

280-97



## Inventors get plaudits at luncheon

The Nuclear Division honored 1979's inventors last week at a special luncheon at the Holiday Inn. Some 100 researchers, scientists and specialists heard Robert M. Milton, UCC's associate director of corporate technology. He invented Linde's molecular sieves and hi-flux heat exchangers, two developments which brought Carbide the distinguished Kirkpatrick awards for chemical engineering progress.

Last year, the Department of Energy filed 44 patent applications on inventions in the four facilities. Inventions arising from the diffusion plants include barrier improvements, cascade equipment improvements, and improved UF<sub>6</sub> recovery techniques. Developments originating in Separation Systems relate to improvements in design and control of mechanical equipment.

### Varied processes

Y-12's inventions involve innovations in carbon and graphite processing, ultra-precision machining including laser mirror fabrication, improvements in alloy and metallurgical processing, advanced isotope separation studies and management of industrial waste materials.

Inventions at ORNL include innovations in advanced fuel development, materials development, fusion research, nuclear fuel reprocessing, research in alternate energy sources, management of industrial wastes and advancement in instrumentation technology.

It was pointed out that during the past year, 6,300 documents were reviewed and 316 potential inventions reported.

(Please turn to page 8)

Nuclear Division President Roger F. Hibbs praises inventors

## Evening MBA program begins for Oak Ridge residents in fall

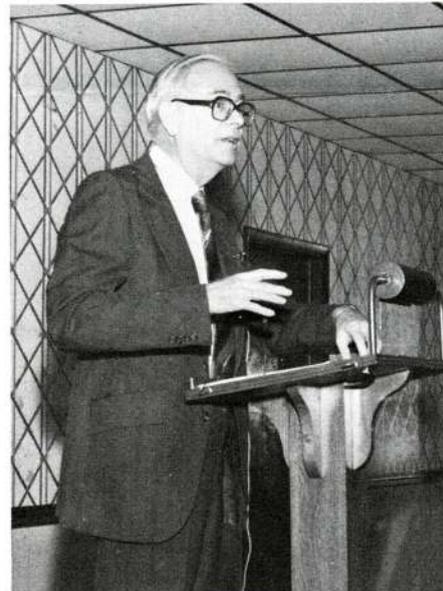
Oak Ridge residents will have the opportunity to begin evening classes in a Master of Business Administration program this fall. The Oak Ridge Resident Graduate Program of the University of Tennessee is tailored to meet the needs of full-time employees. The four-year program is designed to prepare men and women to assume executive, managerial and professional positions.

Applicants for the program must take the GMAT exam to be given July 12 at the UT Physics Building. Applications for the GMAT must be submitted to the university by July 1.

Other requirements for registration include two official college transcripts, completion of a calculus course within the past three years and two letters of recommendation from supervisors. These should be submitted to the program office at ORAU, 246 Laboratory Road, Oak Ridge.

Course requirements are listed in UT's 1980 Graduate Studies Catalog. The full program consists of 28 courses of 84 quarter hours.

For further information, contact the program office at 6-3429 any afternoon.



Robert M. Milton  
UCC's associate director  
of corporate technology



## In this issue...

Union Carbide Retirees Association recently staged another successful picnic at the Clark Center Recreation Park. Scenes from the event are found on page 4.

Other features:

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## Paducah retirees plan July picnic

The Paducah Retirees Association has set a picnic July 11, 6:30 p.m. at Noble Park. The picnic will be "pot luck." Bread and drinks will be provided by the association.

All retirees, ex-Carbiders and their spouses are invited to attend. The association also asks that participants bring chairs, card tables, cards and other games for an evening of "relaxing recreation and just plain 'ole association and reminiscing," says D. L. Trentham, association president. You do not have to be a member to attend.



# Vasectomy and heart problems

by T. A. Lincoln, M.D.

*(Editor's Note: Dr. Lincoln alternates his regular column with "The Medicine Chest," where he answers questions from employees concerning health in general. Questions are handled in strict confidence, as they are handled in our Question Box. Just address your question to "Medicine Chest," NUCLEAR DIVISION NEWS, Building 9704-2, Stop 21, Y-12, or call the news editor in your plant, and give him or her your question on the telephone.)*

**QUESTION:** During a ski trip, I met a cardiologist who advised me that there was some evidence suggesting a cause/effect relationship between the vasectomy operation and heart-related problems. Please discuss this evidence.

**ANSWER:** When one considers that over 750,000 men in the U.S. undergo vasectomy operations each year, any possible long-term harmful effects are of concern.

The vasectomy is a simple operation during which the duct on each side of the scrotum is tied and a portion removed. The sperm normally travel through these ducts before ejaculation. After a vasectomy, sperm cells continue to be formed, but they can no longer leave the testes.

*Over 750,000 men in the U.S. undergo vasectomy operations each year.*

These retained sperm cells degenerate, releasing minute quantities of sperm proteins into circulation. These proteins come in contact with the immune system, which regards them as "foreign." As a consequence, the patient develops antibodies against his own sperm proteins. These autoantibodies can eventually be found in about half the men who have had vasectomies and they continue to be formed for many years.

The principal effect of these antibodies is to reduce fertility. If the tubes are rejoined, sperm cells reappear in the ejaculate but are often sterile.

Two studies strongly suggest that monkeys who have had vasectomies are more vulnerable to atherosclerosis. In the first study, 10 monkeys were fed a high-fat diet for 6 months and 5 of them were vasectomized. All 10 remained on the same diet for 10 months and were then killed. An autopsy revealed significantly more atherosclerosis in the vasectomized than in the nonvasectomized monkeys.

