

Corporate world . . .

Union Carbide Corporation's worldwide sales for 1981 increased two percent over the previous year, to a record \$10.17 billion, according to preliminary data. Net income was \$649 million, four percent below the comparable 1980 total of \$672.6 million. Earnings per share, based on a larger number of shares outstanding, were \$9.56, five percent below comparable 1980 earnings of \$10.08 per share.

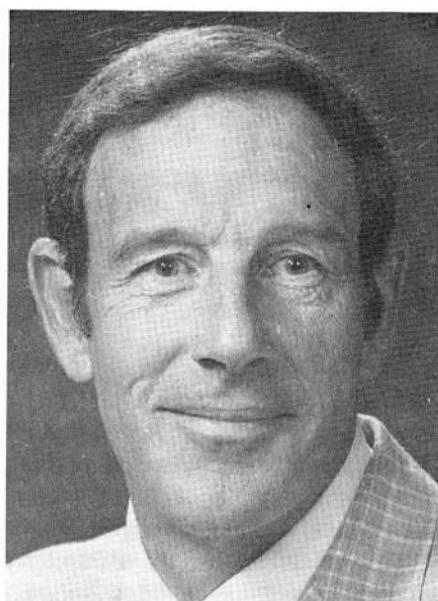
"We are very pleased with our 1981 performance in the domestic market, which represents more than two-thirds of our sales and net income," said Warren M. Anderson, chairman of the board and chief executive officer of Union Carbide. "Despite a sharp economic downturn in the U. S. in the second half of 1981, our domestic business held up well," he said.

Fourth quarter 1981 net income was \$139.8 million, six percent below the comparable 1980 total of \$149 million. Earnings per share for the quarter were \$2.04, compared to \$2.21 a year ago.

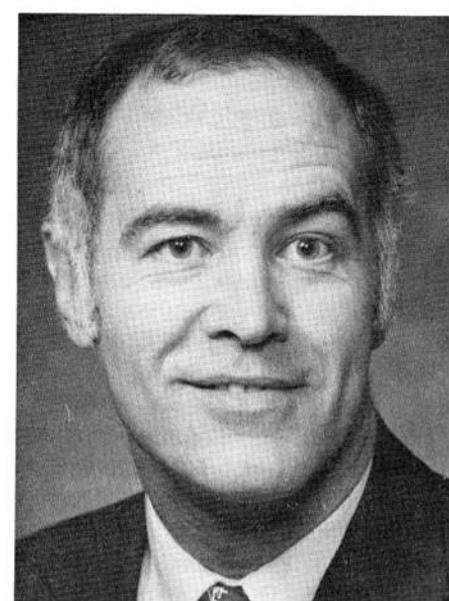
Fourth quarter net income was favorably impacted by a lower than normal tax rate, which was largely the result of a higher proportion of income derived from Puerto Rico and other lower-taxed international entities.



James C. White



D. Jeffrey Bostock



David L. Mason

Major Y-12 appointments announced

Three major appointments and several organizational changes at the Y-12 Plant have been announced by Gordon G. Fee, plant manager.

James C. White has been named manager of Technical Services and Plant Protection; D. Jeffrey Bostock is manager of a newly established Industrial Engineering Division; and David L. Mason will manage a new Health, Safety and Environmental Affairs Division.

White has served as manager for Technical Services at Y-12 and

ORGDP since 1976. In his new position, he will have responsibility for Y-12's Security, Plant Protection and Utilities Division; the Product Certification Division; the Health, Safety and Environmental Affairs Division; and Classification and Technical Information activities.

A native of Fort Wayne, Ind., White received his bachelor's degree from Indiana University and his master's and PhD degrees from Ohio State University. He joined the Nuclear Division at ORNL in 1950.

Served as division director

White served as a group leader in the Analytical Chemistry Division until 1960 when he became assistant director in charge of research and development. He was named associate director in 1967 and in 1972 became Analytical Chemistry Division director.

White is a fellow of the American Association for the Advancement of Science, the American Institute of Chemists and the American Chemical Society. He holds memberships in several other professional organizations.

He is married to the former Mary L. Frechtling, and they have four children. The Whites live at 5425 Sheandoah Drive, Knoxville.

New responsibilities

As Industrial Engineering Division manager, Bostock's responsibilities will include Product Engineering; Program Scheduling and Inventory Control; Computer-Aided Design; Manufacturing and Information; Restoration Program and Capital Requirements Coordination; Production Optimization; and Administrative Services.

Bostock, who most recently was head of the Y-12 Capital Projects organization, joined the Nuclear Divi-

sion staff at ORGDP in 1957. A native of Bethesda, Md., he received his bachelor's degree in engineering from Pennsylvania State University and his master's degree in industrial management from the University of Tennessee.

Bostock transferred to the Y-12 Plant in 1960. He held positions in dispatching, management systems and production control prior to his appointment as head of the Metal Preparation Division in 1976. He served as manager of the Assembly Division from 1980 to 1981.

Bostock and his wife, Dorothy, live at 925 West Outer Drive, Oak Ridge. They have three children.

Heads new division

The new Health, Safety and Environmental Affairs Division, headed by Mason, will provide a focal point for plant activities in the areas of employee health, radiation safety, industrial safety and nuclear materials accountability, as well as environmental affairs.

Mason is from Clarksville, Tenn. He received his bachelor's degree from Austin Peay State University and his PhD degree from the University of Florida, both in physics.

Prior to joining the Nuclear Division in 1968, he worked on his dissertation at the ORNL Isochronous Cyclotron under an Oak Ridge Associated Universities graduate fellowship.

He is past president of both the Linden School Parent-Teachers Association and the Oak Ridge Boys' Club. He currently serves as president of the Tennessee area Council of Boys' Clubs and is a director of the Oak Ridge Rotary Club. He and his wife, Judith, live at 139 Windham Road, Oak Ridge. They have two children.



CARBIDE TO GIVE \$20,000 TO YWCA — Union Carbide will give \$20,000 toward construction of a new YWCA facility in Oak Ridge. Announcement of the gift was made by Roger F. Hibbs, Nuclear Division president. Shown reviewing plans for the new facility are, from left: Melvin S. Sturm, member of the YWCA capital campaign committee; Mrs. Nancy Stanley, chairperson of the committee; Hibbs; and Mrs. Jessie Noritake, president of the Oak Ridge Girls Club. The new building will house Girls Club facilities.

