



NUCLEAR DIVISION NEWS

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

Vol. 4 - No. 3

Thursday, February 1, 1973

QUESTION BOX

QUESTION: I am soon to be married. What forms should I fill out and what necessary steps must I take to change my name, etc.?

ANSWER: Although the procedure is different at each installation, you can start at the Employment Department at your installation (Personnel Records at ORNL), and from there you will be directed to the other departments to be visited to fill out the necessary forms. The following information will be needed:

1. Your name and mailing address for Company records.
2. A newly filled-out W-4 Income Tax Withholding form, if you desire it.
3. Any changes, such as beneficiary designation for Benefit Plans' records (Group Insurance, Savings Plan, etc.).
4. If you wish, family coverage in the Hospitalization, Major Medical, or Special Medical Plans (not later than 30 days after marriage).
5. New badge picture with married name.
6. Security form with necessary information about husband.

Similar information will be needed from a man getting married, except for the badge picture.

QUESTION: Enclosed is a copy of the Y-12 schedule of UT classes offered in the Y-12 Plant at Building 9709. Why are courses such as accounting and general math not offered which would benefit employees working on business degrees? Is it possible to begin scheduling courses of this type to be offered in addition to the industrial education courses?

Also, can courses be set up for study for the Certified Professional Secretary's exam during working hours, similar to the Engineering Science Review in Building 9733-3 on Mondays and Thursdays at 1:30 to 3:30 for review for the Professional Engineer's exam?

ANSWER: The courses offered in Building 9709 are primarily those that are associated with the Training and Technology Program. TAT is an experimental industrial training project with curricula equivalent to trade and technical schools. The University of Tennessee, which has been a major contributor to the project, also conducts teacher training at the TAT site. The courses offered normally relate to the industrial education curriculum of the University and not to business degree programs. In view of this, it is highly

unlikely that Accounting and General Math will be offered.

Union Carbide conducts a variety of training programs, including classroom courses, on Company time when these are deemed necessary to upgrade qualifications of certain groups to meet present or anticipated requirements. The Professional Engineers Science Review courses fall into this category. There is no plan at the present time to extend this arrangement to those preparing for the Certified Professional Secretaries' examination.

QUESTION: In talking to insurance people, the phrase "spouse option" comes up frequently. Just exactly what does that mean in our pension or retirement plan?

ANSWER: The Pension Plan provides an automatic benefit to the spouse of any employee who dies while still employed by the Company provided he is at least 55 years of age and has at least 10 years of Company service. This is called the "Pre-retirement Surviving Spouse Benefit." The monthly income normally equals 50 percent of the pension the employee would have received if he had retired on the date of death.

An employee may make arrangements for his spouse to receive a pension benefit if she outlives him. To do this, the employee must elect this option no more than six months or less than thirty days before his retirement date. This is called the "Surviving Spouse Option." If this option is elected, there is a reduction in the employee's monthly pension based on his age and the age of his spouse. Under this option, if the retiree dies first, the spouse receives 50 percent of the pension that the retired employee was receiving.

Although the masculine gender has been used in this answer, benefits are available to the spouses of women as well as men employees.

QUESTION: What is the Company policy on employees getting to work during extremely adverse weather conditions?

ANSWER: The Company expects employees to make every effort to get to work on their regular schedule even when there are adverse weather conditions. This would include making whatever prior plans are necessary to cope with adverse conditions. The recent ice and snow did not prevent employees in the Nuclear Division from giving an excellent response in getting to the job, despite the weather.

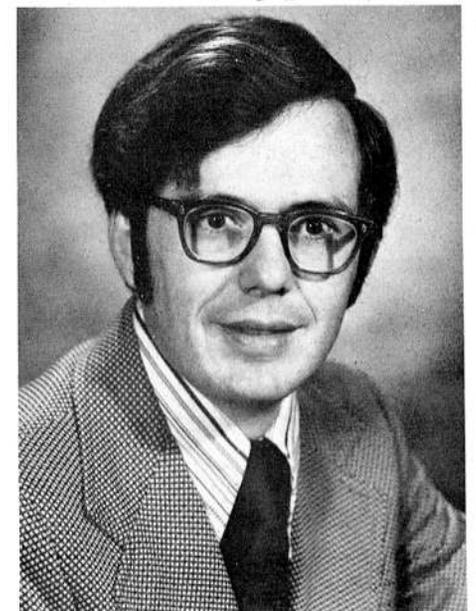
Merriman will head Paducah's planning and technical support

J. Robert Merriman has been named superintendent of the Planning and Technical Support Division at the Paducah Gaseous Diffusion Plant. The appointment, effective January 1, was recently announced by Clyde C. Hopkins, Paducah plant superintendent.

Merriman first joined Union Carbide as a summer student at the Oak Ridge National Laboratory's Chemical Technology Division. After his graduation from Vanderbilt University in 1963, he went with the Engineering Development Division at the Oak Ridge Gaseous Diffusion Plant. In addition, Merriman holds a master's degree from The University of Tennessee. He has completed most of his work toward a Ph.D.

In 1967 he was named group leader in Process Systems Studies at ORGDP, and in 1969 his duties were expanded to include responsibilities in the Process Experimental Operations of Gaseous Diffusion Development.

Merriman was active in the Oak Ridge-Knoxville chapter of the American Institute of Chemical Engineers, serving as its chairman in 1972. He was previous-



J. Robert Merriman

ly continuous education chairman for AIChE.

A native of Maryville, Merriman lives with his wife, Sandra, at Route 1, Mayfield-Metropolis Road, Paducah.

X-ray safety features included in industrial cooperation list

Standards for installing safety features in X-ray and nuclear radiation facilities for the protection of operating personnel are included in the latest series of Industrial Cooperation Bulletins being mailed to industries throughout the nation.

The bulletins are issued as part of the industrial cooperation program of the Nuclear Division, Union Carbide Corporation.

Each bulletin describes a specific item, reports on the stage of development, the potential industrial application, and patent status. In addition, the bulletins give the names of those persons from whom additional information can be obtained.

The personnel safety features included in the newly-developed standards are audible and visual warning devices, interlocks, physical restraints and circuit devices. A description of the application of these features to X-ray and neutron generating equipment, radioactive sources, and nonvacuum electron beam welders is contained in the standards.

Among the other items included in the latest Industrial Cooperation Bulletins are:

- A procedure for monitoring low-level water-soluble, airborne fluorides.

- A high-level liquid alarm system for monitoring corrosive liquids in a standpipe or vessel.
- A compact, embeddable device that determines changes of stress in prestressed concrete structures.
- A method of controlling the coefficient of friction between graphite surfaces.
- A continuous, low-concentration hydrogen fluoride supply which minimizes the problems associated with loss through adsorption by operating continuously and at a constant pressure.
- A device for removing heavy metal ions from plant brine blowdowns.

The Industrial Cooperation Bulletins are issued on a quarterly basis.

Next Issue

The next issue will be dated Feb. 15. The deadline is Feb. 7.

Horseless carriages restored by local Mobile Steam Society

How startled would you be to see a 1919 Stanley steaming down the turnpike? Well, prepare yourself because you may see just that one day soon if you live in Oak Ridge. The Mobile Steam Society (MSS) of Oak Ridge has set this as one of its major goals.