In the second and more significant experiment, 10 vasectomized and 8 control monkeys were observed for 9 to 14 years. They were fed monkey chow that was devoid of cholesterol

and low in fat. When these animals were autopsied, the extent of the atherosclerosis was appreciably greater in the vasectomized group. The size, thickness and content of stainable lipid in the atherosclerotic plaques (patches) were evaluated several times by the pathologist, who did not know whether the specimens came from vasectomized or normal monkeys.

*The data supports some type of injury to arteries making them prone to atherosclerosis.*

The differences in the location and severity of atherosclerosis were statistically significant. They were most noticeable in the abdominal aorta, where control animals had plaques that covered an average of 4.5 percent of the artery surface, while those in the long-term vasectomy group had an average surface involvement of 34.6 percent. The data seem to support the concept of some type of immunologic injury to arteries that makes them more prone to atherosclerosis.

In several major studies, men have been observed for 2 to 4 years after a vasectomy, and no excess of autoimmune, cardiovascular or endocrine diseases has been found. However, it may take 20 to 40 years to determine whether any subtle health effects will occur.

*Men who have had a vasectomy could probably overcome its effects easily by avoiding smoking and remaining physically fit.*

There appears to be a need for only a preliminary cautionary flag at this time. No hazard to general human health has been revealed. If this vulnerability to atherosclerosis is ever confirmed in humans, some method to prevent the immune reaction may have to be found. Since the effect is probably small, men who have had a vasectomy could probably overcome it easily by avoiding smoking and remaining physically fit.

# Wilbanks named associate director of Energy Division

32-33-80

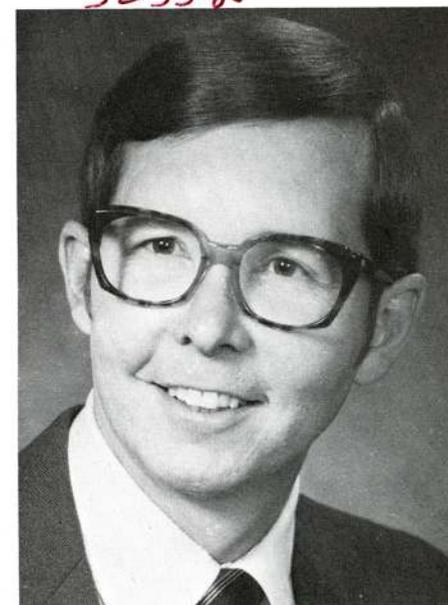
The appointment of Thomas J. Wilbanks as associate director of the Energy Division at ORNL has been announced by Murray W. Rosenthal, ORNL associate director for advanced energy systems.

Wilbanks joined the Division as senior planner in 1977. In his new position, he will be responsible for regional integrated analysis, model and data validation, and conservation and solar energy strategy studies. He will also oversee the division's social sciences research and will continue to lead divisional planning activities.

A native of Texarkana, Ark., Wilbanks received his bachelor's degree in social science from Trinity University and his MS and PhD degrees in geography from Syracuse University.

He came to ORNL from the University of Oklahoma, where he was chairman of the department of geography and a research fellow in the "sciences and public policy program" for four years. Previously, he worked at Syracuse University as executive director of the Urban Transportation Institute, research director of the Syracuse-Yugoslav Project on Environmental Policy and Planning, and assistant professor of geography.

Wilbanks has served as a consultant to several state and



Thomas J. Wilbanks

federal agencies, including DOE's predecessor, the Energy Research and Development Administration, and the Office of Technology Assessment. He is a member of the Association of American Geographers, American Association for the Advancement of Science, the American Academy of Political and Social Sciences and several other professional organizations.

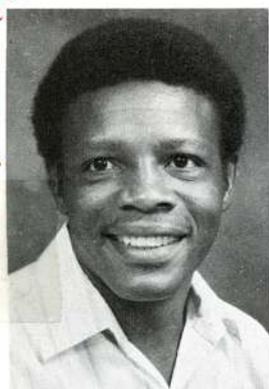
He and his wife, Kay, live in Knoxville with their children, Kathy, Lisa and John.

## Safety Scoreboard

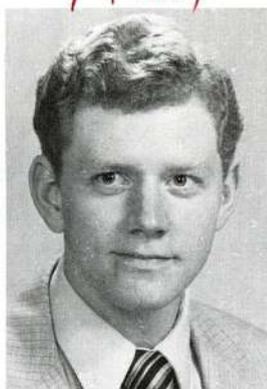
Time worked without a lost-time accident through June 19:			
ORNL	40 Days	969,478	Employee-Hours
Y-12 Plant	198 Days	6,848,000	Employee-Hours
Paducah	6 Days	60,000	Employee-Hours
ORGDP	136 Days	4,302,985	Employee-Hours



**ATTEND CONGRESSIONAL SEMINAR**—Three Union Carbide scholars met Congresswoman Marilyn Bouquard as they attended the week-long Washington Workshop Congressional Seminar. The annual event was attended by 143 students from around the country. From left are Margaret Cooper, Powell; Congresswoman Bouquard; Nell R. Burrus, Oak Ridge; and Michael W. Humphrey, Harriman. This is the 10th year Carbide has been a major supporter of the program.



