

NUCLEAR DIVISION NEWS

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

Volume 14/Number 2 January 27, 1983



Single operating contractor to be selected by DOE

A single contractor will be selected to operate DOE's four production and research and development facilities in Oak Ridge and Paducah, R. J. Hart, Manager of the Department's Oak Ridge Operations, has announced. DOE expects that the new contractor would be on board and take over by early spring of next year, hopefully by about April 1, 1984.

Hart said the decision to select a single contractor rather than multiple contractors resulted from an analysis of the various modes of operation. "That analysis showed that a single, integrated contractor approach such as we have now permits the greatest flexibility in meeting a variety of DOE program and project needs in a prompt, efficient and cost-effective manner," Hart said.

"Most importantly," Hart said, "selection of a single contractor will result in minimum disruption of ongoing programs, have the least impact on the work force and generally minimize government operating costs."

"Choosing a single contractor will enable us to have continued flexibility in the utilization of employees through interplant transfers of personnel to solve special needs or to minimize the impact of employment reductions that may result from changes in program responsibilities or budget levels," Hart said. "This approach will also assist in the application of uniform employee benefits."

Hart said the selection of a single contractor also would assist in holding down overhead costs and provide future opportunities for other cost reductions through possible further consolidation of functional programs and integration of management systems.

The decision to select a single contractor follows a study initiated last summer by a planning group composed of representatives of DOE Headquarters and DOE's Oak Ridge Operations. The planning group considered a number of options for the operation of the four facilities, ranging from a single contractor to a separate contractor for each of the four facilities. Included in the planning group's consideration were some 66 expressions of interest received from industrial, educational and nonprofit organizations in response to an August 1982 announcement that DOE was seeking expressions of interest for any or all of the facilities.

The Department is expected to advertise shortly in the *Commerce Business Daily* for formal requests for proposals for four-facility operation, citing the criteria that should be met for proposals to be accepted for further consideration.

Operations at the four facilities involve approximately 17,350 employees, including some 1,300 personnel employed in a central services group in Oak Ridge. Annual cost for the operations is approximately \$2 billion per year, including some \$660 million related to electrical power cost.

It is expected that essentially all of the present employees will become employees of the new contractor.



AT RECENT NEWS CONFERENCE — DOE Secretary Donald P. Hodel briefs media representatives at a news conference during his recent tour of Nuclear Division facilities in Oak Ridge. Hodel visited areas of ORGDP, ORNL and the Y-12 Plant after meeting with local DOE employees.

Secretary Hodel visits Oak Ridge

Department of Energy Secretary Donald P. Hodel recently visited Nuclear Division facilities in Oak Ridge. Hodel toured areas of ORGDP, ORNL and the Y-12 Plant and held a news conference for more than 20 media representatives.

Hodel, who was sworn in as Energy Secretary December 27, toured the gas centrifuge and advanced isotope separation process development areas at ORGDP; ORNL's Fusion Energy, Environmental Sciences and Fuel Recycle Divisions; and various areas at Y-12, after meeting with local DOE employees at the Federal Building.

During the afternoon news conference, Hodel, who most recently served as Under Secretary of the Interior Department, called his tour of the Oak Ridge facilities "a most valuable experience."

When asked about the possibility of major cuts in spending for research and development activities, and how the Oak Ridge facilities might be affected, Hodel replied that the work being done in the DOE facilities is "the best being done anywhere in the world. It would be a shame if we lost or interfered with those capabilities," he said. Hodel added, however, that this must be counterbalanced by the country's "serious budget problem." He said he felt that "the long-term best interests of this country would be served by maintaining and operating these kinds of programs."

When asked about his impressions of the Oak Ridge facilities, the Secretary said: "I expected to be impressed, and I am impressed. The most important single thing to me has been the people I have met and their level of professionalism. Our people are the most valuable resource we have."

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What is vacation pay policy?

QUESTION: Will the exempt (monthly) employees in the Nuclear Division be allowed to take pay in lieu of vacation in 1983?

ANSWER: No. The poor business conditions that led to suspension of pay in lieu of vacation (PLV) for exempt employees in 1982 still prevail. Neither the exempt employees in the private sector of Carbide nor in the Nuclear Division will be permitted to take PLV in 1983.

Dental coverage

QUESTION: I am confused about the effective date of my coverage

under the Dental Expense Plan. When does a new employee's coverage become effective?

ANSWER: Eligibility begins on the first of the month upon or following completion of one year of Company Service. For example, an employee who was hired on November 1, 1981, and whose Company Service Credit was uninterrupted, would be eligible on November 1, 1982. If an employee were hired on November 2, 1981, or any other date later in that month, coverage would not begin until December 1, 1982.

Rita J. Pierce dies in Knoxville hospital

Rita J. Pierce, a secretary in the ORNL Health and Safety Research Division, died recently at Baptist Hospital in Knoxville.

Mrs. Pierce, a three-year Carbide employee, lived at 3041 Meadowview, in Kingston. She was an accredited medical records technician and belonged to the American Medical Records Association. She was a member of Central Baptist Church.

Funeral services were conducted at Kyker Funeral Home in Kingston.

Survivors include her husband,



Mrs. Pierce

Ronnie E. Pierce, and a daughter, Mary Beth Pierce, both of Kingston.

Save Energy / Share The Ride

Y-12

CAR POOL MEMBER NEEDED from Cedar Bluff Shopping Center, West Knoxville, to all portals, 7:30-4. Bill Brosey, plant phone 4-0881; home phone 693-4542.

CAR POOL MEMBER NEEDED from Cedar Bluff area to any portal, 8-4:30. Gary Russell, plant phone 4-3658; home phone 691-3475.

BUS POOL RIDERS NEEDED from Rockwood/Midtown/Kingston areas to all portals except East, 8-4:30. Tommy Roberts, plant phone 4-2786; home phone Rockwood 354-2789.

ORNL

BUS POOL MEMBERS NEEDED from the Burlington Area, Asheville Highway, heading in the direction of I-640, stopping at Broadway and Tazewell Pike. The next stop is Papermill and Weisgarber, then to Cloth World on Kingston Pike. The next stop, via Kingston Pike, is Lovell Heights Shopping Center, then on via Pellissippi Parkway to all portals, 8-4:30. P. R. Long, plant phone 4-4154; or Twana Taylor, 4-7281.

VAN POOL RIDER NEEDED from West Knoxville (Cedar Bluff, Middlebrook Pike, Vanosdale Road, Cloth World, Kingston Pike) to any portal except South, 8-4:30. Leon, plant phone 4-5723; home phone 693-3211.

WANT TO FORM OR JOIN CAR POOL from Cedar Bluff area to East or North Portal, 8-4:30. Contact Donna Watson, plant phone 4-6151.