'Cheshire' keeps things humming in ORGDP Mail Department

"Cheshire" weighs 890 pounds and is able to label about 20,000 pieces of mail in an hour! He speaks a language — thu dom, thu dom, eskist, thu dom, eskist, eskist — that few people understand. Evelyn Moore shares her interpretation of Cheshire's language: "It's telling me the timing is good. When it sounds like this, I know it's running the way it should."

Cheshire is an addressing machine located in the ORGDP Mail Department. Before it was purchased in July, 1980, a smaller machine was used to handle only ORGDP's mail. Now the plant handles all the Nuclear Division's "mass" mailings, including **Union Carbide World** and **Family Safety** magazines, the **Nuclear Division News**, payroll checks, United Way and benefit plans announcements, as well as all DOE mailings.

Obviously, the Mail Department has a big responsibility; and just in case Cheshire should get "sick" and miss a few days of work, there's a similar addressing machine located at the Y-12 Plant. It is unable to cope with the volume Cheshire handles, but it can be used as a backup.

Evelyn Moore, who has been operating Cheshire since February, says they have a good working relationship. "I enjoy working with him. Sometimes he runs like a dream and at other times working with him can be very frustrating. For example, maybe the vacuum hose will come off or the labels are released before or after they're supposed to be. There are even times when the addressing paper gets jammed.

'Gives us both a chance to cool off.'

"When things like these happen, I just go get a drink of water to give us both a chance to cool off. When I

come back, we can usually get going again," she said.

Every other Wednesday, Moore prepares Cheshire to address more than 24,000 copies of the **Nuclear Division News**. She usually begins by adjusting the paper holder to accommodate the paper's size. The paper must be folded just right. If it's off even a fraction, Cheshire won't accept it. Moore also has to make sure the photo-sensing device, a small light that signals the labeling head to release the labels, is doing its job.

Using tools that look like a monkey wrench, a crowbar and a pair of long-nosed pliers, Moore adjusts the labeling head back and forth until the labels are just where she wants them to appear on the paper. As the newspapers are labeled, they roll onto a three-foot conveyor belt, where they are stacked, tied and bagged.

Mail is tied, bagged and arranged by zip numbers before going to the Oak Ridge Post Office.

According to Hertistine Every, ORGDP Mail Department supervisor, the papers are tied and bagged by zip codes, so that no sorting has to be done when they are taken to the Oak Ridge Post Office. The post office then delivers them to the homes of employees and retirees or to another post office.

When handling the **Nuclear Division News**, **Family Safety** and other large mailings, Virginia Cabe, Bertha Jenkins, Mary White and Mildred Goss assist in operating Cheshire and processing his output. They also serve as back-ups in Moore's absence.

Every estimates that Cheshire labeled more than 1,000,000 pieces of mail during the past fiscal year — a significant increase over last year's 700,000 pieces.



LOTS OF HANDS — Large operations, such as this mailing of *Family Safety* magazine, require assistance by several ORGDP Mail Department employees. Shown from left are Mildred Goss, Bertha Jenkins, Virginia Cabe and Evelyn Moore. Mary White, not pictured, also works with Cheshire in processing mail items.



WATCHING HIM GO — Evelyn Moore, who usually operates Cheshire, stands by with additional copies of *Nuclear Division News*. She can tell by the sound if he's "running like he should."



CHESHIRE BACKUP — Lillian Stallings, Y-12 Mail Department, operates a smaller version of "Cheshire" that is used as a backup.

**UNION
CARBIDE**

Nuclear Division News

Published every other week
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NUCLEAR DIVISION
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**Patrice M. Bullen, Computer
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OF BUSINESS COMMUNICATORS

Union Carbide Retirees Association

UCRA

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For all our friends who went to the "sunny south" to avoid January in Tennessee or Kentucky — we hope you took your thermal underwear!

More than half of the 1982 UCRA memberships received so far are from **new** members. We want to welcome you all!

Paducah news

The Paducah group is having a "changing of the guard." According to "Doc" Trentham, Paducah retiree president, an election of officers will be held during the next meeting Thursday, February 18, at the Bonanza Steak House on Joe Clifton Road. The meeting begins at 5 p.m., and all retirees and widows or widowers of retirees are urged to attend.

Oak Ridge travel news

What: Travel meeting
When: Thursday, February 11, 7 p.m.
Where: Oak Ridge Civic Center - Library Auditorium
Who: All Carbide retirees and friends
Guests: Ed Olszewski, Ruth Jobe and Larry Phillips of U. S. Travels

We promised in our January column that we would meet with Ed and Alice Olszewski, who spent last summer in Alaska. We also invited Ruth and Larry to answer questions and discuss possibilities for future trips. The meeting will begin promptly at 7, because the Library Auditorium closes at 9 p.m.

It may not have been clear on the trip reservation form, but the deposit

is \$25 per person. Our reservation limit is 46 for the Kentucky and Michigan trips and 40 for the Alaska trip. The status of each trip, as of January 25, follows:

Kentucky Derby, April 30-May 2 (\$110)
More than three-fourths full.

Holland, Mich., May 13-20 (\$485)
Full. (A few more deposits may be accepted for *standby* reservations only.)

Alaska, Aug. 11-Sept. 4 (\$1575)
More than three-fourths full.

We have four reservations from Paducah for the Alaska trip (R. A. and Ruth LeDoux and Albert and Carleen Friedmann), and we hope to receive more.

Many trip outlines have been mailed as requested, and those who plan to take one of the trips should send in their deposits as soon as possible to ensure reservations.

UCRA bowling (Oak Ridge)

Not all members of our eight-team bowling league, which rolls each Monday at 1 p.m. at Tri-County Lanes, have the perfect form that Carl Frazier displays in the accompanying photo. But every member, whether a beginner or a long-time bowler, has a great time! Our league officers are: George Bullock, president; Carl Frazier, vice president; M. J. Gibson, secretary; Rubye Ratjen, treasurer; and Bill Bullins, sergeant-at-arms. (Keep watching this column for news of their exploits and others in the league.)