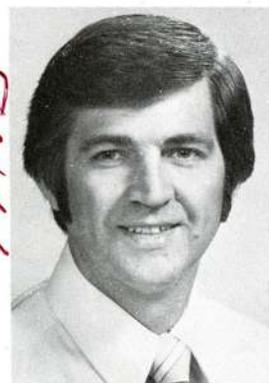
Beasley



Hammer



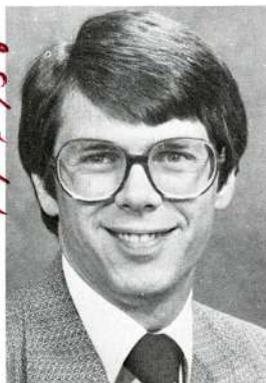
Hodges



Jones



Weaver



Webb

## Six promoted at Y-12

Six promotions have been announced at the Y-12 Plant. Albert Beasley is a new engineer in Fabrication; Arthur H. Hammer, a statistician with Quality Engineering; William O. Hodges, an accounting analyst in Materials and Services; Wendell W. Jones, a procedures specialist in Product Engineering and Scheduling; Robert Terry Weaver, an employee relations representative in Employment; and William H. Webb, an accounting analyst in Product Engineering and Scheduling.

Beasley, a native of Savannah, Ga., has a BS degree in civil engineering technology from Savannah State College. He joined Union Carbide in 1978.

Mrs. Beasley is the former Mildred Duncan, and the couple lives at 205 Alder Lane, Oak Ridge.

Hammer was born in Knox County and holds an MBA from the University of Tennessee. He came to Y-12 in 1979.

His wife is the former Nancy Gose and they live at 7515 May Chapel Road, Halls Crossroads.

Hodges, a native of Schenectady, N.Y., worked with Lancaster Associates and served in the U. S. Air Force before joining Union Carbide in 1977. He has a BS in accounting from East Tennessee State University.

He and his wife, the former Joyce Finchum, live at 1809 Strathmore Road, Knoxville.

Jones, a native of Oakdale, attended Roane State Community College and the University of Tennessee. He worked at the Harriman Hosiery Company and served in the U. S. Navy before joining Union Carbide in 1967.

Mrs. Jones is the former Mona Duncan, and they live at Route 8, Harriman. They have two children, Bradley and Amy.

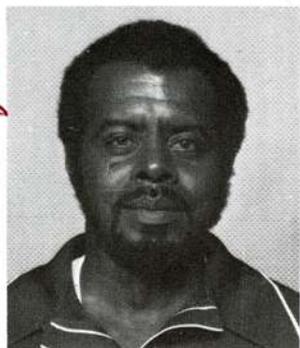
Weaver was born in Knoxville but spent most of his life in Oak Ridge. He graduated from Knoxville College and has a master's degree from the University of Tennessee. He joined Union Carbide in 1977 after working with the United Way of Knoxville and the Food and Drug Administration.

He recently transferred from the Separation Systems Division at ORGDP. Weaver lives at 115 Bethune Circle, Oak Ridge.

Webb was born in Athens, and has a BS degree from the University of Tennessee. He worked at Tom Mitchell Buick in Atlanta before joining Union Carbide in 1969.

He and his wife, the former Sharon Williams, live in Cedar Hills, Lenoir City. They have a son, Shawn.

## Alvin L. Bradley promoted at ORNL



Bradley

Alvin L. Bradley has been named a supervisor, buildings and grounds, in ORNL's Operations Division. Before joining Carbide in 1969, he worked in the Medical Center Building in Knoxville. Bradley, a Knoxville native, also served in the Air Force.

During his free time, Bradley enjoys fishing and cabinet-making. He is married to the former Ella Jean Billingsley, and they live at 5416 Harris Avenue, Knoxville. They have one son, Michael.

## Question Box

### Can employees belong to KKK and keep security clearance?

#### KKK membership

QUESTION: Can Nuclear Division employees belong to the Ku Klux Klan and still keep their security clearances?

ANSWER: Eligibility for clearance is a matter between an individual and the Department of Energy (DOE). UCC-ND is not involved in the decision. DOE advises that the regulations used by them for determining eligibility are published in 10 Code of Federal Regulations, Part 710.

#### Wearing badge in public

QUESTION: In my orientation while hiring in at Y-12, I was told not to wear my identification badge in public. I see fellow employees all the time in public with their badges on. Is this rule enforced?

ANSWER: The Y-12 new-hire security orientation program normally does not address wearing of identification badges in public. During orientation, attendees are cautioned not to lose their identification badge; and it is quite possible that during a particular session a statement was made to the effect that wearing the badge in public might increase the chance of its being lost.

#### Reclaiming aluminum

QUESTION: Could the Nuclear Division provide a depository for aluminum for reclamation? The

proceeds could be given to the United Way.

ANSWER: Recycling of soft drink cans is practical only if they are 100% aluminum. Ones at the Oak Ridge installations contain steel and/or tin components, and for that reason recycling is not economical.

The Paducah Plant is presently being supplied soft drinks in 100% aluminum cans, and a recycling feasibility study is currently being conducted at that installation. A decision regarding disposal of the cans at Paducah will be made when the results of that study are completed.

#### Park swimming

QUESTION: Has any consideration been given to keeping the swimming area at the park open on evenings and weekends past Labor Day? The water is just getting warmed up enough to swim in by then.

ANSWER: The park opened this year on April 7 and will close on September 30. The park office opens at 8:30 a.m. and closes at 11 p.m. From mid-June through September 1, lifeguards are on duty from 10 a.m. to 9 p.m. daily, except Monday when their hours are 1-9 p.m. The park's seasonal personnel assignments are temporary and are, for the most part, filled by qualified students and teachers who need to return to their regular careers.

Visitors to the park are reminded, as signs indicate, that they swim at their own risk.