RIDE NEEDED from Oak Ridge Highway between Karns and Solway to East Portal, 8:15-4:45. Peterson, plant phone 4-4483; home phone 690-3989.

SEEK TO JOIN OR FORM A VAN OR CAR POOL from 25W area (North Clinton) to any portal. Contact Gary, plant phone 4-5614; home phone 457-0734.

VAN POOL RIDERS NEEDED from East Knoxville down Middlebrook Pike, Cedar Bluff and back down Middlebrook Pike to Pellissippi Parkway to East and West Portals, 8-4:30. Contact A. J. Boatwright, plant phone 4-6041; home phone 970-4231.

CAR POOL MEMBERS WANTED from Walker Springs, Cedar Bluff area to West or South Portals, 8-4:30. Contact B. J. Kelley, plant phone 4-4444; home phone 693-5171.

ORGDP

TWO CAR POOL MEMBERS NEEDED from Karns to Portals 2, 4 or 7; 7:45-4:15. Contact David Duncan, 4-8623; or Joe Huggins, 4-9570.

CAR POOL MEMBERS NEEDED from east end of Oak Ridge to any portal, day shift. Phone Doug Janney at 4-9448 or 483-1619; or Sam Blumkin at 4-8145 or 483-7865.



LABORATORY BEGINNINGS — February 1 marks a significant anniversary for the Graphite Reactor. On this date in 1943, excavation was begun for the reactor, which was built to produce the first gram quantities of plutonium. In this photograph from late 1943, the concrete shielding for the pilot plant processing cells can be seen to the left of the unfinished reactor building. The Graphite Reactor was operated for exactly 20 years — from November 4, 1943, to November 4, 1963.

In AMSE auditorium

Lab address set for February 1

The theme of this year's State of the Laboratory address — "Long-Range High-Risk, High-Payoff R&D" — reflects the changing emphasis in ORNL's work and federally sponsored research and demonstration projects.

Laboratory Director Herman Postma will present the address February 1 at 8 p.m. in the auditorium of the American Museum of Science

and Energy. The address will be preceded at 7:30 by a new 26-minute color video overview presentation, "Biology Division Closeup," produced by the Nuclear Division's Color Television Center.

Nuclear Division staff, their families and friends are invited to attend the multimedia presentation and talk. Refreshments will be served following the address.

**UNION
CARBIDE**

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Pete Harrison of Paducah's Maintenance Division.

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INTERNATIONAL ASSOCIATION
OF BUSINESS COMMUNICATORS

Vessel for AVLIS process completed, moved to ORGDP

The Nuclear Division's Advanced Isotope Separation program has reached an important milestone. Fabrication was completed of the Materials Handling Development Module (MHDM) vessel, a major component of the Atomic Vapor Laser Isotope Separation (AVLIS) process. The vessel was fabricated in Y-12's Alpha-1 General Shops and has now been moved to its permanent home at ORGDP.

The AVLIS process is being developed jointly by the Nuclear Division and Lawrence Livermore National Laboratory (LLNL). Because of its potential for economically producing enriched uranium for use as fuel in nuclear power plants, AVLIS was selected by DOE from among three advanced isotope separation processes for future development and demonstration.

The MHDM vessel represents a substantial scale up of separator module facilities previously used in laboratories at Y-12 and LLNL. It measures 22 feet in length and weighs 70,000 pounds. It is composed of several major subsystems, including the separator vessel, which provides the necessary vacuum environment for generating uranium vapor and extracting U-235.

The double-wall, stainless steel structure contains four large coils that provide a magnetic field to meet process requirements. During operation, water will be used between the walls as a coolant to remove heat from the process.

Design and fabrication of the vessel were begun in 1981. Completion involved the cooperative efforts of skilled craftsmen, engineers and managers from both Y-12 and ORGDP.

John S. Rayside, Advanced Isotope Separation Division, was project manager and Gary A. Johnson, Engineering, was principal engineer. C. Michael Amonett of Engineering was responsible for the design effort. Fabrication of the vessel, which took about 15 months, was directed by Thomas R. Webber, Fabrication Division.

Some components for the vessel were fabricated at ORGDP.

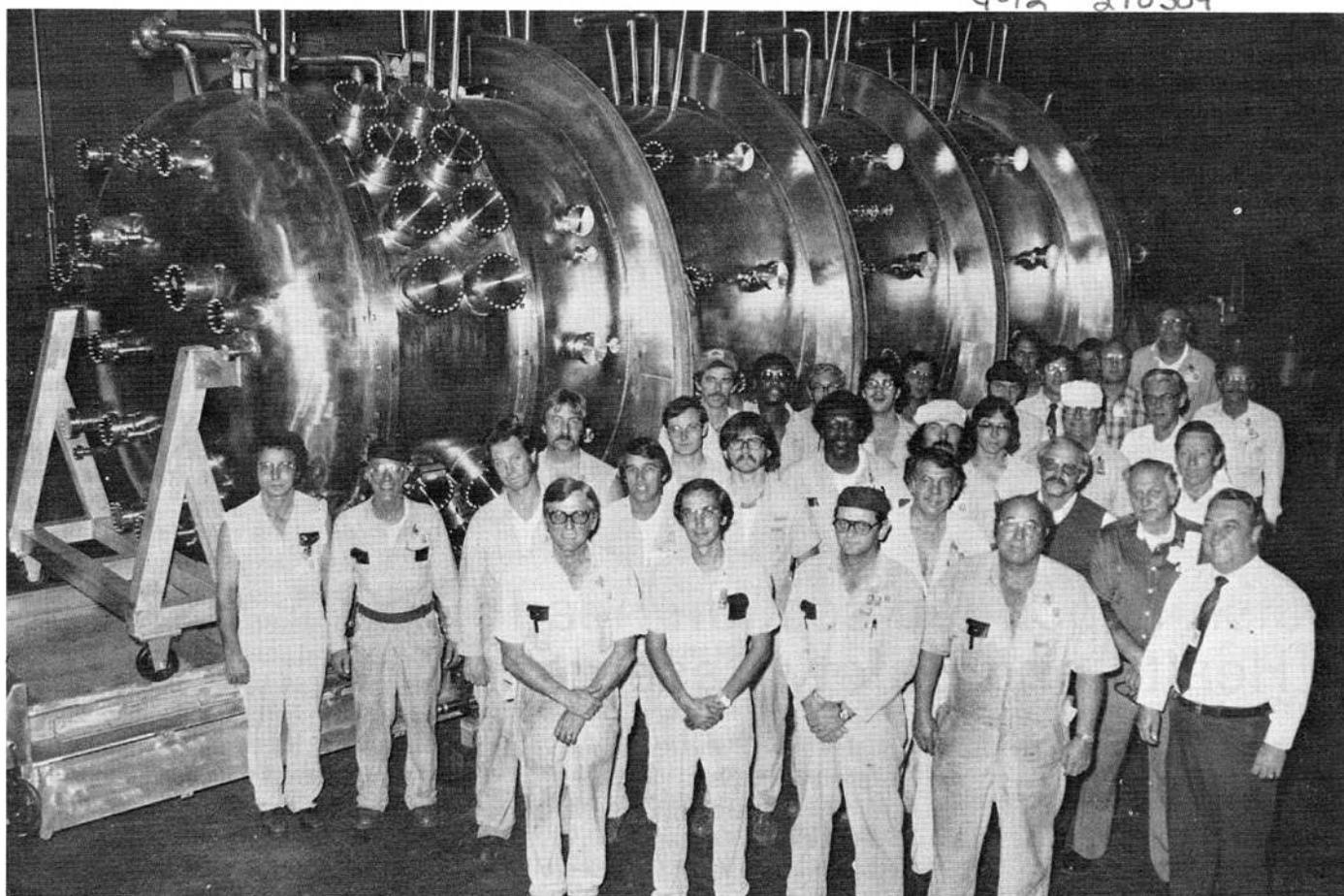
Robert L. McIlwain, Y-12 Fabrication, performed the shop planning and liaison function. Richard T. (Dick) Bell, Advanced Isotope Separation Division, was responsible for project operations. Both Rayside and Bell were members of the Y-12 Development Division staff at the time the project started.