Although the current bowling season has passed the halfway point, we



FRAZIER'S FORM — Carl Frazier, vice president of the UCRA bowling league, demonstrates his delivery during action at Tri-County lanes.

still would like our new members to volunteer to serve as substitute bowlers when needed. We are planning at least a 10-team league for next year, so we will be looking for new regular bowlers at that time. This is a mixed league with two men and two women on each team. Many husbands and wives are members; some bowl on the same team and some don't.

Recent high scores:

Jan. 4 — Scratch game, Frank Adams (201) and Lela Delmonte (189); handicap game, J. McKinney (224) and Marie Brown (229); scratch series, M. J. Gibson (557) and Lela Delmonte (484); handicap series, Frank Adams (622) and Mae Bullins (619).

Jan. 18 — Scratch game, M. J. Gibson (215) and Lela Delmonte (201); handicap game, M. J. Gibson (231) and Lela Delmonte (237); scratch series, M. J. Gibson (539) and Lela Delmonte (503); handicap series, J. H. Moore (599) and Lenore Davis (632).

Jan. 25 — Scratch game, C. E. Jones (214) and Marie Brown (181);

handicap game, C. E. Jones (240) and Marie Brown (233); scratch series (tie) C. E. Jones and M. J. Gibson (both 543) and Al Adams (482); handicap series, C. E. Jones (621) and Marie Brown (637).

(Although it looks as though a few people monopolize the top positions, we do knock out the Gibsons and Delmontes once in a while!)

From our members

Lillian P. Stephenson, widow of Y-12er G. R. Stephenson, recently wrote, "Thank you for allowing me to be a part of the Carbide family." Lillian, we're quoting you because you expressed so well what we're trying to do. Thank you for sharing your thoughts with us.

Last year, Sally M. Malone, widow of Y-12er Eugene Malone, now living in Huntsville, Ala., wrote, "I am enclosing \$5 for my dues and to help on picnics. Y-12 means a lot to me." Sally, you expressed the loyalty so many retirees feel but seldom put into words. We hope every Carbider reads your note and feels good because you care.

Five promoted at Y-12 Plant



Fincher

Kennedy

Mabe

Smith

Five promotions have been announced at the Y-12 Plant: Rodney W. Fincher has been named a supervisor in Assembly; Billy H. Kennedy, a supervisor in Fabrication; Diana B. Mabe, a supervisor in Nuclear Materials Control and Accountability in the Technical Division; Roy L. Smith, a supervisor in Assembly; and James C. Yearwood has been named a welding inspector in Mechanical Inspection.

Fincher, a native of Gastonia, N.C., attended Roane State Community College and is a graduate of the Training and Technology project in Y-12. He joined Union Carbide in 1969, and served in the Tennessee Army National Guard from 1967 to 1973.

He and his wife, the former Susan Martin, live at 108 Sequoia Lane, Oak Ridge. They have one son.

Kennedy, born in Bristol, Va., attended East Tennessee State University, and worked with Raytheon Company before coming to Y-12 in 1976.

Mrs. Kennedy is the former Bernell Cox, and they live at 6616 Cadbury Drive, Knoxville. They have one son.

Mabe, a native of Knoxville, has a BS degree from the University of Tennessee and joined Union Carbide in 1972. She was in Quality Control and Statistical Services before joining the Nuclear Materials Control

and Accountability department in 1978.

She and her husband, Phillip, live at 7000 Chervue Boulevard, Knoxville. They have two sons.

Smith, a native of Caryville, began work in Y-12 in 1969 as an assemblyman. He is also a graduate of the TAT project in Y-12. He worked with the Norris Craft Boat Company before joining Union Carbide.

He and his wife, the former Carolyn Hardwick, live at Route 2, Caryville. They have a son and a daughter.

Yearwood was born in Monroe County, but grew up in Forest Park, Ga. He worked with the University of Tennessee and the Tennessee Valley Authority before coming to Y-12 in 1977.

Mrs. Yearwood is the former Brenda Noland, and they have a son and daughter. The Yearwoods live at Route 4, Kingston.

Changes told in Engineering

Several organizational changes have been announced by Finis S. Patton, manager of Nuclear Division Engineering.

James A. Parsons has been appointed senior engineering consultant. Ron W. Glass succeeds Parsons as manager of Process Engineering. William J. Nichol has been assigned to the Restoration Projects Management Team at Y-12. James W. Gregory succeeds Nichol as manager of Construction Engineering. James E. Beavers was appointed manager of Civil, Architectural and Site Engineering, replacing Gregory.

A native of South Dakota, Parsons received a BS degree in chemical engineering from the South Dakota School of Mines and Technology. He began his career with Union Carbide in 1944 at SAM Labs, New York City.

Parsons has held various technical and managerial positions at the Oak Ridge Gaseous Diffusion Plant, and had served as manager of process engineering since 1976. His professional memberships include the National Society of Professional Engineers and the Institute of Nuclear Materials Management. In 1981, he was elected "eminent engineer" by Tau Beta Pi engineering society.

Glass is a native of Leachville, Ark. He received a bachelor's degree from the University of Arkansas, and his master's and doctorate degrees in

chemical engineering from Clemson University. While in college, he was the recipient of a National Aeronautics and Space Administration traineeship and a National Defense Education Administration fellowship.

Glass joined ORNL's Chemical Technology Division in 1970. He was named head of the engineering coordination and analysis section in 1975, and served for four years as fossil energy evaluations manager for the fossil energy program. In 1981, he was appointed deputy manager of process engineering.

Nichol is a native Tennessean. He received a BS degree in civil engineering from the University of Tennessee and is registered as a professional engineer in Tennessee.

Before joining the Nuclear Division in 1958, he served with the U.S. Navy and worked for several engineering and construction companies. Since 1973, Nichol had served as superintendent for construction activities at ORNL, ORGDP and the Y-12 Plant.

Gregory was born in Ontario, Canada, and grew up in Titusville, Pa. He received a BS degree in civil engineering from Case Western Reserve University, and has done graduate study at the University of Tennessee. He was formerly employed by Curtis Wright Corporation and Builders Structural Steel Corporation.



Glass



Parsons



Gregory

He joined the Nuclear Division in 1949 and has served as head of Civil and Architectural Engineering since 1970. Gregory is a registered professional engineer in Tennessee, and is a member and past president of the Oak Ridge Chapter, Tennessee Society of Professional Engineers.

Beavers was born in Illinois and grew up in Missouri. He received a BS degree in civil engineering from the University of Missouri and MS and PhD degrees in structural engineering from Vanderbilt University.