MSS is incorporated as a non-profit organization for the purpose of promoting and encouraging the development, manufacture and sale of steam-propelled vehicles. The society was organized about four years ago by some people who wanted to have "serious fun" by producing an external combustion engine which would be powered by steam and fueled by kerosene.

The "serious" aspect centers around national concern about air pollution; the "fun" aspect is a little harder to recognize at first glance, unless you are a steam car enthusiast like Eugene C. Hise, of ORNL's Reactor Division. Hise, past-president of MSS, laughingly refers to himself as the only man in Oak Ridge with a steam-powered wheelbarrow - the working components of the engine are transported in and out of his basement on a wheelbarrow. He describes the society's

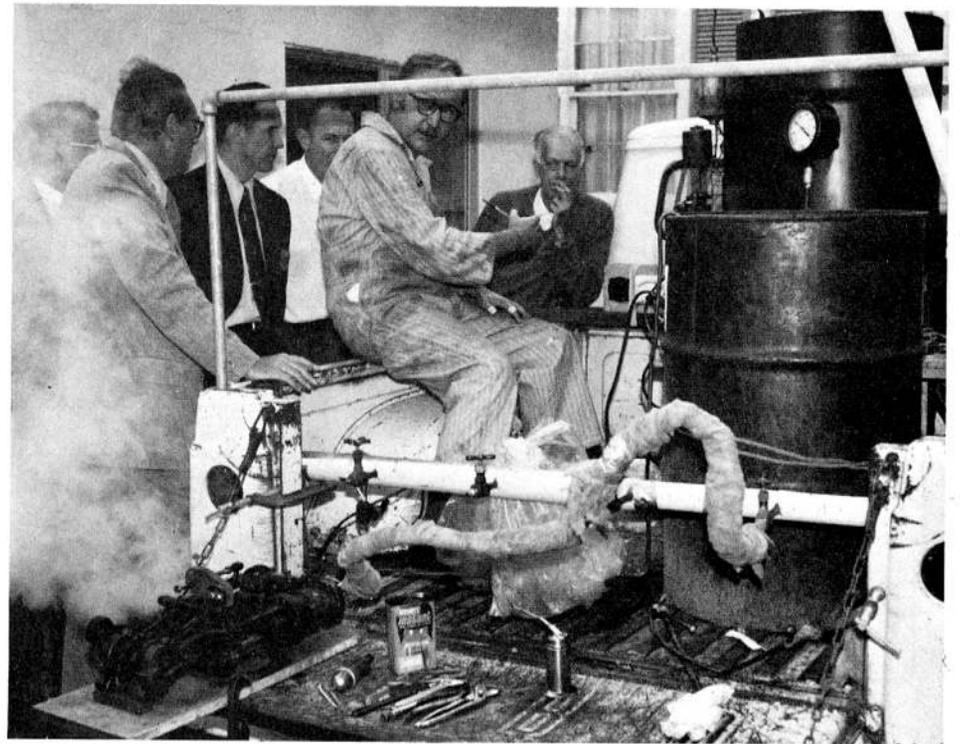
"hobby" as being "a little bit out of hand," but the enthusiasm is contagious.

Design equipment

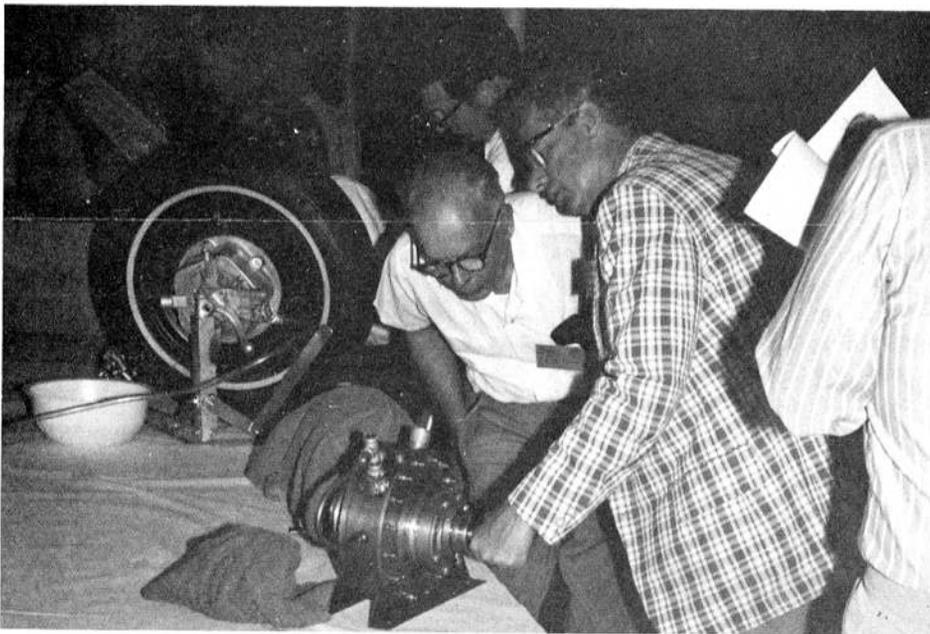
Since its origin, the MSS has developed a boiler which operates at about 800 pounds per square inch, with temperatures of about 750 degrees Fahrenheit (the heat is equivalent to that released in mid-winter by ten average family furnaces). A control system has also been designed by the group. Use of the 1919 Stanley was given by the family of a deceased member of MSS. The car is located at the home of Edward T. Stickle.

The MSS, which has become international (one member is Canadian), publishes a bi-weekly journal and sponsors a student chapter at Rensselaer Polytechnic Institute in Troy, N.Y. A symposium was held last fall in Oak Ridge, sponsored jointly by MSS and the Steam Automobile Club of America, with which the society is affiliated.

The Society meets each Wednesday night. Officers include John W.T. Dabbs (ORNL), President; Thurman M. Deal, Vice President; Eugene C. Hise (ORNL), Recording Secretary; Gerald F. Malling



WHISTLE WHILE YOU WORK - Eugene C. Hise, second from right, explains how the boiler works to attendees at a recent symposium. Looking on is John W. T. Dabbs, second from left, President of the Mobile Steam Society.



EXAMINES ENGINE - Grimes G. Slaughter, center, ORNL, is examining an engine brought in to the Mobile Steam Society's symposium last fall.



MAYOR GETS A TICKET - Al K. Bissell, Y-12er and mayor of Oak Ridge, is passenger in a 1901 White. The owner, Robert A. Gibbs, Greensboro, N.C., receives a citation from an Oak Ridge policeman.

(K-25), Corresponding Secretary; and Charles C. Robinson (ORNL), Treasurer. Other Union Carbide employees actively involved are Sydney J. Ball (ORNL), Robert K. Edwards (Y-12), William H. Fleischman (Y-12), Jerry D. Hutchins (ORNL), John G. Million (K-25), Grimes G. Slaughter (ORNL), Edward T. Stickle (Y-12), and John L. Wantland (ORNL).

Everyone welcome

Membership at present consists mostly of craftsmen, engineers and scientists, but as Hise is quick to emphasize, "there is a

place for everyone in the organization." Typists, librarians, machinists, machine designers, editors, pipefitters, and other skilled and unskilled workers are welcome. All labor is voluntary.

So Carbiders, here is your chance to do your bit toward helping fight air pollution while having fun at the same time. Who knows, you may get to take the first cruise down the turnpike in a 1919 Stanley.