Before the MHDM vessel was moved to ORGDP, Y-12 staff performed an extensive series of tests which verified the vacuum integrity of the many seals and welds.

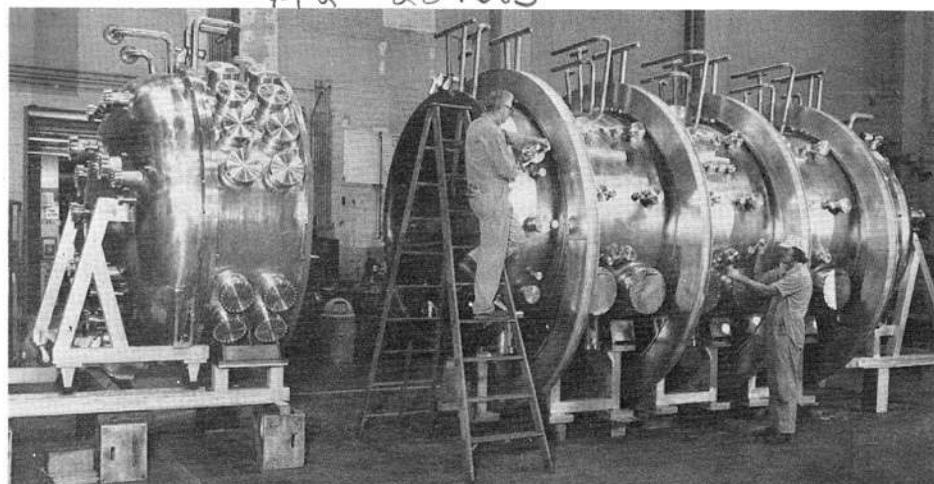
Process hardware will be installed in the vessel over the next year, and beginning in April 1984, the facility will be used to develop and prototype components for the AVLIS Development and Demonstration Module.



TIME TO UNLOAD — Workers use a heavy-duty crane to move the vessel from the truck bed to its new home in the newly constructed AVLIS Laboratory at ORGDP.



JOB WELL DONE — Fabrication of the MHDM vessel required the combined effort of welders, sheet metal workers, machinists and supervisory personnel in the Alpha-1 General Shops at Y-12. Some of them are shown here with the completed vessel before it was moved to ORGDP.



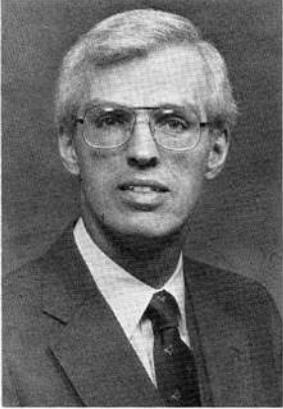
TORQUING FLANGES — Nolan Parrott and Claude J. Cumbie Jr., sheet metal workers in the Y-12 Fabrication Division, attach covers to the ports in the MHDM vessel to ensure that the vessel will be leak-tight during operation.



KEY CONTRIBUTORS — Inspecting features of the MHDM vessel after it has been placed in its new home at ORGDP are, from left, Dick Bell, Gary Johnson, Mike Amonett, John Rayside, Tom Webber and Bob McIlwain.

Corum to head new section; other ETD changes announced

4-12 210572



Corum

James M. Corum has been named to head a new Structural Mechanics Section in ORNL's Engineering Technology Division.

In his new position, he will be responsible for DOE and Nuclear Regulatory Commission programs related to the use of materials and structures at high temperatures; and for the Nuclear Standards Management Center, which fosters and coordinates the development and applications of Standards in DOE nuclear energy programs.

Corum's appointment was announced as part of several organization changes that have been made in the Engineering Technology Division. Other principal changes include:

- John E. Jones, formerly head of the Fossil Energy Technology Sec-

tion, succeeds Irving Spiwak — who will retire this month — as head of the Engineering Analysis Section. The activities of the Fossil Energy Technology Section have been transferred to Engineering Analysis.

- Claud E. Pugh has been named manager of the Heavy Section Steel Technology Program in the Pressure Vessel Technology (formerly Solid Mechanics) Section.

- Uri Gat has been named leader of a new nuclear technology development group in the Experimental Engineering Section.

- Michael A. Kuliasha has been named leader of a new systems development group in the Thermal Systems Technology (formerly Heat Transfer-Fluid Dynamics) Section.

Corum holds BS and MS degrees in mechanical engineering from the University of Tennessee and a PhD degree in theoretical and applied mechanics from the University of Illinois. He joined the Nuclear Division in 1959 in ORNL's Reactor Projects Division, which has since been incorporated into the Engineering Technology Division.

His most recent position involved responsibilities as both head of the Nuclear Standards Management Center and leader of the engineering mechanics group in the division's Solid Mechanics Section.

Corum and his wife, Joyce, live at 2801 Staffordshire Boulevard, Powell. They have a daughter and a son.

Walsh appointed section head in Health and Safety Research

ORNL 4753-78



Walsh

Phillip J. Walsh has been appointed head of the health studies section in the Health and Safety Research Division at ORNL.

Walsh, who formerly led the Division's health effects and epidemiology group, succeeds Dennis C. Parzyck, who recently was appointed director of the Industrial Safety and Applied Health Physics Division.