Prior to joining the Nuclear Division in 1970, he served with the U.S. Army where he received an Army Commendation Medal for research efforts. He also taught at Vanderbilt University. Most recently he has had a special assignment related to the ability of Nuclear Division structures and equipment to withstand seismic



Nichol



Beavers

occurrences, specifically earthquakes.

In 1977, Beavers was selected as the "Outstanding Young Engineer" by the National Society of Professional Engineers. He served as president of the Knoxville Branch of the American Society of Civil Engineers in 1980.

Save Energy / Share The Ride

ORNL

VAN POOL RIDER NEEDED from West Knoxville area (Bearden through Farragut) to main portals, 8-4:30. Dean Treadway, plant phone 4-6580; home phone 584-4879.

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.

JOIN or FORM CAR POOL from Bearden/Rocky Hill area, Knoxville, to East or other portals, 8-4:30. T. J. McGill, plant phone 4-6090; home phone 691-7938.

Surplus sale set for February 10

A used government office equipment and vehicle spot bid sale began January 25. Inspection may be made from 8:10 a.m. until 4:15 p.m. through February 9, including Saturday.

Bids and inspections are made at the ORGDP Powerhouse area, Building K-722, off State Highway 58. Bids will be opened at 9 a.m. February 10. Additional information may be obtained from D. R. McCammon, Sales Office, UCCND, P.O. Box M, Oak Ridge, or by phoning 576-1451.

Y-12

RIDER NEEDED from Papermill Road/Bearden area, West Knoxville, to North and Central Portals, 7:30-4:00. Donald Prater, plant phone 4-2566; home phone 588-0766.

VAN POOL RIDERS WANTED from LaFollette to all portals, 8-4:30. Jerry Owens, plant phone 4-1046.

JOIN CAR POOL from Campbell Station Road, West Knoxville, to West Portal, 8-4:30 shift. Ved Gupta, plant phone 6-4587; home phone Knoxville 966-0870.

VAN POOL RIDERS from Karns to East and Central Portals, 8-4:30 shift. Rat Pollard, home phone Knoxville 947-6951.

RIDERS from Harragut, LaFollette, Caryville, etc. to West Portal, E Shift. Jim Lancaster, plant phone 4-2093; home phone LaFollette 562-2899.

CAR POOL MEMBER WANTED from Broadacres Subdivision/Emory Road area, 7:30-4. B. W. Williams, plant phone 4-3797.

ORGDP

BUS SERVICE AVAILABLE from Roane County to all portals, 8-4:30 shift. Phone Richard Peck at 882-5150 (home).

Army Nuclear Chemical Agency visits

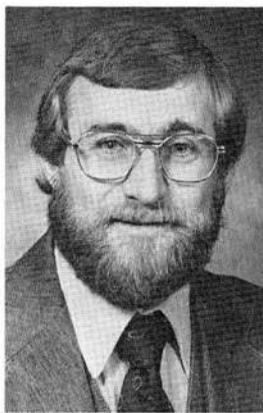


ARMY REPS — Staff of the Army Nuclear and Chemical Agency (ANCA) visited the Y-12 Plant recently for briefings on weapons production activities. This group, headed by Maj. Gen. Miles Fulwyler, coordinates the nuclear weapons program for the Department of the Army. Production Machinist Joseph Paul Nadeau (seated) demonstrates while Process Engineer Harold A. Fell (foreground) explains the operation of a piece of equipment in the A-Wing Machine Shop, Fabrication Division. Visitors are, from left, M. R. Theisen, director of DOE-ORO's Weapons Division; Col. Donald D. Kunard, chief, ANCA Operations Division; Col. Donald J. Fitchett, chief, ANCA Materials and Safety Division; General Fulwyler; Col. Lawrence E. Minnich, chief, ANCA Weapon Effects Division; and Charles N. Davidson, ANCA technical director.

Alexander named to state board

William A. Alexander of ORNL's Industrial Safety and Applied Health Physics Division has been appointed by Tennessee Governor Lamar Alexander as one of 16 lay members of the State Medical Malpractice Board for the East Tennessee area. As a board member, he will hear medical malpractice suits, along with an attorney and a representative from the medical field, to determine whether the cases merit being presented in a court of law.

Alexander, an acting group supervisor in the Department of Environmental Management, joined Union Carbide in 1975. He holds a BS from Tennessee Technological University and an MS from the University of Tennessee. Alexander is a member of the Health Physics Society.



Alexander

Taxes deducted from sick pay

Effective January 1, 1982, Social Security (F.I.C.A.) taxes are being deducted from employees' pay checks when they are absent from work due to sickness or accidents. Such payments were previously exempt from Social Security Tax, but will now be deducted for up to six months.

This includes payments made by a third party, such as an insurance carrier, and applies to contributions by both employees and employers. The only payments excluded are those made under a workman's compensation law.

Robert H. Dilworth named technical assistant at ORNL

Robert H. Dilworth has been named technical assistant to Murray W. Rosenthal, associate director for advanced energy systems at ORNL.

Dilworth succeeds Jeffrey E. Christian, who has completed a two-year assignment and will return to the Energy Division to conduct research on the conservation potential of innovative construction techniques.

Dilworth will assist Rosenthal in administering programs carried out in the Energy and Fusion Energy Divisions and in support of the development of advanced technologies in the areas of conservation and renewable energy, fossil energy and fusion, as well as assessments of energy alternatives and their potential economic, social, health and environmental impacts.

Dilworth, an engineering physics graduate of the University of Tennessee, joined Union Carbide in 1956. He was co-inventor in 1959 of a pencil-size personal radiation monitoring instrument still in use in the nuclear industry. He was in private



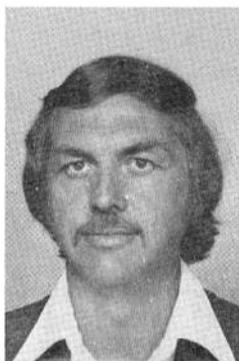
Dilworth

business in Oak Ridge from 1962 until 1977, when he returned to the Laboratory's Fusion Energy program.