Foreign travel

Audrey S. Niyogi and David J. Hoffman will deliver a paper "The use of dinucleoside monophosphates in the elucidation of RNA initiation sequences during T4 DNA transcription," in Calcutta, India this month. They will attend the Symposium on Control of Transcription, February 12-15.

Sankar Mitra will also attend the Bose Institute Symposium and will give a paper, "Transcriptional control of M13 phage DNA synthesis."

PCC offers courses in mid-winter term

The Kentucky Education Television Network, through the auspices of the Kentucky Training and Development Foundation, has announced its 1973 mid-winter schedule of continuing education courses to be offered at the Paducah Community College. These courses are aimed at employees of industry, government and business in Kentucky.

Each course consists of 30 minutes of television presentation of subject matter and approximately one and one-half hours of discussion conducted by a conference leader supplied by the Community College.

The mid-winter scheduling is as follows:

The Business of Writing - 8 weeks. Starting dates: Monday, February 12, 5:30 p.m. CST. Repeat Wednesday, February 14, 5:30 p.m. CST. Can be previewed on Channel 21 UHF January 29 and February 5 at 5:30 p.m. CST.

You The Supervisor - 8 weeks. Starting dates: February 13, 6:00 p.m. CST. Can be previewed on Channel 21, Tuesday January 5 and February 6, 6:00 p.m. CST.

Speed Reading - 12 weeks, Starting date: Wednesday, February 14, 6:00 p.m. Can be previewed on Channel 21, Wednesday January 31 and Wednesday, February 7, 6:00 p.m. CST.

Enrollment can be made at the registrar's office, Paducah Community College, or at the first meeting of the course. These are audit courses only. College credit will not be given for the instruction.

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UNION CARBIDE

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NUCLEAR DIVISION

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Harman, Cooney, Robinson, West Wright, Mrs. Walker promoted

Six recent promotions are announced at Oak Ridge Gaseous Diffusion Plant. William D. Harman III has been named a shift foreman; Walter H. Cooney, a material planner; John E. Robinson, a planner and estimator; Earl West, a planner and estimator; Fred A. Wright, a roads and grounds foreman; and Josephine H. Walker, a custodial foreman.

William D. Harman III, a native of Oak Ridge, came with ORGDP early last year, after working as a draftsman and computer programmer at Y-12. He has a B.S. degree in business administration from The University of Tennessee.

He is married to the former Jane Brown, and they have two children. The Harmans live at 105 Georgia Avenue, Oak Ridge. His interests center around construction crafts, automobile mechanics and travelling. He also collects tropical fish.

Walter H. Cooney, a native of Keesee, Va., has been with Union Carbide two years. Before coming to ORGDP, he followed construction work as a heavy equipment operator.

He and Mrs. Cooney live at 515 Highland Street, Kingston. They have three children.

John E. Robinson, born in Harrogate, has been with Union Carbide since 1967. He served four years in the U.S. Navy before coming to ORGDP, and is currently doing undergraduate work at The University of Tennessee.

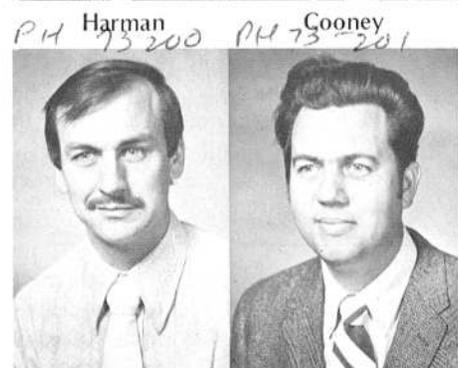
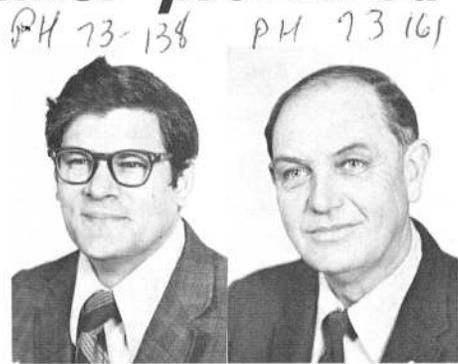
He lives at Route 5, Clinton. Mrs. Robinson is the former Vickie Givens, and the couple has two children.

He likes bowling, golfing and tennis.

Earl West, a native of Claiborne County, came to ORGDP in 1970. He formerly worked with American Enka Corporation, in Morristown.

He and Mrs. West (the former Mary E. Huxley) live at 5717 Wassman Road, Knoxville. They have two sons. Scouting and auto mechanics occupy much of his spare time.

Fred A. Wright was born in Clinton, where he now lives at Route 4. He has been at ORGDP two years.



Wright

Mrs. Walker

Mrs. Wright is the former Joyce Bradshaw. They have two daughters. Basketball, hunting and fishing are his favorite avocations.

Josephine (Harris) Walker, a native of Knoxville, has been with Union Carbide two years. She is a graduate of the Cooper Institute, Knoxville, as well as the Host of America Management School.

She presently lives at Route 2, Louisville, and has two sons. Bowling is her favorite sport, and church activities and her flower garden club also keep her busy.

N. L. Beeler named chairman for Anderson United Fund

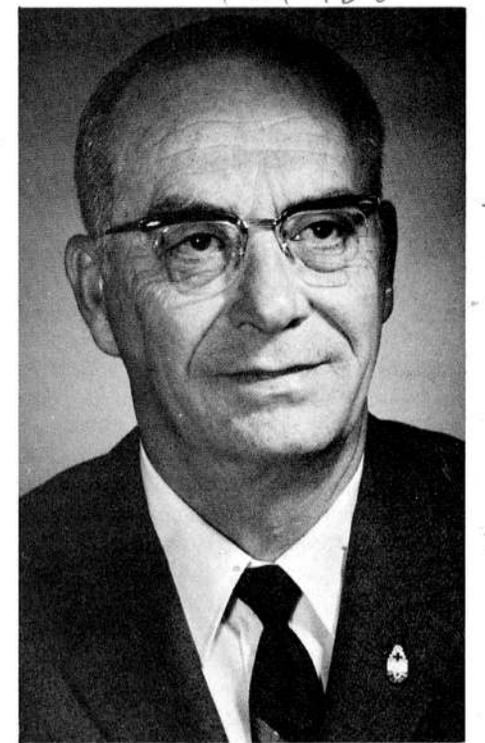
Norman L. Beeler, Oak Ridge National Laboratory's Plant and Equipment Division, has been named president of the board of directors for the Anderson County United Fund. Beeler, who is also vice president of the Atomic Trades and Labor Council, succeeds Ted Shapiro.

Beeler, a native of Rutledge, came to ORNL in 1945. He is a member of Local 718 of the United Association of Plumbers and Pipefitters, and lives at 695 Robertsville Road. Mrs. Beeler is the former Ann Caldwell, and the couple has three daughters and one son.

He has been active in the United Fund for four years, serving most recently on the budget committee. He is on the board of the Oak Ridge Boys Club and is active in the Mental Health Clinic. Beeler is also a member of Oak Ridge's personnel advisory board.

Other Union Carbide men serving on the board include John Arndt, ORGDP; Harwell G. Smith, Y-12; L.O. Gilpatrick, ORNL; as well as Shapiro.