In his new position, Walsh will oversee research and development activities in nuclear medicine, pollutant detection and measurement,

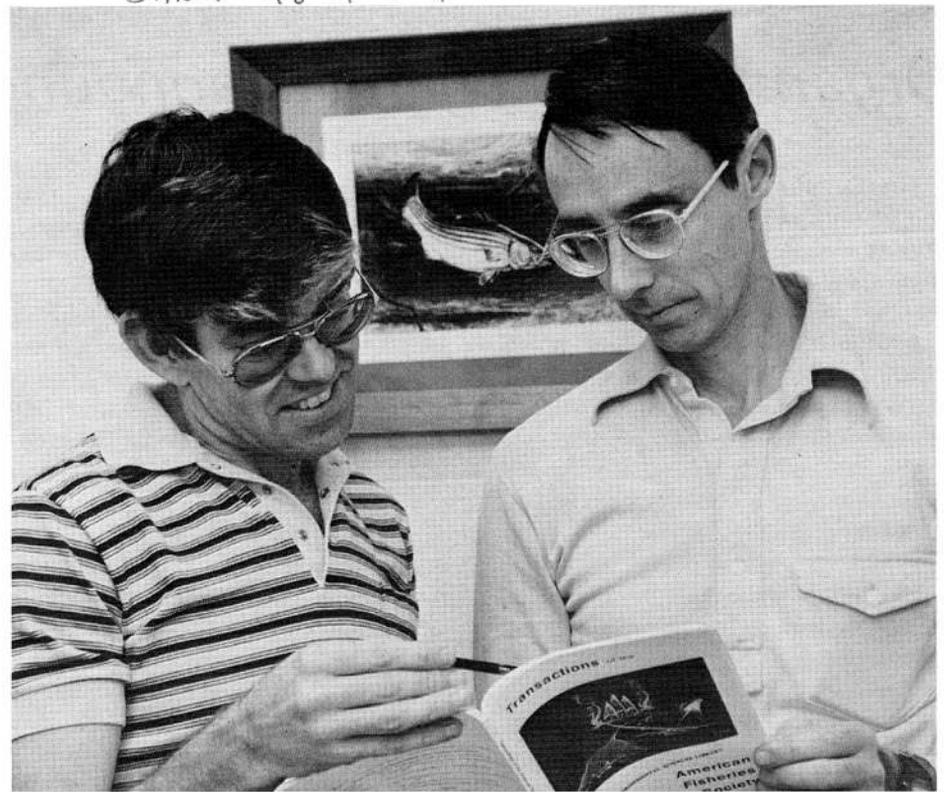
health effects and epidemiology and exposure analysis.

Walsh joined the Environmental Sciences Division at ORNL in 1976. His work has involved research and assessments of health impacts of environmental pollutants.

He received a BS degree in physics from North Carolina State University and an MS degree in health physics and a PhD in environmental sciences from the University of North Carolina. He has been a member of the federal interagency task forces on environmental cancer, heart and lung disease, and on indoor air pollution, materials needs for energy technologies and uranium mining health hazards. He also has served on work groups to review research and development needs in exposure assessment, health effects assessment and health and environmental effects research.

Walsh is a member of the Health Physics Society; Sigma Xi; Sigma Pi Sigma, Physics Honor Society; and Delta Omega, Public Health Honor Society.

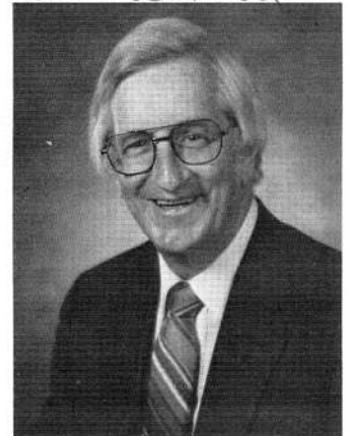
He and his wife, Jane, have two sons. They live in Oak Ridge.



JOURNAL EDITORS — ORNL environmental scientists Marshall Adams, left, and Webster Van Winkle have been named to the editorial board of the American Fisheries Society and will serve as associate editors of the society's journal, *Transactions of the American Fisheries Society*. Adams is associate editor for publications in warmwater ecology and Van Winkle will edit publications in modeling and statistics.

Davis named superintendent in Engineering Organization

ORNL 5301-82



Davis

Francis C. (Frank) Davis has been named superintendent of Equipment Design Engineering in the Nuclear Division's Engineering Organization. He succeeds L. Mike Cuddy, who was recently named Employee Relations manager at the Y-12 Plant.

Davis was born in Claremont, N.H., and raised in Belmont, Vt. He received his BS and MS degrees in mechanical engineering from the University of Vermont and the University of Tennessee, respectively. He served for two years in the U.S. Army and worked for Jones and Lamson Company, before joining the Nuclear Division as a mechanical design engineer at ORNL in 1960.

Davis is a member of the Tennessee Society of Professional Engineers and is past president of the Oak Ridge Chapter.

He and his wife, Mae, have two sons. They live on Louisiana Avenue in Oak Ridge.

Next issue . . .

The next issue of *Nuclear Division News* will be dated February 10. The deadline is February 2.

Savings Plan-Personal Investment Account

	Fixed Income Fund	UCC Stock	Equity Investment Fund
December 76	13.0553	59.2723	8.8166
December 77	14.2017	40.9096	8.0427
August 82	21.7696	45.7450	13.1057
September 82	21.9623	49.3688	13.2389
November 82	22.3508	58.2700	14.8005
December 82	22.5465	51.9588	15.0650

Note: Fixed Income Fund unit values reflect interest additions to achieve the guaranteed effective annual interest rate of 11% for 1982. Union Carbide stock values are the average cost of stock purchased during the month. Equity Investment Fund unit values represent the month-end market value of securities held by the Fund. The price of each unit is determined by dividing the total value of the securities by the number of units in the Fund.

Organizational changes announced in Computer Services

The Computer Operations organization within Computer Sciences has announced several promotions and organizational changes in the three Oak Ridge Computer Centers.

• ORGDP: N. David Byrd has been promoted to supervisor of Program Control; Gary L. Phillips has been assigned responsibilities as Applications Program Control supervisor; and W. Troy Beets has been promoted to supervisor of computer operators on shift III.

• ORNL: Larry S. Finch has been promoted to general supervisor of computer operators; Robert F. Quimby has been promoted to supervisor of shift II computer operators; and Leroy D. Vest has been promoted to supervisor of operators on shift I.

• Y-12: Sherrill O. Smith has been named general supervisor of computer operators; Charles E. Bowling has been promoted to supervisor of computer operators on shift F; J. Elmo Anderson has been assigned Job Control supervisor; Gary D. Morris has been assigned Program Control supervisor; and Elsie G. McCarthy has assumed responsibilities as Y-12 Data Entry supervisor.

