | 10 |
| Bombers, ORNL | 4 | 11 |
| Y-12 Old Men | 4 | 11 |
| Gooneybirds, ORNL | 1 | 14 |
| Environmentalists, ORNL | 1 | 14 |

Cromer

(Continued from Page 1)

neers, Scientific Research Society of America, American Society of Mechanical Engineers, Tau Beta Pi and Pi Tau Sigma.

He and his wife, the former Rubye LeFevers, live at 123 Windham Road, Oak Ridge. They have four children.

'Hide and Seek' Depicts Civil War Excitement

"Hide and Seek," an original drama, will be presented by the Oak Ridge Junior Playhouse February 6 and 7 at 1 and 3 p.m. at the Playhouse. Written and directed by Gill Edmonds, this taut Civil War drama depicts the conflicts which occur when an attempt is made to help a young soldier, lost, injured and entirely dependent on his rescuers. When the would-be rescuers are on one side of the struggle and the wounded boy is on the other, excitement and suspense run high.

Phillip Edmonds, Thermonuclear Division, is in charge of set designs and construction.

Tickets are on sale for .75 each at Overton's, Woodland Drug Store and Jackson Square Pharmacy.

Parachute

(Continued from Page 2)

portions open. When the portions located on the clockwise sides are open, the system will roll counterclockwise.

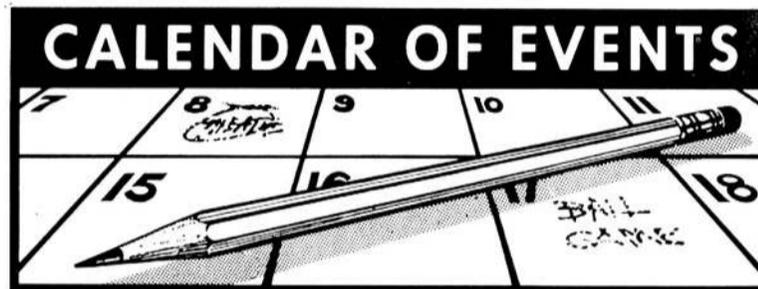
The flaps are opened and closed by means of cables attached to small windlasses driven by reversible electric motors. In turn, the motors are controlled by radio signals transmitted from the control console.

Flight test models of the new system were produced by Sandia's Rocket and Recovery Systems Division, with assistance from personnel in the Lab's Upper Atmosphere Projects organization.

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TECHNICAL

January 28

Biomedical Graduate School Student Lecture Series: "Microbodies (Peroxisomes and Glyoxysomes)," N. E. Tolbert, Michigan State University. Large Conference Room, Building 9207, 3:30 p.m.

January 29

Physics Division Seminar: "Channeled Heavy Ion Energy Loss Spectra," M. T. Robinson, Solid State Division, ORNL. East Auditorium, Building 4500N, 3 p.m.

February 2

ORNL Environmental Seminar: "Water Research and the Environment," J. S. Johnson; "Air Research and the Environment," F. A. Gifford. East Auditorium, Building 4500N, 3 p.m.

February 3

Monthly meeting Oak Ridge Section of the Instrument Society of America: "Radioactive Isotope Sand Tracing." Hugh Brashear, Instrument and Controls, ORNL. Alexander Motor Inn, social hour 6 p.m., dinner 7, meeting 8.

February 5

"Co-existing with Nuclear Energy VII: New Methods of Waste Management." J. O. Blomeke, Chemical Technology Division. Building 4500N, East Auditorium, 3 p.m.

February 9

ORNL Environmental Seminar: "NSF Program," J. H. Gibbons; "Environmental Quality Pro-

gram," M. M. Yarosh. East Auditorium, Building 4500N, 3 p.m.

February 10

Metals and Ceramics Division Seminar: "Economics of Fuel Fabrication for Power Reactors," A. L. Lotts. East Auditorium, Building 4500N, 2:45 p.m.

COMMUNITY

January 29-30

The Oak Ridge Playhouse presents "The Night Thoreau Spent in Jail." Oak Ridge Playhouse, 8:20 p.m. Admission: Adults \$3; students \$1.50.

January 30-31

Smoky Mountain Gun Collectors Association Gun Show, Kurbela Shrine Temple, Knoxville. Open to Public. Hours Saturday from 9 a.m. to 9 p.m., Sunday 9 a.m. to 3 p.m.

January 30

Oak Ridge Civic Music Association Gala Opera Night. Oak Ridge High School Auditorium, 8:15 p.m. Admission: Adults \$2.50, students \$1.25.

February 6-7

Oak Ridge Junior Playhouse presents "Hide and Seek," an original dramatic play. Oak Ridge Playhouse, 1 and 3 p.m. Admission: \$.75.

BOWLING CONTESTS SET

Time for Bowling Tournaments has rolled around again. Y-12's tournament will be held Saturday and Sunday, March 13, 14. ORGDP has chosen the week-end of February 27, 28.



MOTHERS' MARCH—Tonight (Thursday, Jan. 28) more than 1,000 Oak Ridge mothers will conduct their annual Mothers' March for the March of Dimes—National Foundation campaign against birth defects. During the early evening, the marching mothers will make house-to-house visits throughout the city as part of the appeal, which supports efforts both to prevent and treat the birth defects that strike 250,000 American infants annually. General Chairman for the 1971 Mothers' March in Oak Ridge is Mrs. Michael Shemanski (second from right). With her are the drive's three Area Chairmen: from left, Mrs. Bert M. Kelly, Mrs. John R. Sites, and Mrs. Herbert W. Hensley.



THOREAU'S FRIENDS—Marge Caldwell and John Bartkus portray Mrs. Ralph Waldo Emerson and son in the Playhouse's current production 'The Night Thoreau Spent in Jail,' which will be seen again this weekend.