The Anderson County United Fund administers funds to many service agencies in the area, among which are the Scarborough Day Care Center, the Young Women's Christian Association, the Young Men's Christian Association, Camp Fire Girls, Boys Club, U.S.O., Anderson Green Thumb Project, Anderson County Rescue Squad, Youth Haven, the Florence Crittenton Agency, the Holiday Bureau, the Planned Parenthood Association, Mental Health Center, Arthritis Clinic of Anderson and Roane Counties, the Anderson County Sheltered Workshop, the Children's Welfare and Distressed Families Committee, the Anderson



Norman L. Beeler

County Health Council, the County Association for the Retarded, the Boy Scouts, Girl Scouts and the Daniel Arthur Rehabilitation Center. In addition, the United Way drive is coordinated with the drive each year in cooperation with two American Red Cross chapters in the county. More than a third of a million dollars is administered by the board of directors of the United Fund.

James F. Young, president of Hamilton First National Bank, Oak Ridge, will be drive chairman for 1973.

HOLIDAY FOR PADUCAH

Monday, February 12, is a holiday for Paducah employees of Union Carbide, as Kentuckians celebrate the birthdate of Abraham Lincoln.

Oak Ridge facilities will observe Washington's birthday, Monday, February 19, as an official holiday.

These holidays are the second of 10 that Nuclear Division employees will enjoy in 1973.

Bloodmobile coming

Some 2,658,100 Americans gave blood through the American Red Cross last fiscal year. And among these were many Nuclear Division employees. The Red Cross bloodmobile will return to this area next week.

February 7 and 8 are the announced dates, with hours on Wednesday from 4 until 10 p.m.; and on Thursday, between 11 a.m. and 5 p.m.

The quota for these two visits is set at 432 pints. The Armory on the Oak Ridge Turnpike is the location.

See you there.

Environment study group visits ORNL

A group of 40 high school and college students and their teachers visited Oak Ridge National Laboratory recently as part of a workshop on "Energy and the Environment," being held at Meharry Medical College in Nashville. Participating in the workshop are Vanderbilt University, Tennessee State University, Peabody College, Fisk University and Nashville Pearl High School.

The group toured ORNL's Walker Branch Watershed Facilities (where water samples are taken and analyzed), the High Flux Isotope Reactor, and the Transuranium Facilities. Floyd Culler, Acting Director of ORNL, briefed the group on operations of the laboratory.



TOUR ORNL FACILITIES — Emory D. Collins, Chemical Technology Division, explains instrumentation in the Transuranium Processing Plant at the Oak Ridge National Laboratory. Part of a group of students and teachers are seen visiting the Laboratory recently as participants in a workshop on "Energy and Environment."



Y-12 PLANT

CAR POOL member from Fountain City, northeast section of Knoxville, to any Portal, straight day. F.E. Clevenger, plant phone 3-5981, home phone Knoxville 522-7393.

CAR POOL member from vicinity of Victor Drive, Norwood area, to East, North or Central Portal, straight day. C.A. Crutchfield, plant phone 3-5662, home phone Knoxville 688-4906.

RIDE from Christenberry High area, Knoxville, to West Portal, straight day. Alec, plant phone 3-5504, home phone Knoxville 523-6081.

ORGDP

RIDE from Cumberland Estates shopping area, Knoxville, Oak Ridge Highway, to Portal 4, 8 to 4:30 shift. Mike Dawley, plant phone 3-3334, home phone Knoxville 588-7195.

RIDE from Ogontz Lane area, Oak Ridge to main portal, day shift. Pearl Coffey, plant phone 3-1914, home phone Oak Ridge 483-1656.

ORNL

JOIN car pool from University of Tennessee area to East, West or South Portal, either shift. R.L. Cox, plant phone 3-6698.

"Little space is given in our history books to those who were not self-starters."

... Lansing P. Shields

PADUCAH PLANT VALENTINE DANCE

The Paducah Plant is setting final plans for a big Valentine dance for Friday, February 9. The Rebel Rousers will provide music for the affair, as well as Don Baker. The place will be the Convention Center. Tickets in advance are \$1.50, \$2 at the door. So get your favorite valentine lined up now, and come on out to the big dance.

Paducah promotes Duncan to captain



Capt. Duncan

Stanley Duncan has been named Fire and Guard Captain at the Paducah Gaseous Diffusion Plant.

Duncan has been with Union Carbide since August 20, 1951, in the Plant Protection Department of the Industrial Relations Division.

A veteran of the U.S. Navy, serving during World War II, Duncan lives at 220 Albany St., Paducah. He and his wife Peggy have four children, Gary, Janice, Debbie and Keith.

In his spare time, he likes to hunt and fish.

Social security data available in Paducah

A pamphlet entitled "Your 1973 Social Security Deductions" distributed by the Department of Health, Education and Welfare is available to Paducah Plant employees in the Benefits Plans Office, Room 150, C-100 Bldg.

This information covers such subjects as "Your 1973 Social Security Deductions", "New Benefits" and "What Your Social Security Dollar Pays For". There have been recent changes in Medicare for the disabled and this is explained in detail.

Nuclear Division deaths

Edgar A. Guettner, materials foreman in Y-12 Stores Department, died January 21 in the Oak Ridge Hospital.



Mr. Guettner

A native of Kingston, Mr. Guettner came to Y-12 early in 1945 after serving three years in the U.S. Army.

Survivors include his wife, Mrs. Faye Patterson Guettner; daughter, Mrs. Penny Tripp; a sister and five brothers.

Funeral services were held at the Click Funeral Chapel, Lenoir City, with the Rev. J.E. Rush and Rev. J.L. Ward officiating. Burial was in the Roane Memorial Gardens.

Robert D. Jones, Y-12's Research Services, died January 13 at the Lake City Hospital. He was a member and deacon of the Fraterville Baptist Church where he also taught Sunday School, and was a member of the Coal Creek Masonic Lodge.



Mr. Jones

Mr. Jones came with Union Carbide in 1953. He was a native of the Lake City area.

Survivors include his wife, Mrs. Margaret Fox Jones, Route 2, Lake City; sons, Charles W., James R. and R.L.

Jones; daughter, Mrs. Donna Faye Elmore; parents, Mr. and Mrs. Robert Jones; a brother and a sister and four grandchildren.

Funeral services were held at the Fraterville Baptist Church with the Rev. Bill Lamb and Edwin Phillips officiating. Burial was in the Tennessee Valley Memory Gardens.

William D. Blevins, a foreman in Y-12's Electric and Electronics Department, died January 18 in a Knoxville hospital.



Mr. Blevins

A native of Johnson City, Mr. Blevins joined Union Carbide in 1951. He was a veteran of the U.S. Army, serving during World War II.

Survivors include his wife, Mrs. Nell Moyers Blevins, 3225 Kenilworth Drive, Knoxville; daughters, Mrs. J.B. Catlett and Mrs. Joseph Lezzi; his mother, Mrs. Minnie Blevins; four sisters; two brothers; and three grandchildren.

Funeral services were held at Rose's Chapel, Knoxville, with the Rev. Jeff Brooks officiating. Burial followed in the Greenwood Cemetery.

Walton B. Thompson, Y-12's Physical Testing, died January 17 at the Oak Ridge Hospital.