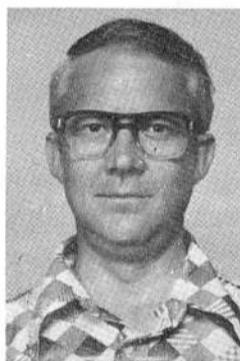
He is a senior member of the Institute of Electrical and Electronics Engineers, a member of Tau Beta Pi honorary engineering fraternity, and a director of Tennelec, Inc., and The Nucleus, Inc., high-technology firms in Oak Ridge.

He and his wife, Johanna, live in Concord, Tenn.

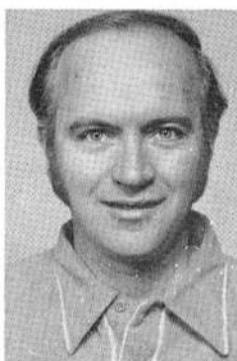
News About People



Appleton



Boatner



Larson



Narayan



White



Wood

ORNLers involved in MRS meeting

Members of the ORNL Solid State Division played key roles as organizers and participants in the 1981 meeting of the Materials Research Society, held recently in Boston.

C. W. White served as one of three program cochairmen for the meeting, which attracted an international attendance of some 1200 scientists. Bill R. Appleton was cochairman for the symposium on "Laser and Electron Beam Interactions with Solids" at which 11 ORNL papers were presented on fundamental mechanisms, elemental semiconductors, defects and annealing, ion implantation and pulsed-beam annealing and compound semiconductors. White, B. C. Larson and J. Narayan, all of Solid State, gave invited talks. Richard Wood chaired a session on solar cells as part of another sym-

posium on "Grain Boundaries in Semiconductors." And Lynn A. Boatner served on the program committee and as session chairman for an international symposium on the "Scientific Basis for Nuclear Waste Management."

ORNL materials science research in the Solid State, Metals and Ceramics and Chemical Technology Divisions was represented by a total of 27 papers.

Next issue...

The next issue will be dated February 18. The deadline is Tuesday, February 9.

Ekkebus heads reference department

Allen E. Ekkebus has been named to head the reference department in the Central Research Library at ORNL.

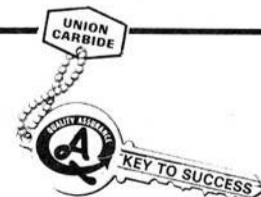
Ekkebus, who is a member of the Information Division staff, comes to ORNL from Indianapolis, where he was employed at P. R. Mallory & Co., Inc., and the Indianapolis-Marion County Public Library. At the Indianapolis Public Library he was head of the Central Services Office and responsible for computer-based literature searches and the information center.

A native of Milwaukee, Ekkebus received a BS in physics from St. Procopius College, Lisle, Ill.; an MS in physics from Ohio University; and an MS in library science from Northern Illinois University. He holds memberships in the American Library Association and the Special Libraries Association.

Ekkebus and his wife, the former Susan Avila, live at 175 Tacoma Road, Oak Ridge. They have one daughter.



Ekkebus



"Assurance of quality assures satisfaction."
(Submitted by Lawrence Landau, ORNL.)



SECOND PLACE WINNERS — Deb's Dribbles played up to par during Paducah's 1981 golf season to capture the second place honors at the plant. Back from left are Patti Turok, Rachel Ford and Loretta Hollis. Front from left are Debbie Blagg, Jane Chapman and Linda Spees.

Bowling alley notes...

ORNL A...

The Half Frames keep a good lead in ORNL A League's alley action. Recent highs went to Joe Sawicki, 665 handicap series; Bob Roussin, 245 single game. The Limits took team highs, posting a 3072 handicap series.

Family Mixed...

Ron Le Tellier rolled a 220, 257 single game recently to post high in the Carbide Family Mixed League. Tillie Plaza took a 535, 792 series on the women's side.

K-25 Tuesday...

The Mishaps and Atoms grabbed an early lead in the K-25 Tuesday Bowling competition as the season's second half got underway. Harold Gunter, All Stars, rolled a 248, 271 single and a 596, 665 series to take immediate highs.

Carbide Wednesday...

The Amps take an early lead in the Carbide Wednesday League, rolling past opponents. Their 3173 series, 1094 single was high in handicap counting. Individual honors went to Leon Hurd, who rolled a 266 game; and to Bob Hagood, who posted a 675 series.

UCC Mixed...

The Tidy Bowlers, Pin Strikes and Scalawags grabbed the lead as the UCC Mixed League rolled into its second half, then got slowed by the snow and ice storm of 1982. Mary Goldberg rolled a 527 series to hold onto the top average in the league, with 175.

Monday Mixed...

The Go-Getters defeated the Pace-setters in the final round of league play in the Monday Mixed Bowling crowd, to claim title to the first-half championship. High scores through the first half include Job Goodman's 614, Cheryl Womack's 627 (both scratch series); Dean Treadway's 233 scratch game; Womack's 242. Additional highs were scored by Walt Dulaney, 700; Andrea Reed, 643 (handicap series); singles by Mike Emery, 255; and Mary Ballard, 253. Lefty Miller recently posted a 204-214-181/599 performance to take third-high series.

Y-12 Classic...

The Has Beens, Pendulums and Tigers all came charging into the second half of the Y-12 Classic Bowling League to take four points from opponents. Ron Korkow, Pendulums, posted a 293 single, 750 pin handicap series to capture highs, helping his team tally a 3105-total-pin count.

Sweetheart Dance

The annual ORNL Instrumentation and Controls Division Sweetheart Dance will be held Saturday, February 27, at 6:30 p.m. at the Oak Ridge Elks Club.

Entertainment for the dinner/dance will include performances by the "Free Spirit" band. The cost is \$15 per person, and reservations may be made by calling Anna Belle Snellings (4-5675) or Lorry Ruth (4-5771). Division retirees are expressly invited.

Safety Scoreboard

Time worked without a lost-time accident through January 28:

Y-12 Plant	13 Days	429,000 Employee-Hours
ORGDP	231 Days	6,093,119 Employee-Hours
ORNL	628 Days	14,629,317 Employee-Hours
Paducah	548 Days	4,849,000 Employee-Hours

Fishing Rodeo winners named...

ORNL

An eight-pound smallmouth bass was pulled from the lakes by Mike Humphreys for the prize ORNL catch of the last half of 1981. Other winners are shown below.

Smallmouth Bass	
J. L. Martin	5 lbs. 6 ozs.
J. L. Moore	4 lbs. 12 ozs.