80-1952



ORGDP'S 1980 UNITED WAY COMMITTEE includes, seated from left, Truman Trotter; Jack Hodge; Mike Willard; Dave Rupert; Vickie Smith; Bob Cable, chairman; Kathy Coleman; Lee Ford; Paul Melroy; Jim Heiskell and Joe Sawicki. Standing, from left, are Charlie Allen, John Owen and Buck Alexander. Pete Peterson is not pictured.

280-641

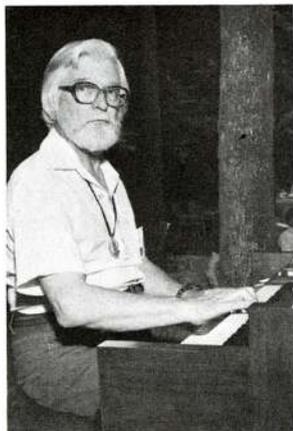
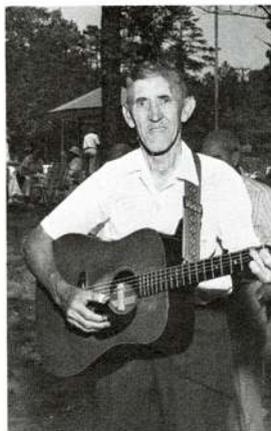
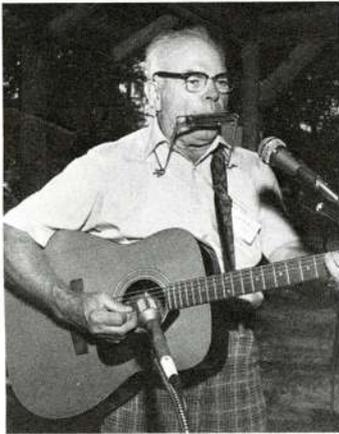
# 350 attend Retirees Association picnic at Park



Union Carbide Retirees Association held another successful picnic recently at the Clark Center Recreation Park. Music, provided by the retirees themselves (with newly retired Fred Heddleson bringing an electronic organ in a pick-up), ran the gamut in tastes.

Out-of-towners included John T. Bell (ORNL '68), Raymond, Miss.; George Ferrell (Y-12 '72), Naples, Fla.; T. W. Morton (ORGDP '72), Charleston, W. Va.; D. L. Trenton (Paducah '77), Paducah; Faye Puryear (ORNL '73), Clearwater, Fla.; and J. T. Jones (ORGDP '69), Huntsville, Ala.

More than 350 retirees, spouses and friends enjoyed the balmy June day at the park, good food and good talk.



# News About People

# Speakers' Bureau promotes public energy understanding

*(Editor's Note: Does the Nuclear Division have a speakers' bureau? Who are the members? To whom do they speak? How can I participate? These are questions that have been asked recently by members of the staff. The following article, written by Speakers' Bureau Coordinator Ruby Miller, attempts to provide answers.)*

The Division's Speakers' Bureau was begun in 1975 by ORNL's Program Planning and Analyses Office. Its purpose is to promote public understanding of all forms of energy and of the Nuclear Division's role in helping to solve energy-related problems.

When it was started, the bureau consisted mainly of ORNL employees who were already involved, individually, in public speaking activities. As the Bureau's first coordinator, Ted Lundy, then on assignment to PP&A, served as a central point of contact for organizations requesting speakers on energy and coordinated arrangements between these groups and members of the staff.

In 1976, this responsibility was assumed by the Public Relations Department, and the bureau was expanded to include all Division facilities. The directory currently includes more than 100 employees from all four plants who have volunteered to speak to interested groups about energy, within limits of available time and program commitments. Other employees are called on as necessary because of their knowledge of a particular area.

### Variety of audiences

During the past four years more than 400 talks have been given under the auspices of the Speakers' Bureau; the majority at educational institutions—mostly at colleges. (Some Nuclear Division employees also visit campuses under the Oak Ridge Associated Universities' Traveling Lecture Program, sponsored as a more formal programmatic activity by DOE.)

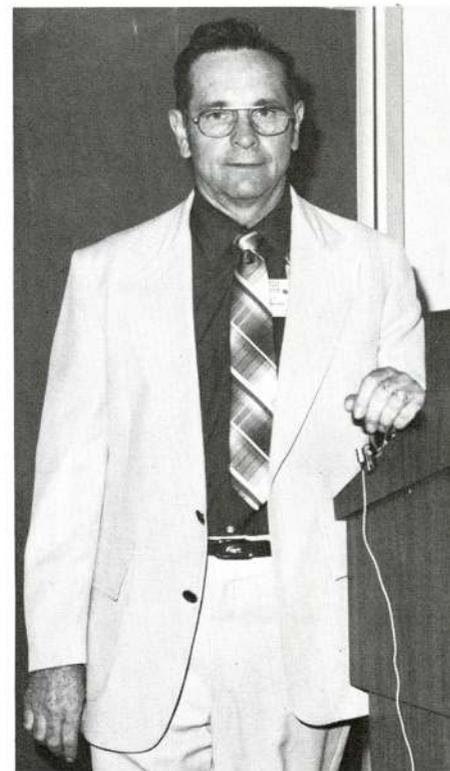
Trade and professional groups, such as the Engineering Science Society, American Railroad and Truck Lines Association and the Society of Women Engineers, make up the second largest group of requesters. A third group consists of community service and civic/social organizations.

In the past couple of years there has been a significant increase in the number of religious groups requesting speakers.

Other requests come from government, business/industry, news media, political and environmental groups.