ORGDP

David Byrd was born in Akron, Ohio, and grew up in Oakdale. He served four years in the U.S. Air Force and worked for the Tennessee Valley Authority before joining the Nuclear Division as a process operator in 1952. He has served as a computer operator, group leader and supervisor in the Management Applications Section, and as Applications Program Control supervisor.

Byrd and his wife, Beulah, have two children. They live on Hassler Mill Road in Harriman.

Gary Phillips, a native of Wartburg, attended Tennessee Technological University. He worked for the Ford Motor Company in Atlanta before joining the Nuclear Division as a computer operator in 1966. He has served as an electronic data processing (EDP) specialist, EDP leader and as supervisor of computer operators on shift III.

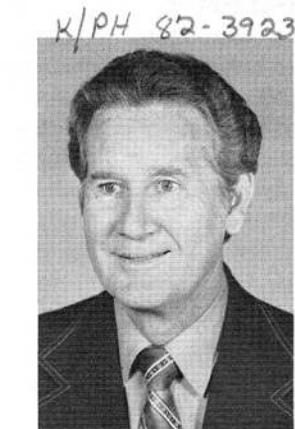
Phillips and his wife, Kemberly, live in Wartburg with their two children.

Troy Beets is a native of Knoxville. He worked at several local businesses prior to joining the Nuclear Division as a computer operator in 1966. His most recent assignments have been as an EDP specialist and an EDP leader.

Beets and his wife, Carolyn, live in Kingston. They have two sons.

ORNL

Larry Finch was born in Milan and grew up in Oak Ridge. He attended Tennessee Technological University before he joined the Nuclear Division in 1959. Finch worked as a records



Byrd



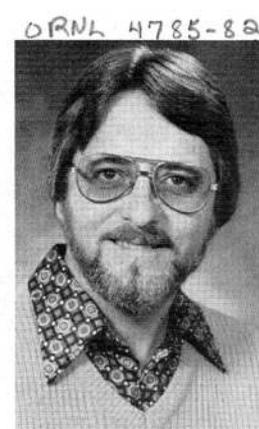
Phillips



Beets



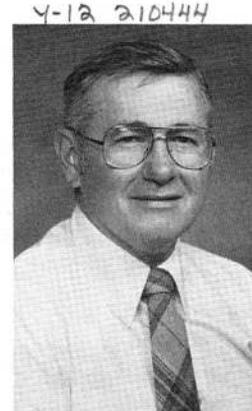
Finch



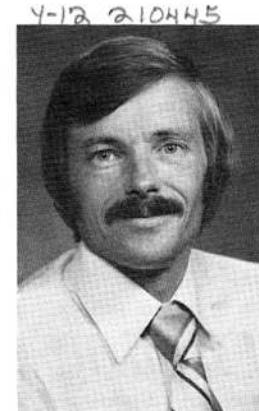
Quimby



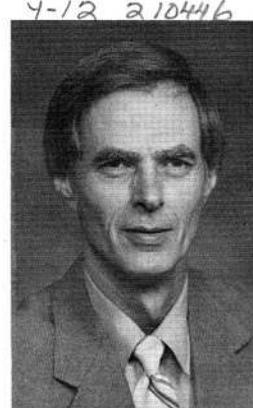
Vest



Smith



Bowling



Anderson



Morris



McCarthy

clerk in ORNL's Library Order Department until 1963 when he transferred to Computer Operations. Prior to his recent promotion, he served as supervisor of computer operators on shift II.

Finch and his wife, Elizabeth, have four children. They live on Hunterhill Drive in Knoxville.

Robert Quimby was born in Providence, R.I., and grew up in Oak Ridge. He served in the U.S. Marine Corps and worked at the UT Research Laboratory before joining the Nuclear Division in 1966. Quimby worked in the ORNL Mail Room before transferring to Computer Operations in 1967. His most recent assignments have been as an EDP specialist and an EDP leader.

Quimby and his wife, Sandra Kaye, have four children. They live on Arrowwood Road in Oak Ridge.

A native of Johnson City, Leroy Vest served in the U.S. Navy during World War II and the Korean War. He joined the Nuclear Division at ORNL in 1947, working in various positions within the Thermonuclear Division and the Finance and Materials Division. Vest transferred to Computer Operations in 1970 as an EDP technician. His most recent assignment has been as an EDP specialist.

Vest and his wife, Azolene, live on Lyon's View Drive in Knoxville. They have two grown children.

Y-12

Sherrill Smith was born in Fayetteville and grew up in Oak Ridge. He attended East Tennessee State University and graduated from Knoxville Business College. He served in the U.S. Marine Corps for three years.

Smith joined the Nuclear Division in 1958 and has served Computer Operations in various positions of responsibility. Most recently, he was supervisor of computer operators at ORNL.

Smith and his wife, Marian, have two sons. They live on West Maiden Lane in Oak Ridge.

Charles Bowling was born in Scott County and grew up in Oliver Springs. He has worked in Computer Operations since joining the Nuclear Division in 1966. His most recent assignments have been as EDP specialist and EDP leader.

Bowling lives in Clinton with his

wife, Brenda, and their two children.

Elmo Anderson is a native of Knoxville. He attended Knoxville Business College and worked for a construction company before joining the Nuclear Division in 1963 in the Y-12 Quality Division.

Anderson has served in various positions within Computer Operations and, since 1976, has been supervisor of the Program and Job Control Section. He and his wife, Catherine, have five children. They live on Cedar Road in Clinton.

Gary Morris, a native of Kingsport, attended Tennessee Technological University. He has served in the Tennessee Army National Guard for 18 years and is now a member of the 278th Armored Cavalry Regiment.

Morris joined the Nuclear Division in 1966 and has served in various positions within Computer Operations. His most recent assignment has been as supervisor of computer operators on shift F.

Morris and his wife, Paula, live in the Karns Community. They have three children.

Elsie McCarthy was born in Knox County and grew up in the Claxton Community. Prior to joining the Nuclear Division in 1957 as keypunch clerk, she worked for Magnet Mills, Inc. She served as a keypunch leader and Data Entry supervisor at ORGDP before her recent transfer to the Y-12 Computer Center.

McCarthy has three grown children. She and her husband, Joseph, live on Terisu Lane in Powell.

'Spot bid' sale set for used equipment

A "spot bid" sale of used, government-owned office equipment and vehicles will be held next month at ORGDP. The items may be inspected daily (including Saturdays, January 29 and February 5) from 8:10 a.m. until 4:00 p.m. through February 8. The sales office is at the

ORGDP powerhouse area, Building K-722, located off state route 58.

The sale will begin at 9 a.m. February 9.

Additional information may be obtained from D. R. McCammon at 576-1451.