A native of McKenzie, Mr. Thompson was a graduate of Bethel College. He first came to Y-12 in 1944 and transferred to Paducah in 1952, returning to Y-12 in 1963.

Survivors include his wife, Mrs. Lucile Thompson, 124 East Wadsworth Circle, Oak Ridge; a daughter, Janita Kay; his mother and father, Mr. and Mrs. Chloe Thompson; a sister and a brother.

Masonic services were held at Martin's Funeral Home and private services were held before the burial in Oak Ridge Memorial Park.

Garland W. Wade, Operations Division at Oak Ridge Gaseous Diffusion Plant, died January 18 in a boating accident on Watts Bar Lake.



Mr. Wade

Survivors include his wife Mrs. Annette Melton Wade, West Ridgecrest Drive, Kingston; a son, Jeffrey, and a daughter Mrs. Brenda Heaton; a grandson; five brothers and five sisters.

Funeral services were held at the Kyker Funeral Chapel, Kingston, with the Rev. David Sharp officiating. Burial was in Kingston Memorial Gardens.

RETIRED ORGDP CARPENTER

William P. Moore, Route 3, Oliver Springs, died January 23 in the Oak Ridge Hospital. Mr. Moore retired from the Oak Ridge Gaseous Diffusion Plant in 1966, after working more than 24 years. He was a native of Cleveland. Funeral services were held at the Mt. Pisgah Baptist Church, Oliver Springs, with the Rev. Milford Ely officiating. Burial was in the Macedonia Cemetery, Cleveland.

ADDRESS CHANGE?

Have you moved? Make sure Personnel Records has your correct address.



COLLECT PAPER — Boy Scout Troop 1 of the Grace Episcopal Church in Paducah recently collected more than 100 pounds of paper for the Mental Health Center. Shown above is most of the Troop with the results of their efforts. Carbide sons in the Troop are Bobby Turok, Blake Ross, David Wrinkle and Carl Wenzel. Paducah Plant employees C.W. Turon and Bruce Wrinkle are chairman and member, respectively, of the church's scouting committee.



IN FINALS — Malissa Wilkins is one of the 12 semifinalists in the Miss Murray State Scholarship Pageant. A music major, she is the daughter of James Wilkins, Paducah Cascade Operations. Miss Wilkins will represent Woods Hall to be held at MSU soon. The Wilkinses live at 250 Pepper Lane, Paducah.

DIVISION Retirees



Breeding

Davis

Two Oak Ridge Gaseous Diffusion Plant men retire at the end of this month.

Alonzo H. Breeding, Cascade Maintenance, came with Union Carbide in 1946. He retires to his Route 3, Crossville home.

Luther L. Davis, also in the Maintenance Division, joined Union Carbide in 1945. He lives at 105 Viola Road, Oak Ridge.



Cole

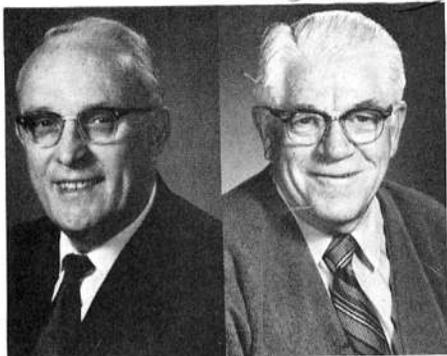
Whitson

Hubert N. Cole of ORNL's Plant and Equipment Division has retired. Cole, originally from Bryceville, had been employed by Union Carbide since August 16, 1947.

Cole plans to do lots of boating and fishing and "tinkering" with electronic things. He and his wife, Lola, live at 4513 Upchurch Road, Knoxville.

Thurman C. Whitson of ORNL's Health Division has retired. He came to work for Union Carbide on June 3, 1946.

The Whitson home is at 106 E. Pasadena Road, Oak Ridge.



Fair

Reid

William M. Fair, Plant and Equipment millwright, has retired after 26 years of service with Union Carbide.

Fair, who worked at ORNL, is looking forward to being able to do more gardening and some supply work. He and his wife, Grace, plan to take a month's vacation in Florida very soon and a trip to Hawaii later in the year.

The Fairs have a daughter, Juanita, and two sons, Leon (ORNL Traffic Department) and Bill (Plant and Equipment Division at ORNL). The Fair home is in Karns Community, Knoxville.

Roscoe Reid, a technician in ORNL's Reactor Division, has retired after 29

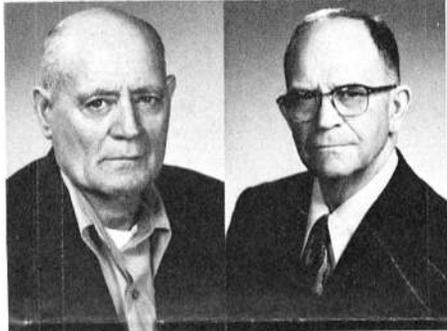
years of service with Union Carbide. He worked in Chemical Operations at Y-12 before coming to ORNL in 1953.

Reid enjoys gardening and playing golf and plans to do more of both now that he is retired. He and his wife, Glenda, also plan to do some traveling. They reside at 8117 River Drive, Oak Ridge.

Sam Gallaher, Building Services Department; Howard L. Hay, 9215 Rolling Mill, James H. Oldham, Graphite Shop; and Paul D. Quinley, Chemical Services, retire from Y-12 next week; and Lonnie R. Hall, Research Services, has elected an early retirement.

Gallaher, a native of Harriman, came with Union Carbide April 19, 1958. He formerly worked at ORGDP, and lives now in Harriman.

Lonnie R. Hall, born in Wise County, Virginia, worked with the Banner Fuel Company, Cranes Nest, Va., before coming here January 29, 1944. He lives at 209 Fourth Street, Kingston.



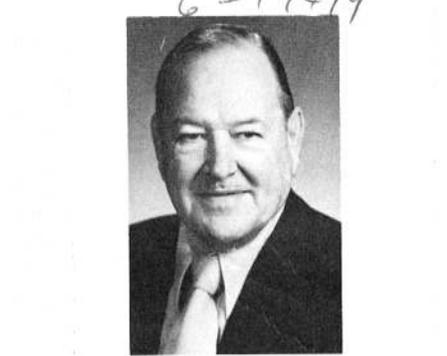
Gallaher

Hall



Hay

Oldham



Quinley

Howard L. Hay, a native of Friendship, lives at 102 Newkirk Lane, Oak Ridge. He came to Y-12 January 17, 1947.

James H. Oldham was born in Clark County, Ga., and came with Union Carbide June 10, 1951. He lives at 103 Lawton Road, Oak Ridge.

Paul D. Quinley was born in Jonesville, Va. He worked with Tennessee Eastman here during the war and returned April 27, 1955. He also worked with Johns-Manville.

A process foreman at the time of his retirement, he lives at 102 Waddell Place, Oak Ridge.

Jasny son named scholar to attend D.C. workshop



Thomas P. Jasny

Thomas P. Jasny, son of Mr. and Mrs. George R. Jasny, 106 Dixie Lane, Oak Ridge, has been selected to attend a Washington Congressional Workshop as a Union Carbide Scholar.

Jasny was recommended for the honor by the faculty of the Oak Ridge High School. His nomination was supported by Union Carbide's Nuclear Division.