### Most popular topics

The popularity of topics changes from one year to the next. Since the accident at Three Mile Island, about two-thirds of the requests have been for topics related to nuclear safety and environmental and health effects



**SPEAKERS' BUREAU PARTICIPANT—John Auxier, director of the ORNL Industrial Safety and Applied Health Physics Division, fields questions following a discussion of safety procedures.**

of nuclear energy. Previously, conservation and solar energy were the most popular.

Requests for speakers on clean fuels from coal and fusion research have remained at about the same level. A talk on "energy supply, demand and technology" continues to be very much in demand because it gives general information on and makes comparisons between different energy sources.

There is no charge to organizations for services provided by the Speakers' Bureau. However, travel is usually limited to Tennessee and surrounding states. Organizations are asked to make their requests at least two weeks in advance of the speaking date.

### Workshop planned

A pilot workshop to help speakers ensure that their talks are understandable to general or "lay" audiences and to provide them with information on how to react when they are exposed to hostile groups is planned for next fall. Included will be an opportunity for the speakers to "see themselves as others see them" through videotaping of their talks.

If you are interested in joining the Speakers' Bureau, send biographical information and the title of the subject on which you would like to speak to Ruby Miller, 4500-N, K-254, ORNL; or phone 4-4165.

Chain T. Liu, ORNL Metals and Ceramics Division, has received the first Henry J. Albert Award of International Precious Metals Institute. He was honored for the development of a family of thorium-doped iridium-base alloys to encapsulate the plutonium-238 used as fuel in radioisotope thermoelectric generators for space missions. One of his alloys was used aboard the Voyager 1 and 2 space probes to Jupiter and Saturn. An improved version of the earlier alloy will be used in two future probes.

The award, which will be annual, recognizes and encourages outstanding theoretical or experimental contributions to the metallurgy of precious metals. Liu will receive the award at the Fourth



Liu

Annual IPMI conference in Toronto in June, where he will describe some of the significant areas of precious metals research and development with which he has been involved.

Division of the National Secretaries Association (NSA), at the association's recent annual meeting in Chattanooga. She will automatically become president at next year's annual meeting.

A native of Ewing, Va., she has a BA in business education from Lincoln Memorial University and was certified as a professional secretary in 1976. She and her husband live at 290 Illinois Avenue, Oak Ridge. He is in ORNL's Plant and Equipment Division.

The Tennessee Division consists of 20 chapters of NSA, with a total membership of 894. The international group has a membership of over 40,000.



Queener

Ellen B. Queener, ORGDP Maintenance Division, has been named president-elect of the Tennessee

Michael J. Bartkus, Systems and Equipment Technology Department at ORGDP, has been awarded the John S. Swoape plaque by District III of the Instrument Society of America. The award, presented at the recent ISA conference and exhibit in Orlando, Fla., recognizes Bartkus for service to his local section, his community activities and the promotion of instrumentation technology.

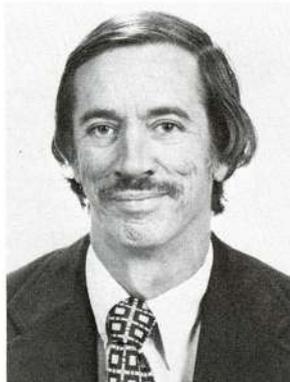
A 34-year Union Carbide veteran, Bartkus has a BS degree in electrical engineering from New York University.



Bartkus

Division, has been elected a fellow in the American Society for Metals. The honor, to be conferred in October at the annual awards dinner, represents recognition of distinguished contributions in the field of metals and materials, and develops a broadly based forum for technical and professional leaders to serve as advisors to the ASM.

Koger, who joined Union Carbide at ORNL in 1967, transferred to Y-12 in 1973. He has a BS degree from Georgia Institute of Technology and an MS in metallurgy from the University of Florida.



Koger

John W. Koger, superintendent of Metallurgy in Y-12's Development

80-1907



## ORGDP's Doug Nelson takes honors in Dogwood Arts Festival Pistol Match

Douglas G. Nelson, a security inspector in the Security and Plant Protection Division at ORGDP, took top matches in the first annual Dogwood Arts Festival Pistol Match held early this spring.

The match, held at the Knoxville Police Department Training Academy, Blount County, consisted of an open 1,500 possible competition with two- and four-member competing teams. Nelson took match one, three and four; the first master in match two; and the overall Dogwood Arts Festival grand aggregate championship.

### Bowling standings:

#### Monday Mixed...

Charlie's Angels took the Monday Mixed winter league. On the team were Charlie and Retha Beal, Vivian Varner and Harold Kline. In the summer league, Good Luck 4 exploded the first night by posting 744/2002 highs. Bill Muenzer rolled a 214/579 while Barbie Warren turned in a 199 and Mildred Gregg a 544. The summer league, joined most of the other leagues, voted to use 80 percent handicaps.

#### Summer League...

The Smooth Stokers and Rollers tied for first place in the Summer Family Mixed League. The Pinsetters took second place. Bowlers-of-the-week were Elmer Johnson with a 204-210-224=638 for men; Arnetha Johnson a 255-183-214=652 for women. Edith Duckworth rolled a 220-239-198=657 series also.

Nelson is an active member of the Carbide Blue Pistol team and has been selected for the "Governor's Twenty" which represents the top 20 combat shooters in the state.

### Paducah bowling...

The Paducah Plant Men's Bowling tournament and roll-off were held recently with winners in the individual game and series categories. First place for game went to Dennis Stokes with a 267. Second place game was won by Andy Mason with a 259. A 237 won Richard Neftzger the third place spot.

In the series competition, "Jeep" Charvat won first place with a 657. Kurt Hardman took second place with a 641. Third place went to Bob McMunn with a 635.