IN CAST OF PLAYHOUSE COMEDY — Nuclear Division employees Jonathan Woodward, Arthur Rowcliffe and Phil Edmonds (left to right) will appear in the new Oak Ridge Playhouse production, "Taking Steps." The comedy, which centers around the misadventures of a married couple and an odd assortment of in-laws and business associates, will be presented January 28-30 and February 3-6. Curtain time is 8:20 p.m., except for the Sunday performances, which begin at 7 p.m. For reservations or additional information, contact the box office at 483-1224.

Fishing rodeo results . . .

ORGDP winners . . .

The following ORGDP fishermen were winners in the fishing rodeo, which ended in December:

Smallmouth Bass	
John Griffis	5 lbs., 1 oz.
Normand Rathbone (wife)	4 lbs., 12 oz.
Chester Turner	4 lbs., 1 oz.
Largemouth Bass	
W. C. Hart	6 lbs., 1 oz.
C. F. Prater	5 lbs., 4 oz.
L. K. Barding Sr.	4 lbs., 2 oz.
Striped Bass	
B. E. Woody Jr.	3 lbs., 13 oz.
H. E. Walters (retired)	3 lbs., 11 oz.
R. H. Harden III	2 lbs., 8 oz.
Walleye	
A. R. Walters	7 lbs., 15 oz.
B. J. Ford	6 lbs., 12 oz.
Sauger	
L. W. Clowers	3 lbs., 1 oz.
Crappie	
J. D. Hart	1 lb., 8 oz.
Sunfish	
Dawn Harden	8 oz.
Trout	
F. M. Shoemaker	1 lb., 12 oz.
H. L. Warrington	11 oz.
Rockfish	
Mike Sawicki	28 lbs., 8 oz.
Roughfish	
W. H. Adams (retired)	7 lbs., 5 oz.

Y-12 winners . . .

These Y-12 anglers took top honors in the special July-December fishing rodeo:

Smallmouth Bass	
Wendall Cooper	5 lbs.
Jim Franklin	4 lbs., 6 oz.
Randy Harris	4 lbs., 2 oz.
Largemouth Bass	
Karl Morgan	10 lbs.
David Hammontree	7 lbs., 8 oz.
Doug Underwood	2 lbs., 4 oz.
Striped Bass	
James Stevens	4 lbs., 8 oz.

Walleye	
Elmer Green (retired)	6 lbs., 7 oz.
Jim Graves	5 lbs., 14 oz.
Sauger	
John Campbell	4 lbs., 10 oz.
Robert Phillippi	2 lbs., 14 oz.
Sunfish	
George Gaylor	8 oz.
Trout	
C. D. Ward Sr.	4 lbs., 3 oz.
Rockfish	
W. D. Hammond	3 lbs., 12 oz.
D. L. Roberts	1 lb., 4 oz.
Roughfish	
Don Campbell	16 lbs.
C. H. Stevens	7 lbs., 1 oz.
J. R. Harris	5 lbs., 5 oz.

ORNL winners . . .

ORNL fishermen taking top honors in the recent Carbide fishing rodeo included:

Largemouth Bass	
Jerry Martin	6 lbs., 5 oz.
Striped Bass	
C. A. Cook	4 lbs.
L. Jung	3 lbs., 11 oz.
G. W. Shooster	2 lbs., 15 oz.
Walleye	
G. E. Testerman	7 lbs., 4 oz.
G. A. West	7 lbs.
Sauger	
C. R. Schaich	3 lbs., 4 oz.
R. B. Donaldson Jr.	2 lbs., 13 oz.
Crappie	
J. T. Walker	1 lb., 10 oz.
M. B. Brewer	1 lb., 3 oz.
M. W. McGuffin	12 oz.
Sunfish	
D. Plemons	1 lb., 4 oz.
L. B. Yeatts Jr. (wife)	12 oz.
Rockfish	
W. J. Lackey	35 lbs.
W. H. Miller Jr. (son)	30 lbs., 8 oz.
W. G. Tatum	12 lbs.
Roughfish	
A. D. Ryon	13 lbs.
J. P. Heiskell	12 lbs., 4 oz.
T. C. Miller	11 lbs., 12 oz.

Carbide bowling highlights . . .

Y-12 Classic...

The Ridgers captured the early league lead to begin the season's second half, followed by Apollo Five and Pendulum. Individual highs are held by the Splinters' Elmer Johnson (712) and by Ed Tuell of Pendulum (282).

Carbide Wednesday...

The Operators held on to the lead to capture the first-half championship in the Carbide Wednesday Men's League, followed by Sues Sooners and the Alley Rads. Recent weekly highs were posted by Lou Finley, 558 scratch series; Ernie Bogle, 661 handicap series; Bobby McKnight, 224 scratch game; and John Patton, 269 handicap game.

Y-12 "C"...

The first half of the season ended with the Irregular Five claiming the top spot in the Y-12 C League, followed by the Sunflowers and the Irregular Five. The Badgers' Dick Huber was outstanding, rolling a 232, 621 scratch game and series.

UCC Lenoir City...

Team leaders in the Lenoir City League are PaPaw's Bunch, the Smurfs and the Spoilers. John McNabb (573) is high series leader, while Glenn Monger rolled a recent high game of 236.

UCC Mixed...

The Split Images captured the first-half championship of the UCC Mixed League, trailed by the No-Names and Tidy Bowlers. Individual leaders were Allyn Zerby, 682 series; Trish

Lankford, 716 series; Jim Young, 266 game; and Barbara Stacy, 268 game.

Carbide Family Mixed...

Recent individual highs in the Carbide Family Mixed League were rolled by Dave Foster, with a 201, 538 scratch game and series; Chris Scott, with a 243 handicap game; and Dave Scott, with a 640 handicap series. Top women scorers were Jennie Saffell, 191 scratch game; Sandra Jefferson, 239 handicap game; and Tillie Plaza, 537,642 scratch and handicap series.

K-25 Tuesday...

The City Slickers have taken the early lead in the K-25 Tuesday League, followed by The Team and the All Stars. Recent individual highs were rolled by C. H. Peterson, 225 scratch game, 248 handicap game; R. W. Gaylor, 248 handicap game; M. S. Ginsburg, 563 scratch series; and C. R. Levenhagen, 665 handicap series.

Monday Mixed...

The first half of the season ended with the Go-Getters atop the standings in the UCC Monday Mixed League, followed by the Hi-Rollers and Lucky Strikes. Individual leaders were Bill Muenzer (670) and Penny Jessen (585), high scratch series; Job Goodman (671) and Brenda Williams (692), high handicap series; George Byrd (234) and Williams (234), high scratch games; and Steve Gann (256) and Jewell Mathews (250), high handicap games.

Volleyball league standings . . .