Largemouth Bass	
Ed Bolling	5 lbs. 13 ozs.
John Murphy	3 lbs. 2 ozs.

Walleyed Pike	
Sam S. Hurt	4 lbs. 2 ozs.
William A. Davis	3 lbs. 13 ozs.
Charles Schaich	3 lbs. 10 ozs.

Crappie	
J. T. Walker	1 lb. 11 ozs.

Sauger	
H. M. Johnson	4 lbs. 6 ozs.
Boyd Wright	4 lbs.

Striped Bass	
Robert Donaldson	3 lbs. 10 ozs.
William J. Martin	3 lbs. 5 ozs.

Sunfish	
Collene P. Ownby	9 ozs.
Vaughn W. Ownby	8 ozs.
W. H. Longaker	6.24 ozs.

Trout	
P. E. Phillips	2 lbs.

Rockfish	
John C. Glowienka	25 lbs.
David A. Everitt	3 lbs. 1 oz.

ORGDP

ORGDP anglers saw Johnny E. Griffis pull a five-pound, one-ounce smallmouth from the water. Other winners were:

Largemouth Bass	
Ralph Stevens	7 lbs. 1 oz.
Eugene A. Smith	7 lbs.
George H. Cox	6 lbs. 4 ozs.

Walleyed Pike	
H. E. Walters	5 lbs. 1 oz.
B. J. Ford	4 lbs. 10 ozs.
W. H. Caylor	3 lbs. 4 ozs.

Striped Bass	
P. D. Brooks	3 lbs. 4 ozs.
A. R. Walters	2 lbs. 2 ozs.
Robert F. Hyland	2 lbs. 1 oz.

Sunfish	
J. P. Adams	9.5 ozs.
Elaine Hipshire	8 ozs.
John A. Aart	6.5 ozs.

Fockfish	
R. E. Collins	21 lbs. 8 ozs.
Donald J. Revault	4 lbs. 13 ozs.

Sauger	
L. W. Clowers	5 lbs.
Joe H. Fletcher	2 lbs. 10 ozs.

Y-12

Archie Hooker hooked the largest smallmouth bass in Y-12's end-of-the-year rodeo with a six-pound, five-ounce lunker. Other winners were:

Smallmouth Bass	
Larry T. Hodge	5 lbs. 6 ozs.
Donald J. Eiler	3 lbs. 12 ozs.

Largemouth Bass	
Michael O. Bowers	12 lbs. 3 ozs.
M. A. Estep	8 lbs.
L. E. Pate	7 lbs. 9 ozs.

Walleyed Pike	
D. L. Jones	7 lbs.
Hoyt A. Eason	5 lbs. 9 ozs.
C. E. Jones	5 lbs. 8 ozs.

Crappie	
John R. Campbell	2 lbs. 3 ozs.
J. N. Wyatt	1 lb. 13 ozs.
Louie Anfinson	1 lb. 12 ozs.

Sauger	
Don Campbell	4 lbs. 10 ozs.
R. S. Phillippi	2 lbs. 15 ozs.
Ralph Ruby	2 lbs. 13 ozs.

Striped Bass	
G. H. Gaylor	2 lbs.
R. Baylor Jr.	1 lb. 3 ozs.

Rockfish	
D. L. Pate	44 lbs.
J. E. Blair	32 lbs. 12 ozs.
H. W. Law	30 lbs. 2 ozs.

Sunfish	
Michael C. Showalter	1 lb. 6 ozs.
Lysander Waters	6 ozs.

Trout	
F. K. Ellison	2 lbs. 4 ozs.

Rough Fish	
E. M. McCullough	15 lbs.

Anniversaries

ORNL

35 YEARS

Jesse Miniard, Instrumentation and Controls.

30 YEARS

William G. Tatum, Operations; Cleo C. Hendrix Jr., Plant and Equipment; Herman R. Queener, Plant and Equipment; Perry S. Gouge, Analytical Chemistry; Hoke S. Culbertson, Plant and Equipment; and James E. Brooks, Plant and Equipment.

25 YEARS

Barbara L. Rudd and Marion M. Chiles.

20 YEARS

William H. Hamley, Virgil L. Ridenour and Mary M. Boyd.

PADUCAH

30 YEARS

James H. Armstrong, Quality Evaluation; Eugene R. Charvat, Fabrication Shop; George W. Hollowell, Fabrication Shop; James R. Reese, Power, Utilities and Chemicals; Joseph F. Warren, Lynn B. Yates, Morris F. Shelton, all in Cascade Operations; George A. Vinson, Process Maintenance; and Allen L. Elrod, Fabrication and Maintenance.

25 YEARS

Graydon Jarvis.

20 YEARS

James T. Roper.

New lieutenants named at Y-12

Three new lieutenants have been named in the Fire and Guard Department of Y-12's Plant Protection Division: Steven C. Gibbs, Michael H. Isaacson and Robert G. Winkle Jr.

Gibbs, a native of Knoxville, served on the University of Tennessee security force before joining Union Carbide in 1978. He holds a BS in criminal justice from East Tennessee State University, and served in the U.S. Air Force four years.

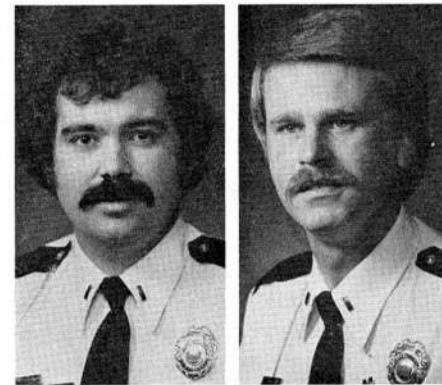
He and his wife, the former Debbie Cochran, live at 5818 Dodge Road, Knoxville, with their two children.

Isaacson was born in Crossville and worked for the city fire department there before joining Union Carbide in 1980.

He and his wife, the former Terry Tabor, live at Route 5, Crossville.

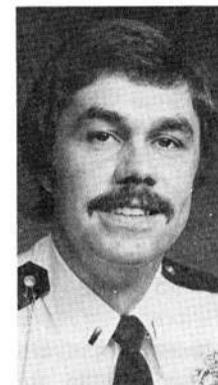
Winkle, a native of Knoxville, is attending Roane State Community College. He served as assistant fire chief with the Metropolitan Knoxville Airport Authority for six years before joining Union Carbide in 1980.