The roll-off between first half and second half winners left the Pumpers as Paducah's first place team. The second place position went to the Scrappers.

### Ken Turnage wins ETD tournament

The ORNL Engineering Technology Division's Third Annual Duffers' Golf Tournament was held recently at Southwest Point in Kingston, with Ken Turnage claiming the championship. Bill Montgomery and Jim Teague took second and third places.

Flight winners were Ken Turnage, first; Tom Hill, second; Roy Huddleston, third; and Clyde Montgomery, fourth.

## Mid-June softball standings:

Only five teams stand tall now in the Carbide Softball Leagues, as the 73-team, five-league competition reaches mid-season rankings.

League standings follow:

#### Carbon League - East Division

Name	Won	Lost
QA&I	7	0
K-Traitors	7	0
Fes-Kids	6	1
Bareskins	5	2
Sluggers	4	3
Ringers	4	3
Pirates	4	3
Streakers	4	3
Superstar's	3	4
Crippled Turkeys	3	4
Knockers	3	4
Killer Bees	2	5
Coneheads	2	5
Bear Creek All Stars	1	6
Wizards	1	6
Tom's Turkeys	0	7

#### Carbon League - Central Division

Name	Won	Lost
Luda Loptas	8	0
Master Batters	7	1
More Knockers	7	1
P.O.I.'s	5	2
Wild Turkeys	5	2
Skinks	6	3
Uptowners	5	3
Fed II	5	3
The Gauss House Gang	4	4
Fuzz Ballz	3	5
Pop-Ups	3	5
Pits	2	4
Our Gang	1	7
Fed I	1	7
Zilogs	0	6
The Argonauts	0	9

#### Carbon League - West Division

Name	Won	Lost
Sparks	7	0
Seven + Three	7	1
Moneychangers	5	2
Bombers	5	3
Gordon's Golden Flakes	5	3
Stonefingers	4	3
Whirlybirds	4	4
Moxies	4	4
Odds and Ends	3	4
The Loose Balls	3	4
Super-Subs	3	4
"Tape" Worms	3	4
Bits and Pieces	3	5
Rat House Gang	2	6
Rivets	2	6
Three Up Three Down	0	7

#### Atomic League - North Division

Name	Won	Lost
Snakes	6	0
Shifters	5	1
Gashouse Gang	5	1
Blue Demons	5	2
Dynamics	5	3
B. T. Express	5	3
Bruins	4	3
Electric Bananas	4	3
Rangers	2	5
ESD Pits	2	6
War Hogs	1	5
A-Shifters	1	6
Critical Mess	0	7

#### Atomic League - South Division

Name	Won	Lost
Mama's Best	7	1
Thunderdogs	7	1
Prime Time Players	7	1
Mutagents	6	2
Infra-Red Sox	5	3
Magnum Force	4	3
Arties Army	4	4
Short Circuits	3	4
Bat-O-Matics	1	6
Ole Ruff & Ready Gang	1	6
The Starters	0	7
Innovators	0	7

## Save Energy... Share The Ride

#### Y-12 Plant

JOIN or FORM CAR or VAN POOL from Sutherland Avenue area, West Knoxville, to Central or West Portal, 8-4:30. Betsy Scott, plant phone 4-3467; home phone Knoxville 588-5618.

#### ORNL

CAR POOL MEMBER (for five-person pool) from West Town to East Portal, 8:15-4:45 shift. Wilma Nichols, plant phone 4-6688, home phone Knoxville 588-5187.

RIDE from Harriman to East or West Portal, 8-4:30. Jim Hensley, plant phone 4-4140; home phone 882-5524.

ONE or TWO CAR POOL MEMBERS from Kingston to East

Portal, 8-4:30. M. J. Skinner, plant phone 4-4178; home phone 376-6894.

#### ORGDP

BUS RIDERS from Cumberland Estates, via Oak Ridge Highway, to Portals 1, 2, 3, 4, 7, 8 and 9, straight day. Gale Helton, plant phone 6-4601, home phone Knoxville 690-3949.

BUS RIDERS from Rockwood to Portals 2, 4, 7, 8, 9 and 5. R. K. Hull, plant phone 6-0204, home phone Harriman, 882-5618.

JOIN CAR or VAN POOL from Norris, 7:30 a.m. to 4 p.m. Can meet at Green Valley Truck Stop. Vernice Varner, plant phone 4-8850, home phone Norris 494-7341.

### Paducah fishing...

The winning entries have been determined for the April-May 1980 Crappie and Black Bass contests.

First place in the crappie category went to Rudy Hines for a 3 lb. 4½ oz. fish. Second prize went to Jackie Bennett for a 2 lb. 10 oz. crappie. E. N. Krinard grabbed a closely contested third place prize with a 2 lb. 7 oz. crappie. There were 13 entries in the crappie contest.

In the black bass contest, first place went to R. L. Jones with an 8 lb. 4 oz. bass. Michael Thompson took second place with an 8 lb. 1 oz. fish, and a 6 lb. 6 oz. bass won the third place prize for Hardy Pottinger.

There are still fishing contests currently underway and coming up later in the year. The bream contest runs through June 30. Contests for catfish and stripe bass run from June 1 through July 31.