Here are the league standings in Carbide volleyball action through January 7:

ATOMIC LEAGUE			
Team	Won	Lost	
Profusion	26	1	
Brainbusters	20	4	
Dirty Half Dozen	21	6	
BMS Super Dinks	13	8	
Artie's Army	10	14	
Chestnut Point	11	16	
Bruise Brothers	4	26	
Dinkers	0	30	

CARBON LEAGUE - SOUTH DIVISION		
Team	Won	Lost
SHHEEEE	23	1
Twelve Pack	18	3
Mug Huggers	17	4
Generics	24	6
Dymcas Darlings	16	5
Alligators	12	9
P.O.I.	17	13
Protocol Jerks	10	14
Odd & Ends	12	18
Absolute Zeros	9	18
Midnet Spikers	8	19
Mustangs	6	21
Tail Spinners	4	23
Totally Grody	4	26

CARBON LEAGUE - NORTH DIVISION		
Team	Won	Lost
Beech-Nuts	19	2
Prime Time Players	18	3
Net Profits	17	4
Volleybawlers	19	5
Condensed Matter	15	9
6-Pack	12	9
Scobies	8	13
Smackers	8	19
Solid Gold	7	17
Irish Setters	7	17
The Crew	7	17
Short Circuits	5	16
Bombers	5	16

Photography course

The Carbide Camera Club is offering a course in basic photography for beginners. The two sessions will be held February 17 and 24 at 7 p.m. There is no charge, and classes are open to all Union Carbide and DOE employees.

Please contact the Y-12 Recreation Department at 574-1597 for registration information.

ORNL artist adds quilting to long list of talents

A Tennessee Walking Horse, energy, a dogwood blossom, the Cherokee Indians, a mockingbird — each of these subjects can be considered symbolic of the state of Tennessee, its history, people and traditions. And each of these themes, and others, are carried out in original quilting patterns found in a book entitled "Tennessee Quilting," co-authored by Alice Richardson of ORNL's Information Division.

Richardson, an award-winning illustrator in the Graphic Arts Department, has studied at Memphis State, the Memphis Academy of Arts and the University of Edinburgh in Scotland. She has been involved in crocheting, knitting, embroidery and other needlecraft skills for several years, and she recently became an active quilter. "I had begun quilting on my own," Richardson explained, "and I realized that I didn't really know enough about it to become proficient. I enrolled in a local quilting class that met on Saturdays, and I had a ball."

The artist, who is married to E. G. (Rich) Richardson of ORNL's Physics Division, had quilted some pillows and other small items and was working on an original design for a pattern

when she was contacted by Judy Elwood (wife of Jerry, of ORNL's Environmental Sciences Division). "Judy, along with Joyce Tennery (who is married to Vic, director of the High Temperature Materials Program at ORNL), was planning a book on Tennessee quilting patterns. They wanted me to serve as graphic designer for the book, but after they learned of my interest in quilting, it was agreed that I would be a co-author," Richardson recalled. "The three of us discussed the amount of work that would be involved and the potential costs, and we determined that it would be faster and more efficient for us to work as a team."

Original plans called for the book to consist of traditional Tennessee quilting patterns, but the three soon discovered that there weren't quite enough of those around to fill their publication. "We then decided to divide the book into three parts, with the first documenting all previously published Tennessee patterns, the second containing traditional patterns that relate to the state in some way and the third consisting of new patterns designed by Tennessee quilters," Richardson said. Of the 15 patterns contained in the third sec-

tion, 7 were designed by Richardson and 4 by her co-authors.

Richardson's original contributions to "Tennessee Quilting" include designs entitled "Tennessee Mockingbird," an intricate rendition of the state bird; "Memphis Cotton," recognizing West Tennessee agriculture; "Tennessee Dogwood," a tribute to Knoxville's Dogwood Arts Festival; "Tennessee Cherokee Indians," a design Richardson adapted from an ornamental Cherokee collar found by archaeologists near the Cumberland River; "Tennessee Energy," recognizing the claim of the Oak Ridge/Knoxville area as "Energy Capital of the World"; "Tennessee Dancing Squares," inspired by Richardson's interest in square dancing; and "Tennessee Spring Glory," the original floral pattern on which she was working when first contacted about the book.

'Tennessee Quilting' has been distributed all over the United States and to countries as far away as Germany and New Zealand.

"After we were halfway through our work on the book, we realized that we would need a rather unique way to promote it," said Richardson, who planned the layout and did all the artwork for the publication. "We came up with a plan to combine all 15 of the original patterns into a quilt. This also served as sort of a test for the accuracy of the patterns, many of which had never been quilted before," she explained. The three began work on the quilt and finished it "about the time the book was ready," Richardson said.

Since the book's publication last spring, the authors and their quilt (shown in the accompanying photo-



Alice Richardson

graphs) have been invited to autograph parties at bookstores, craft centers and museums all over the Southeast. In recent months they have appeared at the American Museum of Science and Energy in Oak Ridge, at Knoxville's TVA&I Fair, at a special international quilting exhibit at UT's McClung Museum and at the 1982 World's Fair.

"Tennessee Quilting" has been distributed all over the United States, and Richardson said requests for copies have come from as far away as Germany and New Zealand.

And at least one of the book's original patterns is already in use. A new, queen-sized quilt featuring Richardson's "Tennessee Dogwood" pattern will be raffled during the Smoky Mountain Quilt Competition and Show to be held April 22 through May 1 at the American Museum of Science and Energy.

What does the future hold for the talented Memphis native? She said another book is a possibility, "one with completely new patterns."

— C.R.L.

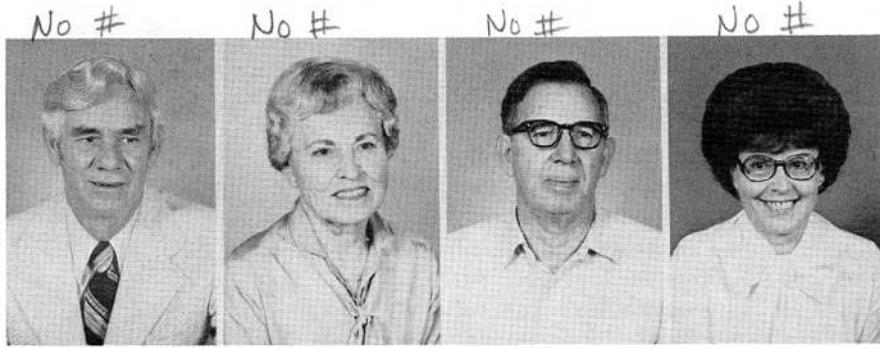


DISPLAYING HER HANDIWORK — Alice Richardson holds a copy of "Tennessee Quilting" as she displays the quilt made from 15 original patterns found in the book.