As a recipient of the honor, Jasny will participate in a seminar April 8-15. Participants are housed at Mount Vernon Junior College where most of the seminar sessions will be conducted.

The curriculum for the seminar will include classes, discussions with members of Congress, attendance at House and Senate Chamber sessions and committee meetings, and talks by Cabinet members and other national leaders, both in and out of government.

Jasny, a senior at Oak Ridge High School, is President of the Senior class; Vice President of the National Honor Society; and President of the International Relations Club. He has also served as a teacher's aide, and is a member of the high school's tennis and soccer teams. In addition, he has served on the Oak Ridge Teen Board, is a member of the Boy Scouts of America, and has taught tennis as part of the Boys' Club and YMCA programs.

As a Union Carbide Scholar, the full cost of Jasny's participation in the Congressional Seminar program is being defrayed by Union Carbide Corporation.

The young scholar's father is Director of Engineering for the Nuclear Division.

Free tax assistance coming from VITA

The Anderson County Voluntary Action Center is sponsoring the Volunteer Income Tax Assistance Program (VITA) this year. Begun by the International Revenue Service, this program enables trained volunteers to assist taxpayers in preparing their returns free of charge.

Parties interested in becoming volunteers should send a card to Box 3372, Oak Ridge, Tenn. 37830, or they may call ACVAC, Oak Ridge telephone 483-1077, between 9 and 11 a.m. Monday through Thursday. In addition, those people interested in receiving assistance should also contact ACVAC.

"The worker who watches the clock doesn't need to worry about his future -- he hasn't any."

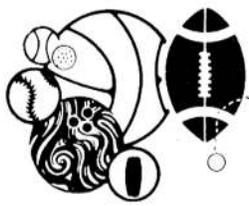
'Camelot' next week

The Oak Ridge High School Masquers, band and chorus will present Lerner and Loew's smash musical hit "Camelot" next week.

"Camelot" will be presented at the high school auditorium, February 9 and 10 at 8 p.m. and on February 11 at 2:30 p.m. Admission is \$2 for adults, \$1 for students.



RECEIVES ART DEGREE - Larry H. Bohanan, center, Y-12 Graphic Arts Group, recently received his certificate for completion of the Famous Artists course. Presenting the certificate is Fred Clark, supervisor in the group, himself a recent graduate from FAS, while Martin Broders, supervisor of the Technical Information Services Department, looks on at the left.



RECREATIONOTES

Bowlers ready All-Carbide tournament in Oak Ridge

Nuclear Division bowlers in Oak Ridge are laying grounds for the big All Carbide Bowling Tournament set for the last week-end in March and the first week-end in April.

The actual dates of the four-day event will be March 31, April 1 and 7 and 8. The contest will be staged at Ark Lanes, Oak Ridge.

Eligible bowlers are those who may participate in Union Carbide activities, employees, spouses, retirees and employees of approved affiliated contractors... plus sanctioned bowlers in ABC and WIBC leagues. (You must have bowled at least 21 games in the 1971-1972 season, or the current season to be eligible for a handicap.)

Participants are limited to one entry in singles and doubles, as well as mixed doubles. Bowlers may, however, bowl on more than one team, but not more than three players may place in more than one prize list for position standings in winnings.

\$3 entry fee

Entry fees are \$3 per person per event, and the prize money will be returned 100 percent to the bowlers. Entries must be in, accompanied by the necessary funds, by 4:30 p.m., Friday, March 16. A 50 cent fee will be assigned for All Events competition.

Prize money will be on a handicap basis only. There will also be trophies for scratch and handicap bowling.

Women's, men's teams

Men's teams shall consist of five men, three of which must be members of an existing team in an ABC sanction league, or chosen so that the aggregate scratch average of the team does not exceed 850 pins per game. Women's teams must contain five women, with at least three of



BOWLING FORM — Carolyn Miller, ORNL, will be one of the competitors in the upcoming Carbide Bowling Tournament, set for March 31, April 1, 7 and 8 at Ark Lanes, Oak Ridge.

them from an existing team in a WIBC league, or chosen so that the aggregate scratch average of the team does not exceed 700 pins per game.

Averages may be obtained from league secretaries. If a person is bowling in two leagues, he must use his highest league average. These averages must accompany entries.

Y-12er Bill Hackett is acting as tournament director, and the committee is comprised of Walt Joest, Y-12; Judd Kahn, ORNL; and Jim Corn, ORGDP.



12 POUNDS OF FIGHT — Mike Estep, Y-12's Mechanical Engineering, helps prove the theory about East Tennessee waters being great for largemouth bass fishing. He recently pulled these two denizens from Watts Bar Lake. The Recreation Department urges all Nuclear Division employees and their families to enter their near-trophy specimens in the fishing rodeo. Entry blanks are at the portals and cafeterias of the three Oak Ridge plants.

CARBIDE BASKETBALL

Sparked by Bud Defenderfer, the GBU's continue their crusade in the A League, downing all comers thus far. Defenderfer doused 22 big points through the basket recently against the Springers.

Atomic League standings:

Team	W	L
GBU's	6	0
CC 69ers	4	1
Pistols	3	2
Springers	4	3
Bottlenecks	2	2
K-25 Trojans	3	3
A-5 Bucks	1	4
Sharpshooters	1	4
Isomets	0	5

With big Tyrone Thomas playing the lead role, the TAT Playmakers dominate the Nuclear League thus far.

Nuclear League standings:

Team	W	L
TAT Playmakers	4	0
Aardvarks	5	1
Bombers	4	1
Grundy Express	3	3
Abends	2	3
Environmental Sciences	2	3
X-10 Cafeteria	2	3
Biology	1	3
Butterfingers	1	6

ORGDP BOWLING

The Mix-Ups and Amps share the lead in the Wednesday night league, one point ahead of the Pirates. Charlie Johnson recently rolled a 702 handicap series in hot league action.

The All Stars still out-class opponents in the Tuesday league, a full 15 and one-half points ahead of the City Slickers... who are a full 50 points out in front of the Double X team.

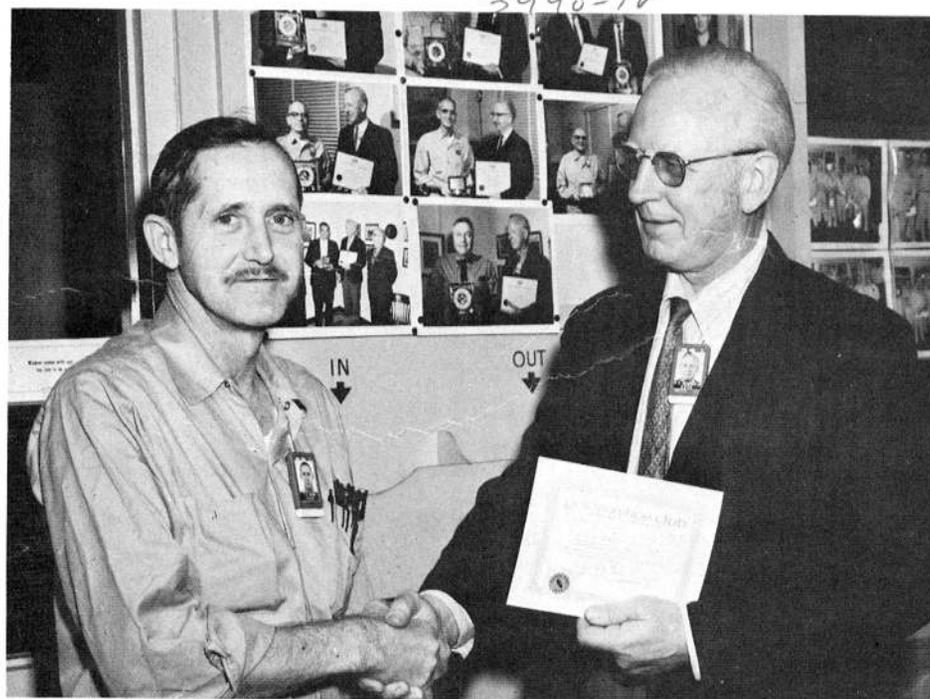
Sue Davis paced the Women's League recently, rolling games of 214 scratch, 253 handicap; series of 538 and 655! The Pay-Offs claim top berth currently with seven points in the lead, ahead of the Up-Towners.