# RECENT RETIREMENTS

# American Nuclear Society cites eight staff members



**James P. Stepp Jr.**  
Maintenance  
Y-12  
11 years service



**William R. Jackson**  
Guard Department  
Y-12  
26 years service



**Carlos R. Vanover**  
Barrier Manufacturing  
ORGDP  
34 years service



**Thomas A. Huffine**  
Engineering  
ORGDP  
10 years service



**Grady L. Nichols**  
Can Fabrication  
Y-12  
29 years service



**William E. Brown**  
Maintenance  
ORGDP  
33 years service



**James A. Weldon**  
Special Services  
Y-12  
29 years service



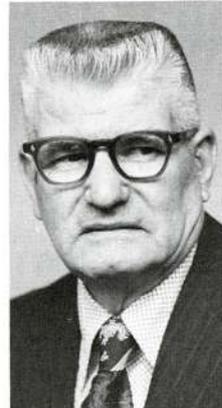
**Samuel T. Shultz**  
Can Fabrication  
Y-12  
29 years service



**David O. Davidson**  
Operations  
ORGDP  
35 years service



**William F. Smith**  
Special Services  
Y-12  
29 years service



**William P. Buckner**  
Security, Plant  
Protection, ORGDP  
26 years service



**Robert J. Barnard**  
Computer Sciences  
ORGDP  
32 years service

Eight Division employees have been honored by the American Nuclear Society (ANS).

Betty F. Maskewitz has been appointed a national director; Alfred L. Boch, Herbert G. Duggan, William O. Harms, Paul R. Kasten, Herman Postma and G. Elliott Whitesides have been named fellows; and Enzo Ricci has been elected chair of the society's Isotopes and Radiation Division.

Maskewitz is director of the Engineering Physics and Radiation Shielding Information Centers, the Reactor Safety Research Repository and the NRC Technical Data Management Center, all at ORNL.

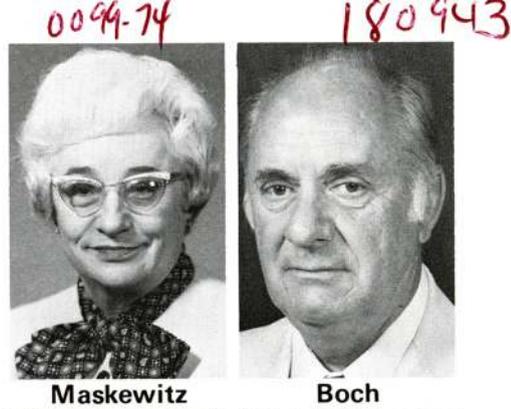
She is one of ten new national directors elected to three-year terms. Their responsibilities include business management and policy formation and implementation for the society.

Boch, who is project manager of the ELMO Bumpy Torus Proof-of-Principle Facility at ORNL, was cited "for the advancement of nuclear science and technology through research contribution and ORNL project management, particularly the planning and engineering design for construction of prototypic facilities such as isotopic separator particle accelerators, Army and Maritime Power Reactors, Molten-Salt Reactor Experiment, High Flux Isotope Reactor, radwaste disposal and fusion energy devices."

Duggan, engineering project manager at ORGDP, was recognized "for his advancement of nuclear engineering and technology through significant contributions to the methods of designing hot cell facilities and the development of remotely operated equipment for the handling and processing of irradiated nuclear fuels and radioactive materials, as well as engineering development of gas centrifuge for the uranium enrichment project."

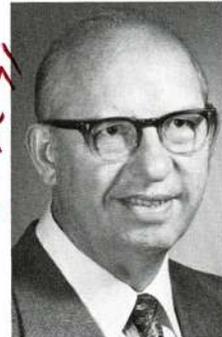
The society cited Harms, director of Nuclear Reactor Technology Programs at ORNL, "for his contributions to the advancement of nuclear technology by conducting and managing nuclear materials research, by teaching university students, by participating in international fuel cycle studies and by coordinating and directing several major fission development programs at ORNL."

Kasten, director of Gas-Cooled Reactor Programs at ORNL, was recognized "for his advancement of nuclear science and engineering, particularly his contributions to the development of the Molten-Salt Breeder Reactor and the High-Temperature Gas-Cooled Reactor; to the understanding and applications of thorium fuel cycles in power



**Maskewitz**

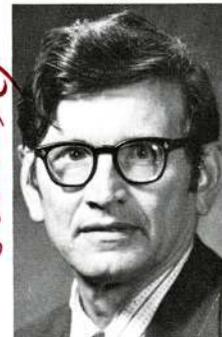
**Boch**



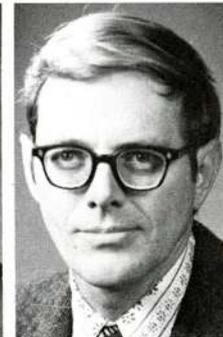
**Duggan**



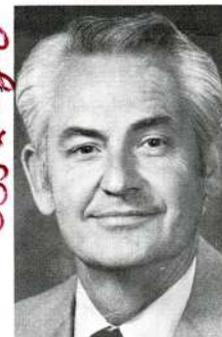
**Harms**



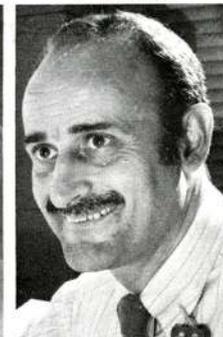
**Kasten**



**Postma**



**Whitesides**



**Ricci**

reactors; and to the education of students and training of personnel."

ORNL Director Postma was cited "for his scientific contributions to the field of fusion energy, for his superb management of the Oak Ridge fusion program and for his leadership as the director of the Oak Ridge National Laboratory."

Whitesides, head of nuclear engineering applications in the Computer Sciences Division at ORNL, was recognized "for his significant contributions to the development and successful application of precise Monte Carlo and discrete ordinates methods for the rigorous mathematical treatment of particle transport and interaction phenomena important to radiation shielding, reactor physics and nuclear criticality safety."