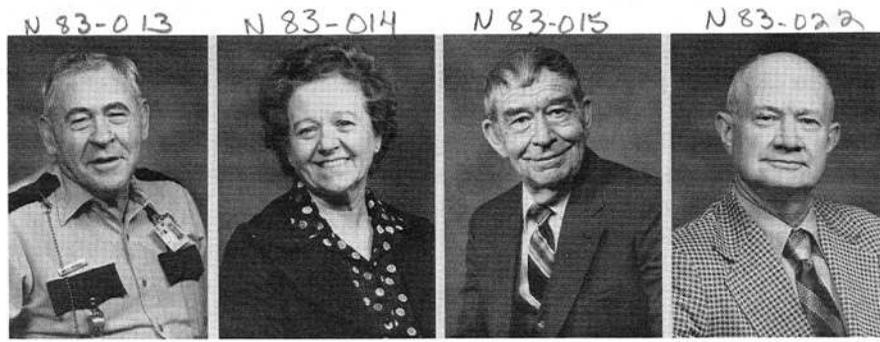


WITH CO-AUTHORS — Alice Richardson (right) displays the "Tennessee quilt" at a special international exhibit at UT's McClung Museum. Accompanying her are "Tennessee Quilting" co-authors Judy Elwood (left) and Joyce Tennery.

Recent Retirements



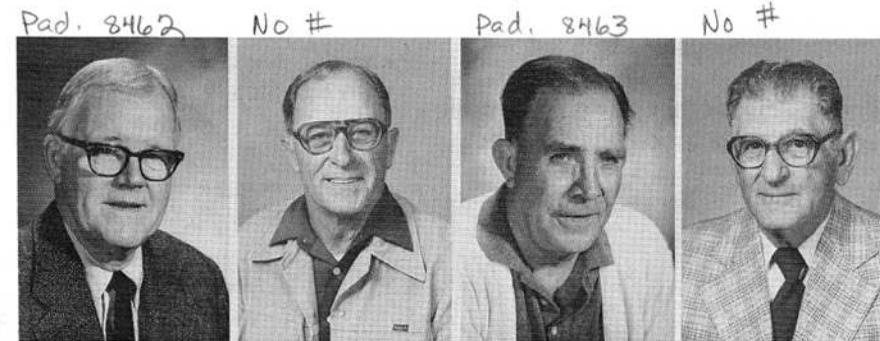
Earl C. Palmer Operations ORGDP 37 years service	Helen F. Murphy Purchasing ORGDP 32 years service	Thomas C. Sain Technical Services ORGDP 21 years service	Marilyn B. Canterbury Technical Manager's Division ORGDP 37 years service
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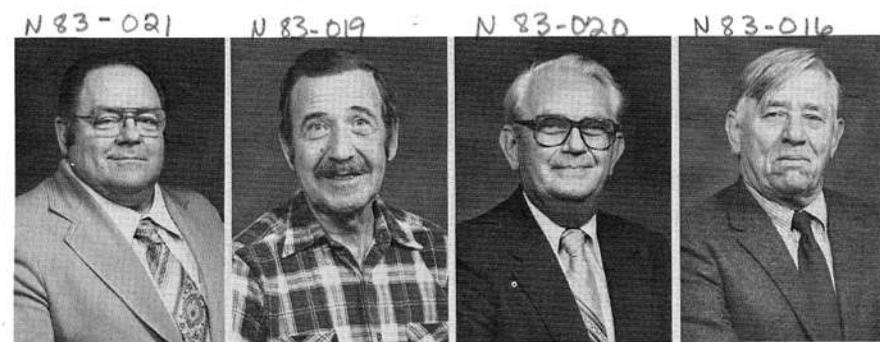
John F. Bruce Security, Plant Protection and Utilities Y-12 37 years service	Juanita H. Easley Production Certification Y-12 38 years service	James B. Sykes Plant Managers Y-12 37 years service	Ray Gregory Fabrication Y-12 34 years service
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Allen D. Ryon Chemical Technology ORNL 38 years service	Crave R. Page Operations ORGDP 38 years service	Frances L. Ball Analytical Chemistry ORNL 33 years service	Kenneth S. Lyle Plant and Equipment ORNL 34 years service
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David D. Barclay Finance and Materials Paducah 21 years service	Howard J. Rash Operations ORGDP 37 years service	Julius M. Sparkman Maintenance Paducah 29 years service	Hubert Childs Maintenance ORGDP 38 years service
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Henry H. Nicholson Metal Preparation Y-12 34 years service	Jesse L. Donahue Technical Y-12 28 years service	Hardin S. Lane Metal Preparation Y-12 31 years service	William T. Luffman Fabrication Y-12 35 years service
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PLANNING FOR ORGDP DRIVE — Members of the planning committee for the ORGDP Medic blood drive, set for February 16-18, include, seated, from left: Tom Allen; Ann Farrar; Michelle Moore; Jean Drennen, Medic representative; Jim Lane; Bill Rundle; and Bob Kiser. Standing, from left, are: Allen Henegar; Rex McNutt; Roy Fenstermaker, drive chairman; Donna Waddell; Don Tevault; Lonnie Anthony; Anna Jackson; Chuck Stevenson; Christy Griffith; R. L. (Phil) Phillips; Betty Benton; and Kathy Gethers.

Service Anniversaries

PADUCAH

20 YEARS
Hershel V. McCollum and Sandra K. Whitaker.

30 YEARS
Billie W. Ross and William G. Beasley, Process Maintenance; Harry M. Champion, Fabrication Shop; Joe M. Crutcher, Process Maintenance; Ezekiel R. Murphey, Quality Evaluation; Clarence E. Varble, Process Maintenance; and James W. Hill, Fabrication Shop.

20 YEARS
Wilma L. Pease.

ORGDP

35 YEARS
William E. Cooper, General Accounting; Glen E. Harber, Finance, Materials and Services; and Gilbert G. Jones, Computer Sciences.

30 YEARS
Delbert Bivens, Engineering; Joseph B. Marshall, Finance, Materials and Services; and Robert A. Williamson, Engineering.

20 YEARS
Hershel V. McCollum and Sandra K. Whitaker.

ORNL

35 YEARS
James T. Wiggins, Chemical Technology; Frank C. Zapp, Engineering Technology; and Elliott Volkin, Biology.

30 YEARS
Charles O. Balch, Plant and Equipment; Harry E. Trotter, Plant and Equipment; Walter P. Kinser Jr., Instrumentation and Controls; Paul P. Haydon, Engineering Technology; and William K. Russell, Fusion Energy.

25 YEARS
James Lowell Langford, William R. Morton and Doris C. Smith.

20 YEARS
Bert A. Denning Jr., Jamesena W. Taylor and Robert L. Hendren.



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