He has a daughter, and lives at Route 51, Westland Drive, Concord.



Gibbs

Isaacson



Winkle

Disque promoted to computer analyst

Thomas E. Disque has been promoted to computer analyst in the Paducah Plant's Cascade Operations Division. Disque earned a BS degree in chemistry and computer science at Murray State University in 1976. He also holds a certificate in basic electronics from the National Radio Institute. Prior to his promotion, he had held positions as an engineering aide and senior engineering assistant.

Disque joined Union Carbide in 1977 and is a native of Mayfield, where he presently resides with his wife, Karen, and daughter.

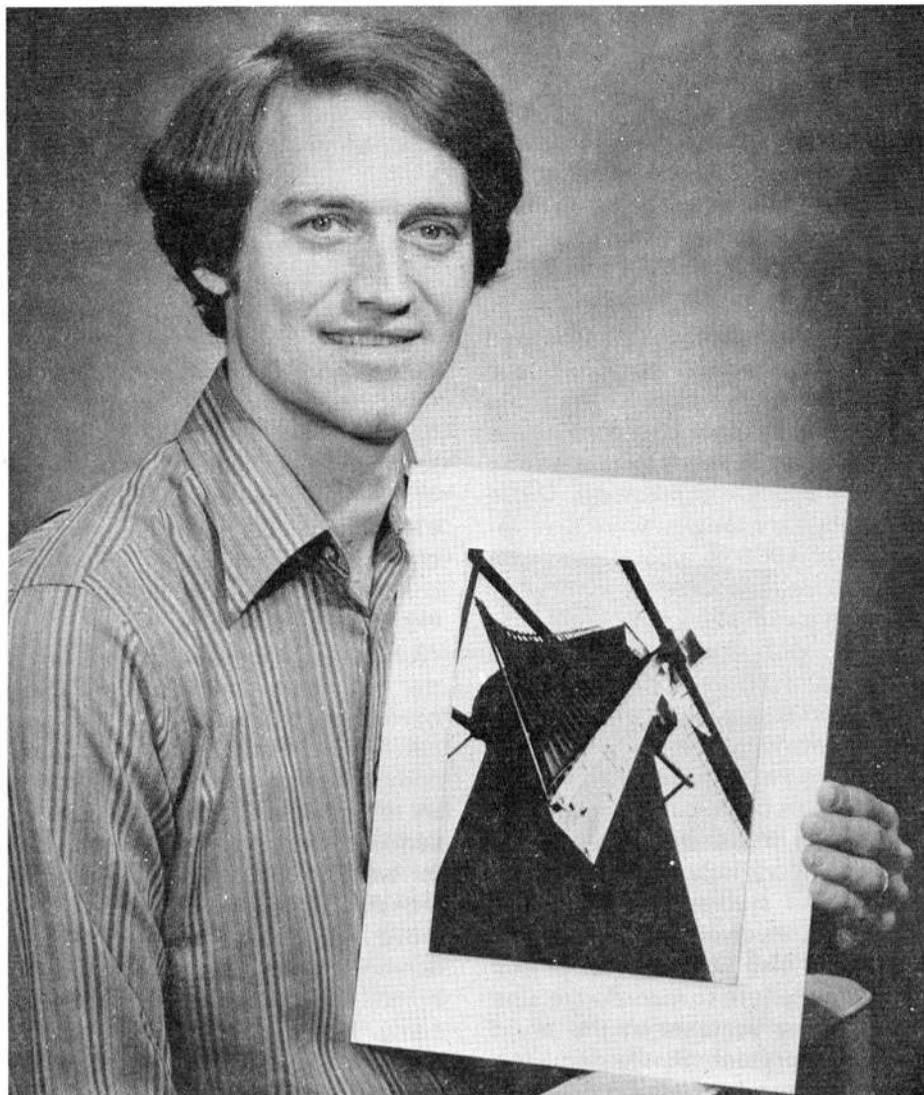
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Disque



ANNIVERSARY MEETING — Members of the ORNL Metals and Ceramics Division recently celebrated the division's 35th anniversary with an alumni reunion and information meeting. Richard J. Beaver, left, and Jack E. Cunningham, associate division director, discussed "old times" with former division member Durwald E. Hamby.



BEST OF SHOW — Ron Webb, Paducah, took honors in the photographic contest with his windmill print.

Top entries named in Paducah annual photo competition

In the seven-category photographic contest at Paducah last year, Ron Webb won the ribbon for the "best of show." His study of a windmill swept the competition.

Other winners in different categories were:

Objects, large format

Reynold LeDoux
Dennis Frazee
Ron Webb

Objects, small format

Tom Nancy
Betty Barbre
Robert Vogel

People, large format

J. R. Story
Linda Spees
Lorn Honey

People, small format

Tom Nancy
Linda Spees
J. R. Story

Places, large format

Ron Dierolf
Jenny Schnuck
Jimmy Holm

Places, small format

Linda Spees
Lorn Honey
Tom Nance

Open, large format

Jenny Schnuck
Jimmy Holm
Dennis Frazee

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
September 81	19.8058	48.3865	11.8043
October 81	19.9596	47.9908	12.2710
November 81	20.1151	48.0180	12.6966
December 81	20.2727	50.6990	12.5180

Note: Fixed Income Fund unit values reflect interest additions to achieve the guaranteed effective annual interest rate of 9.75% for 1981. 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.



Our most important health problem

by T. A. Lincoln, M.D.

Ask yourself, "What is the most important long-range medical problem that confronts this country?" If you answered, "cancer" or "heart disease," try again. The answer must be the approximately two million aged citizens with problems related to mental deterioration.

During the past 15 years, there has been a dramatic increase in the number of Americans who live to age 85, generally thought to be the average natural life expectancy. Currently, there are more than 22 million people over age 65 in the U. S., and this number is increasing rapidly.

As people reach advanced ages, many become unable to care for themselves and are placed in nursing homes. Physical disability is one important reason for entry into a nursing home, but intellectual impairment is far more important.

Symptoms of impairment

Problems of memory, particularly of recent or short-term memory, are early symptoms of such impairment. Potentially dangerous memory lapses could include failure to turn off the oven or the iron. Patients with this syndrome often experience periods of confusion and may become lost in familiar surroundings. They may fail to pay bills or to organize normal daily functions. These persons may become agitated, irritable and uncooperative and allow personal habits and appearance to deteriorate.