HIGH POWER RIFLE LEAGUE

The first match of the All Carbide High Power Rifle League will be held March 17, at the Oak Ridge Sportsmen's Association. Subsequent matches are set for April 7, May 13, June 2, June 23, and July 14. Any employee of Union Carbide is eligible to shoot in these matches. Interested firers may obtain further details from the Nuclear Division Recreation Director or the league director, at extension 3-6095.

ALL CARBIDE FISHING RODEO NOW ON

Nuclear Division employees in the Oak Ridge area, their families, and all retirees may participate in the fishing rodeo for the first half of 1973. Entry forms are available from Recreation. Photos are not required, as they were in the past. But entry forms, with verifications, must be used.



GOLDEN SHOW MEMBER — Thomas E. Rush, a lead burner in the Plant and Equipment Division at ORNL, is presented his membership in the Golden Show Club by Division Superintendent Harry E. Seagren. Rush recently dropped a 95 pound lead sleeve on his foot, causing a bruise, but no serious damage because of his safety shoes. Rush is the first member of his craft to be admitted to the club and the 23rd member of P&E to be awarded membership in the distinct club.

Y-12 BOWLING

The Rollmasters, Sunflowers and Mini-strikes all kept perfect records the first night of rolling in the C Bowling League recently. Travis Craig rolled a 246 scratch game early in January to thaw out the alleys.

The Bumpers and Markers have perfect records early in the Classic standings... the Bumpers with eight wins, the Markers with four. The Rojo's Forrester rolled a 255 single game recently... pushed to a 292 handicap single!

The Mixed League turns the lead of early in the season to the Alley Cats, with Bill Patrick the star of the show thus far. He rolled a 230 single game, 587 series, recently, both scratch-counting.

ORNL BOWLING

The Woodchoppers and Gutterfinks are tied for top-spot in the E Bowling League, three points ahead of the Mets. The Dodads' Carr recently rolled a 327 scratch game.

The C League sees the Damagers out front, miles ahead of the Knuckleheads. Gino Zanolli, Pinheads, recently posted a 275 handicap single.

The A League sees the Good Guys only one point ahead of the Misfits. J. Shoemaker recently rolled a 227 scratch game.

The Ladies League began action with the Pick-Ups picking up four points to grab an early lead.

The Medicine Chest

(Editor's Note: Dr. Lincoln alternates his regular column with "The Medicine Chest," where he answers questions from employees concerning their 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 20, or call the news editor in your plant, and give him your question on the telephone.)

By T. A. Lincoln, M.D.

QUESTION: "I am subject to kidney stones. One doctor tells me to stay away from a high calcium diet. Another says to avoid highly acetic foods or drinks. Do you prescribe a diet for 'stone-makers'?"

ANSWER: Before one considers diet manipulation as a way to prevent stone formation, he needs to know why and what chemical type of stones he develops. If a person has a chronic infection or a metabolic disorder, they must first be treated. If a medicine taken to control a chronic disease such as gout or hypertension is a factor, it may need to be changed.

If one forms uric acid stones, there would be little to be gained by limiting calcium intake. A low purine diet which reduces uric acid formation is necessary. A low oxalate diet often helps oxalate stone formers. Decreasing the intake of calcium is often prescribed but it usually has to be combined with reduction in the other chemicals. In all cases large quantities of water, at least 7-10 glasses, should be drunk every day. Sometimes medication needs to be taken to keep the urine alkaline or acid, depending on the type of stone. One obviously needs good advice based on a careful urological study. No general diet for all "stone formers" makes much sense. Reducing the calcium intake is a "shot in the dark" and might help if you know nothing about your stones, but don't expect too much.

QUESTION: "What is the true story on the trace elements that all health food advocates tell us we're not getting these days in regular food?"

ANSWER: The trace elements of greatest interest are iron, iodine, fluorine, cobalt, copper, zinc, chromium, selenium, manganese, molybdenum, and cadmium. Iron is necessary for the formation of hemoglobin and iodine for thyroxine, the thyroid hormone. Fluorine (as the fluoride) promotes the development of teeth more resistant to cavities. It is an almost ubiquitous element so it is difficult to determine if there is an "essential" physiological need for it. The addition of fluoride to drinking water to a concentration of 1.0 part per million is considered by most experts to be a safe and practical public health measure.

Anemias are associated with copper and cobalt deficiencies. Chromium is a potentiator of insulin and some maturity onset diabetics will show improvement in their glucose tolerance tests with chromium supplementation in their diet. Sele-

nium deficiency associated with severe protein malnutrition or alcoholism may cause liver damage. Manganese and molybdenum deficiency diseases have not been found in man but are well known in animals. Cadmium deficiency is probably not significant but excess in the diet, drinking water or inhalation from air pollution may possibly be a factor in causing high blood pressure in susceptible persons. The story of zinc is so fascinating that it will be the subject of a full article later.

It is doubtful if deficiencies of these trace elements occur in people of average health eating a reasonably adequate diet. Deficiencies occur most often in people who have chronic diseases or alcoholism which interfere with adequate nutrition.

QUESTION: "Why can't people with terminal illnesses easily get treatment with experimental drugs if they request the treatment and are willing to take the consequences?"

ANSWER: At first it may appear completely sensible to allow any patient with a terminal illness to request his physician to use an experimental drug which he may have read about. However, because of a few past abuses, rigid requirements for human experimentation have been established. The basic guidelines are the Declaration of Helsinki, the Nuremberg Code, and the Institutional Guide to DHEW policy on Protection of Human Subjects. For all institutions receiving support from the federal government, all experiments must be reviewed by a committee consisting of scientific peers and nonmedical citizens, some of which must come from outside the institution. The committee must carefully weigh the known or foreseeable risks, the probable benefits to the patient, and the probable benefits to humanity as a result of his participation in the study. It also reviews the scientific merit of the experiment and whether the patient will be adequately informed of the potential hazards before he decides whether or not to take the treatment. He must have the option of withdrawing from the experiment whenever he chooses. Before a physician is allowed to use an experimental drug, he also has to follow the plan for its evaluation, contained in the Investigative New Drug Application to the Food & Drug Administration. Unless the physician has been approved for participation, he cannot get the drug. The best one can do is to put himself under the care of someone, usually associated with a research institution, who has all the necessary approvals. This physician then must decide whether to include the patient in his study. Last ditch "heroics" with experimental drugs are only possible under carefully controlled circumstances.