Designation as an ANS fellow is reserved for acknowledged attainment in the nuclear field by

(Please turn to page 8)

## 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
February 80	17.1501	43.2605	10.4763
March 80	17.2734	38.5455	9.6320
April 80	17.4019	38.6371	10.0675
May 80	17.5301	40.7534	10.5271

Note: Fixed Income Fund unit values reflect interest additions to achieve the guaranteed effective annual interest rate of 9.1% for 1980. 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.



**PARTICIPANTS IN THE 10-WEEK CLERICAL PROGRAM** are, from left, Barbara Elder, Computer Sciences; Vernell Moore, instructor; Debra Ballard, Information; Debbie Jones, Biology; Cheryl Buford, Information; Twana Taylor, Quality Assurance and Inspection; Jane Patterson, program coordinator; and Hazel Burns, Health and Safety Research. Patricia Garnett is not pictured.

# Lynn Calvert ORGDP plant protection manager

O. Lynn Calvert has been named manager of Security and Plant Protection at ORGDP, according to an announcement from Kenneth W. Sommerfeld, plant manager. Calvert succeeds C. C. "Mack" McSwain who is retiring.

He joined Union Carbide in 1966 as a computer programmer and worked in Industrial Relations, Toll Enrichment, as Employment manager, affirmative action coordinator, superintendent of Chemical and Toll Enrichment, Operations Health and Safety Officer, K-33 building supervisor and ORGDP reliability review team staff. Most recently he served as superintendent of the Plant Protection Department.



**O. Lynn Calvert**

A native of Pineville, Ky., he has a BS degree from the American University, Washington, D.C., and has done graduate work in business management, computer systems and fire protection.

Active in community affairs, Calvert lives at 114 Everest Circle. Mrs. Calvert is the former Eileen Filicko, and the couple has two sons, John and Matthew.

## Seven complete clerical program

Seven persons recently completed a special ten-week clerical program at ORNL. The program's objective was to increase the number of qualified administrative support applicants, with an emphasis on minority and handicapped applicants for the pilot session.

Participants were selected from applicants who had excellent clerical

capabilities but marginal typing skills.

During the ten-week period, attention was focused on improving typing, telephone and human relation skills.

Seven of the initial eleven trainees met all job requirements and are now in permanent positions at ORNL.

## Anniversaries

### ORGDP

35 YEARS

Walter L. Ford, Computer Sciences; James E. Wise, Maintenance; Cecil A. Carmichael, Security and Plant Protection; Raymond E. Copeland, Maintenance; Glynn J. Riddle, Maintenance; and Freeman Fox, Technical Services.

30 YEARS

Glen L. Kinser, Maintenance.

25 YEARS

Janis Z. Soard, Flossie T. Denton, Kluck U. Berkau and Joseph O. Bishop Jr.

20 YEARS

Shirley G. Goad, William C. McWhorter, Charles A. Hahs and John H. Salts.

### PADUCAH

30 YEARS

Clay C. Zerby, plant manager.

25 YEARS

John W. Tietzen and Robert L. Harris.

20 YEARS

Willard Wilson.

### Y-12 PLANT

35 YEARS

Mabel E. Tyer, Employee Relations; Howard A. Price, Dispatching; Arnold K. Self, Beta 2 Chemistry; and William E. Gross, B-2 Expansion Assembly.

30 YEARS

George W. Sharp, 9215 Rolling Mill; and Avis Collins, Alpha 5 East Shop.

25 YEARS

Jack Conn and William F. May.

20 YEARS

Freeman R. Castleberry, Bruce D. Hale, Hoyt C. Huston and Charles D. Johnson.

### ORNL

35 YEARS

Charles Marlow Jr., Laboratory Protection.

30 YEARS

James W. Burris, Plant and Equipment; Charles M. Carter, Engineering; James H. Greene, Central Management.

25 YEARS

Edward Bolling, George R. Holloway, Willard E. Rogers and Fredrick W. Young Jr.

20 YEARS

John W. Clark, Sam E. Gheesling, Arnold R. Godsey Jr., Stanley R. Larkins, Charles T. Stansberry, Edward M. Shuford and Kenneth R. Wheeler.

## Inventors get plaudits

(Continued from page 1)

Three Nuclear Division developers who have retired recently deserve special recognition: Charles R. Schmitt, from Y-12, was issued 14 patents during his 34-year Carbide Career, with two pending. A total of 51 ideas was submitted, 31 invention disclosures and 19 applications for patents.

Ralph R. Wright, Enrichment Technology at ORGDP, held 10 patents; with two pending. A total of 16 invention disclosures was submitted with 13 applications for patents made.

William G. Fort, who retired from the Centrifuge Project in March, submitted 38 ideas for patent consideration; 21 invention disclosures with 12 applications applied for. He has been issued three

patents (with eight in condition for allowance, which means they are classified.)

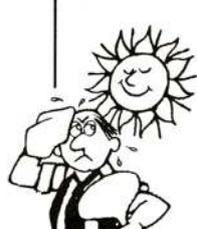
Patents earned in the Nuclear Division are issued in the name of the inventor, but belong to the U.S. government.

## Nuclear Society

(Continued from page 7)

notable original research or invention, by technical leadership of substantial scope, or by outstanding leadership as a teacher.

Ricci, a member of the Operations Analysis and Planning Division at ORGDP, served previously as secretary and vice chairman of the ANS Isotopes and Radiation Division. He is also a member of the Society's national planning committee.

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## Next issue...

The next issue will be dated July 10. The deadline is July 1.