Because relatives of these patients often have their own families to manage and may have to go to work each day or be away from home periodically,

they may feel compelled to put their loved ones in the protective environment of a nursing home.

Nursing home admissions

Current estimates indicate that intellectual impairment is the basic cause for 50 to 75 percent of nursing home admissions and is a major contributing factor in many of the other cases. Many people who are physically disabled but still could take care of themselves have to be put into nursing homes because their mental capacities have deteriorated.

Mental decline associated with age affects over two million Americans and costs well over \$10 billion each year. It is estimated that this annual cost could rise to \$30 to \$40 billion in a few years. One family out of three can expect at least one parent to develop sufficient intellectual impairment to require nursing home care.

Senility and other myths

Senility is a misleading word with no real medical meaning. Its use has led to the myth that intellectual impairment is a natural part of the aging process. It has also led to the common idea that brain deterioration is due to hardening of the arteries. Both of these ideas are absolutely false.

The proper term is senile dementia, which refers to the gradual development of widespread intellectual impairment associated with age. Sometimes this impairment occurs at a relatively early age, even during the patient's early 50's, and is called pre-senile dementia. This disorder is

a syndrome, a collection of symptoms and signs. Most of the cases, however, are due to clear-cut disease states. The most common form, Alzheimer's disease (pronounced Altz'hi-merz), is found in 50 to 60 percent of elderly persons with mental impairment.

Alzheimer's disease

Alzheimer's disease is associated with a degenerative change in the proteins of nerve cells in the brain cortex. Under the microscope, these cells appear to have degenerated and look like a tangle of filaments. These neurofibrillary tangles were first described in 1906 by Alos Alzheimer, a German neurologist.

It has been shown recently that patients with Alzheimer's disease suffer as much as a 90 percent reduction in a specific brain enzyme, choline acetyltransferase, which is involved in the manufacture of acetyl choline. This chemical is an essential part of the transmission of certain types of nerve impulses, and pharmacological studies show that the enzyme is involved in the memory process. It also has been suggested that some failure to incorporate zinc into enzyme systems in the brain may be important. Senile dementia seems to have a genetic component,

but it is not just an inevitable aging or hereditary process. Most people die from organic diseases, with their intellectual functions virtually intact until their deaths.

Other causes

Multiple small strokes cause about 20 percent of the cases of senile dementia. Some of these are related to cases of chronic high blood pressure or poorly controlled diabetes. At least 20 percent of the cases of senile dementia are reversible. These are related to improper use of medicine, metabolic diseases, depression, alcoholism or other potentially changeable conditions.

If we continue to live with the expectation that most of our aged citizens will eventually be housed in nursing homes, we must put aside many more billions of dollars than we currently are doing. However, developing a vigorous research program to try to understand the basic causes of senile dementia and to develop better ways to prevent or treat this depressing condition appears to be a more logical approach. Senile dementia is not just hereditary, nor is it an inevitable consequence of aging. It is the result of a group of definite and possibly treatable conditions.

Question Box

Why are increases delayed?

QUESTION: I am a nonexempt salaried employee and should have received an increase in January but did not. What's going on?

ANSWER: Nuclear Division salary programs require approval of the Department of Energy. There has been a delay in obtaining approval this year. When approval is obtained, increases which would normally have been granted in January and February will be granted retroactively so that the employees involved will suffer no loss.

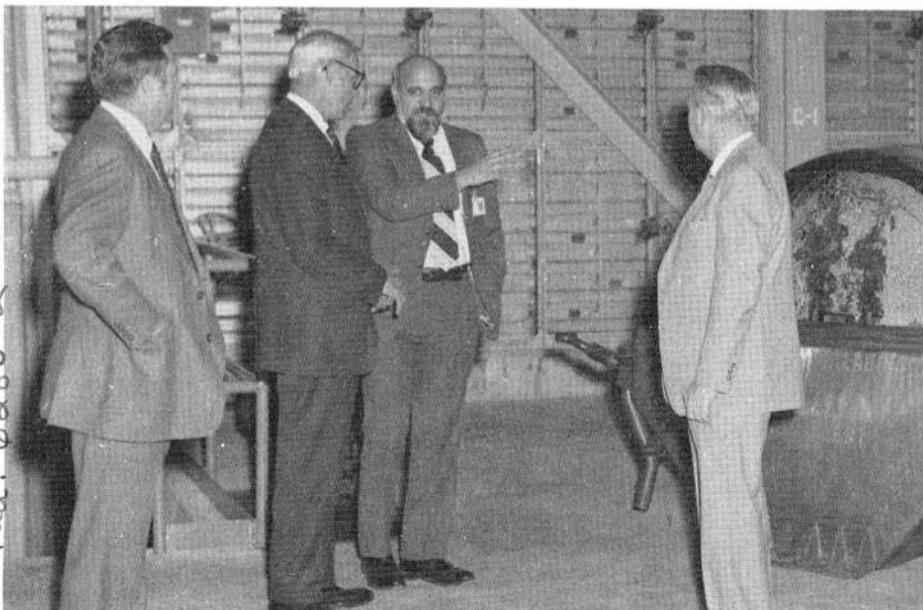
Separate safety meetings

QUESTION: Why do nonsmokers have to sit in safety meetings with people who smoke? Why can't there be two safety meetings — one for smokers and one for non-smokers?

ANSWER: Separate meetings for

smokers and nonsmokers would present difficult scheduling and logistics problems and would diminish the opportunity for information exchange among employees having common interest and safety concerns.

There is a reasonable consensus that cigarette smoking is harmful to the health of those who smoke. There is no unanimity of opinion concerning the health effects of sitting or working near people who do smoke. It is recognized that it is annoying for some to do so, and it is suggested that where practical all smokers be seated in one section of the meeting room. The health effects of smoking have been the subject of a number of safety meetings. You might suggest it as a topic for a future meeting of your group.



ANDERSON VISITS PADUCAH — Warren M. Anderson, chairman of the board and chief executive officer of Union Carbide Corporation, visited the Paducah Plant recently during the facility's 30th anniversary. From left are Clyde C. Hopkins, vice president of the Nuclear Division; Anderson; Dan H. Stitt, Technical Services at Paducah; and Clayton D. Zerby, Paducah Plant manager.

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