AICHE NAMES OFFICERS — Seated from left are John P. Sanders, Howard A. McLain, George H. Llewellyn, Charles D. Scott and R. Bert Schappel. Standing are James W. Snider, Thomas W. Pickel, Kent A. Williams, Mike J. Stephenson and J. Robert Hightower Jr.

Several Carbiders will serve as officers for local AICHE

The Knoxville-Oak Ridge Section of the American Institute of Chemical Engineers held their installation banquet January 13 at the Hyatt-Regency in Knoxville. A total of 72 members and wives attended the program.

The retiring section chairman, R. Bert Schappel, Oak Ridge Gaseous Diffusion Plant, presented a section chairman's lapel pin to incoming chairman John P. Sanders, Oak Ridge National Laboratory employee in Y-12. A certificate of appreciation from the national AICHE was presented to Schappel by Sanders.

Other officers installed were J. Robert Hightower Jr., ORNL, as chairman-elect; Kent A. Williams, ORGDP, secretary; Mike J. Stephenson, ORGDP, treasurer. Two newly-elected directors are Charles D. Scott, ORNL, and Tom W. Pickel, also

of ORNL. They will serve on two-year terms. Howard A. McLain, ORNL, and George H. Llewellyn, ORNL, as well as Schappel will serve as directors for one year.

Named to executive committee posts which governs the local section's activities were James W. Snider, ORNL, career guidance chairman; John H. Holmes, ORNL, professional development chairman; Ronald W. Glass, ORNL, public relations chairman; and W. Eugene Rooks, ORGDP, awards chairman. Charles W. Cunningham, ORNL, who was membership chairman last year will serve again at that post. Under his chairing, the membership climbed to a record 157 members. Thomas Pickel will serve as coordinating chairman for the Oak Ridge Engineers' Week activities.



DECEMBER WEDDING — Mr. and Mrs. Steve E. Turnbill are seen after their December 31 wedding at the Ridgeview Baptist Church, Knoxville. The bride, the former Joan Elaine Lay, is the daughter of Mr. and Mrs. Fletcher P. Lay, Clinton; and the bridegroom is the son of Mrs. Charles E. Turnbill and the late Mr. Turnbill. He is employed in Y-12's Property Department.



DRAMA ROLE — Henry Everson, of ORNL's Instrumentation and Controls Division, recently appeared in the Oak Ridge Playhouse production of William Hanley's drama "Slow Dance on the Killing Ground." Henry portrayed Randall, a puzzling young man with a brilliant mind but trouble on his heels.

COMPANY SERVICE 20-25-30

ORGDP
30 YEARS



Flanders

I.C. "Sam" Flanders, ORGDP's Separations Systems, celebrates 30 years with Union Carbide today. He joined the corporation at the SAM Laboratories at Columbia, and came to Oak Ridge when the gaseous diffusion plant was begun. A native of New England, he is a graduate of the University of New Hampshire. He lives at Concord.

ORNL
30 YEARS



Hipshire

Oakes

Floyd Hipshire joined Union Carbide on February 13, 1943. A guard-lieutenant in ORNL's Laboratory Protection Division, Hipshire is a native of Hamblen County. He enjoys gardening and fishing. He and his wife, Annie (who recently retired as an ORNL nurse), live in Karns Community, Knoxville.

Raymon E. Oakes started work at ORNL on February 8, 1943. He has the distinction of being the first employee to complete 30 years of continuous service at the X-10 site. A maintenance foreman in Plant and Equipment, Oakes is originally from Kokomo, Ind. He is a member of the National Association of Clock and Watch Collectors. Oakes and Ann, his wife, live in Karns Community, Knoxville.

CALENDAR of EVENTS

TECHNICAL February 7

Chemical Technology Division Seminar: "Clean Fuel from Coal," J.M. Holmes and R. Salmon. Central Auditorium, Building 4500N, 3 p.m.

February 13

University of Tennessee Department of Chemistry Seminar: "Spectroscopy of van der Waals Molecules," Prof. George Ewing, Indiana University. 414 Buehler Hall, UT Campus, 4 p.m.

COMMUNITY February 4

The Oak Ridge branch of American Association of University Women presents "I Love You, Alice B. Toklas," a 1968 movie starring Peter Sellers. Jefferson Junior High School, 8 p.m. Admission: adults \$1.25; students (17 and under) \$.75.

February 8 and 12

Tryouts for the Oak Ridge Playhouse production "Indians." Large number of men of all ages and a few women 25 or older are needed. Oak Ridge Playhouse, 7:30 p.m.

QUESTION BOX

If you would like to submit a question to the Nuclear Division News Question Box, be our guest. Questions are sent to the proper authorities for accurate answers.

Just drop your question in the interplant mail to Question Box, c/o Nuclear Division News, Stop 20, Building 9704-2, Y-12. You don't have to sign your name.

CARBIDE VOLLEYBALL

Four teams still maintain perfect records in the Carbide Volleyball League, with the Hawks out front because they have played three more games than the other top-seeded teams.

League standings:

Team	W	L
The Hawks	9	0
The Committee	6	0
The Gang	6	0
The Pack	6	0
Electric Bananas	5	1
Taxi Squad	5	1
Y-12 Old Men	4	2
Old Men	3	3
Spikers	3	3
Anti-Quarks	4	5
Jokers	4	5
Raiders	4	5
Benthics	2	4
Over-the-hill gang	2	4
Playmakers	2	4
Radphys	3	6
Bombers	1	5
Quarks	1	5
Sloths	1	5
Bawlers	1	8
The Phoenix	0	6

RETIRED Y-12 MACHINIST

Denton L. Bowers, retired Y-12 machinist, died January 17. Mr. Bowers was employed in Y-12 from 1951 until his medical retirement in 1967. Funeral services were held at the Mount Pleasant Methodist Church, Mosheim.

25 YEARS

John H. Pashley and Robert L. Higgins.

20 YEARS

Carl E. Leinart, James R. Marney Jr., Rolf C. Rosenvinge, William E. Hall, James A. Fritts, Jerry Love, Roland O. Friedrich, Jack C. Young, Clarence C. Wright and Bobby G. Grant.

PADUCAH 20 YEARS

Raymond O. Schweiger, William E. Morgan, John D. Boss Jr., Robert L. Shetler, Edwin L. Parham, Eugene F. Speer, Ernest R. Johnson, Dentis K. Riley, Warren E. Scott, Q. Dean Yates, Joe R. Stephens, Thomas P. Englert Jr., Farlie Bivin, Billy O. Sanders, William P. Woods and Marjorie Overstreet.

25 YEARS

Clifford E. Key, Franklin T. Binford, Harry O. McNabb and James A. Harter.

20 YEARS

Augustine J. Sharenberger, Roy L. Leinart, John J. Woodhouse Jr., and George E. Mellon.

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NUCLEAR DIVISION SAFETY SCOREBOARD

Time worked without a lost-time accident through January 25:

Paducah	108 Days	682,000 Man-Hours
ORGDP	15 Days	245,000 Man-Hours
ORNL	45 Days	709,356 Man-Hours
Y-12	7 Days	257,000 Man-Hours

Safety is everyone's concern!



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