



NUCLEAR DIVISION NEWS

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

Vol. 5 - No. 22

November 21, 1974



"IDENTIFICATION" TASK FORCE — Members of the task force committee on "Identification with the Company" met last week with Roger F. Hibbs, Division President, to discuss the results of their deliberations. Also present was P.C. Fourney, Division Employee Relations Manager. From left are Harvey I. Cobert, Roby C. Kight, Keith G. Kahl, Koleen W. Gentry, Josephine H. Walker, David E. Reichle, Fourney, John A. Auxier, Hibbs, L.A. Dean and J.K. Denton.

New identification systems designed to solve problems

Here's a test of your employee identification IQ:

1. How many different types of employee identification badges are used in the Nuclear Division?

2. How many employees would you say have transferred between Nuclear Division facilities?

3. How much paper work do these transfers entail?

Well, if your answer to Question 1 had been 25, or even 50, you wouldn't have come close. The fact is that at present there are more than 100 different types of identification badges in the Division!

As for Question 2, about 1,000 employees transferred between Nuclear Division facilities in calendar year 1973. And each transfer required the completion of more than a dozen forms.

What do all of these questions have in common? They create large overhead expenses.

These problems will be minimized when the new employee identification system takes effect on January 1, 1975. The new system will require only one identification number rather than the present two (the employee identification number and Social Security number). This will reduce the chance of errors, assuring more accurate records for employees' benefits and other important

records. The Social Security number was selected since government regulations require that each employee have such a number.

Actually, the changeover to the Social Security number is not original with the Nuclear Division. For example, The University of Tennessee has been using Social Security numbers for student identification for more than eight years. Ten states now use the Social Security number as the individual's driver license number. Even the "old faithful" military serial number has fallen before the march of progress. Two years ago the military substituted Social Security numbers for identification purposes.

There are a number of government reports which require employee identification by use of the Social Security number. Among these are the Internal Revenue Service and the Social Security Administration. In addition, requirements of the Occupational Health and Safety Act necessitate giving the Social Security number of an employee injured in an accident.

When the new system takes effect, each employee with a "Q" clearance will have a blue badge, while persons who are cleared but are not Nuclear Division employees will have orange badges. Those with "L" clearances

(Continued on page 8)

Hibbs eyes recommendations with task force committee

Plans for implementing many of the suggestions made by the Nuclear Division Task Force Committee on "Identification with the Company" were discussed by Roger F. Hibbs, Division President, at a meeting last week with committee members.

The committee, which was established at Hibbs' direction earlier this year, had a two-pronged mission: To analyze the results of the Attitude Survey with regard to "Identification with the Company," and to make recommendations to management concerning steps that could be taken to improve employee identification with the Company.

Recommendations by the committee covered five major areas - communication, company identification, recognition, training and recreation. In reviewing recommendations with the committee, Hibbs explained that their report contained many constructive recommendations. "We plan to implement numerous recommendations made in the report. As these actions are taken we will use all channels of communication to keep employees informed," Hibbs explained.

Employee communications

One of the primary concerns of the committee was in the area of communications with employees. Along this line, the committee recommended that the Company review, define and publish the processes which are used in transacting all significant personnel actions, intraplant and interplant transfers, promotions, new hires, personnel reductions, etc.

The Division President told the committee members that he agreed that the Company should be as open as possible with employees in connection with the operations of the Nuclear Division. He added, however, that it is difficult to prepare procedures that will meet the needs of every situation that may develop. "We think it would be worthwhile, though, to have guidelines dealing with the principles involved and we will attempt to do this," he said.

The committee also recommended that benefits be explained in a clear manner. In this area, Hibbs said that the Attitude Survey pointed up this problem. "We will be issuing to each employee in the near future a 'John Q. Carbide' statement showing his or her personal benefit plan standing. We also will continue the series of articles in **Nuclear Division News** on the various benefit plans," he said.

Among other items included in the communications area were job posting for salaried employees, periodic performance reviews, and retirement counseling. Job posting for all non-exempt salaried employees was started July 1, and the program will be reviewed at the end of this year to determine if improvements are needed. Referring to performance reviews, Hibbs explained to the committee that the Nuclear Division has been encouraging this for the last several years. "This is being given greater attention and we would hope that a year from now we would be doing fully what the committee recommends," he stated. He told the members that performance appraisal is a fundamental part of the Union Carbide Management System.

Members of the task force committee on "Identification with the Company" were: John A. Auxier, Director of Health Physics Division, Oak Ridge National Laboratory; John M. Ball, Manager, Labor Relations, Nuclear Division; Harvey I. Cobert, Director of Public Relations, Nuclear Division; L.A. "Tony" Dean, Fabrication Department Superintendent, Paducah Gaseous Diffusion Plant; J.K. "Jake" Denton, Manager of Accounting, Nuclear Division; Koleen W. Gentry, Secretary, Shift Superintendents and Utilities Division, Y-12 Plant; Keith G. Kahl, Superintendent, Fabrication Division, Y-12 Plant; Roby C. Kight, Associate Chemist, Laboratory Division, Paducah Gaseous Diffusion Plant; David E. Reichle, Research Staff Member, Environmental Sciences Division, Oak Ridge National Laboratory; and Josephine H. Walker, Foreman, General Maintenance, Oak Ridge Gaseous Diffusion Plant.

He pointed out that a retirement counseling program is in operation at all locations to one degree or another. "I have asked P.C. Fourney, Manager of Employee Relations, to review this program and to recommend improvements."

The committee urged that emphasis should be placed on identifying with the Nuclear Division, rather than with Union Carbide Corporation. As the committee report explained: "As more binding relationships are established at the Nuclear Division level, identification with Union Carbide Corporation should improve."

(Continued on page 8)

Means of protecting fish larvae studied in test rig

By Robert Wesley

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Experiments are being conducted by Oak Ridge National Laboratory to determine what factors are responsible for the death of fish larvae involved in entrainment - the experience of being pulled through the coolant system of an electrical power plant.

Data obtained in the tests are expected to assist in the preparation of environmental impact statements related to the siting of new electric power plants. The studies are headed by Charles C. Coutant of the Environmental Sciences Division, with engineering assistance provided by Robert J. Kedl and Robert Smith of the Reactor Division.

Simulates condenser stress

The tests are carried out with an experimental device designed to simulate the approximate distance, stresses and temperature of a condenser tube system in an actual power plant. Baby fish or larvae, so young that they may still carry their egg sacs, are poured into an inlet valve and then are pumped through a 7/8-inch diameter, 40-foot pipe shaped like an arch.

The device is designed to subject the larvae to the stress of being pushed upward under pressure for a distance of 20 feet through the first half of the arch, then carried directly downward under less pressure for the second half. The fish are recovered with a net at an exit pipe, then are placed in glass tanks and observed for several days to determine possible ill effects.

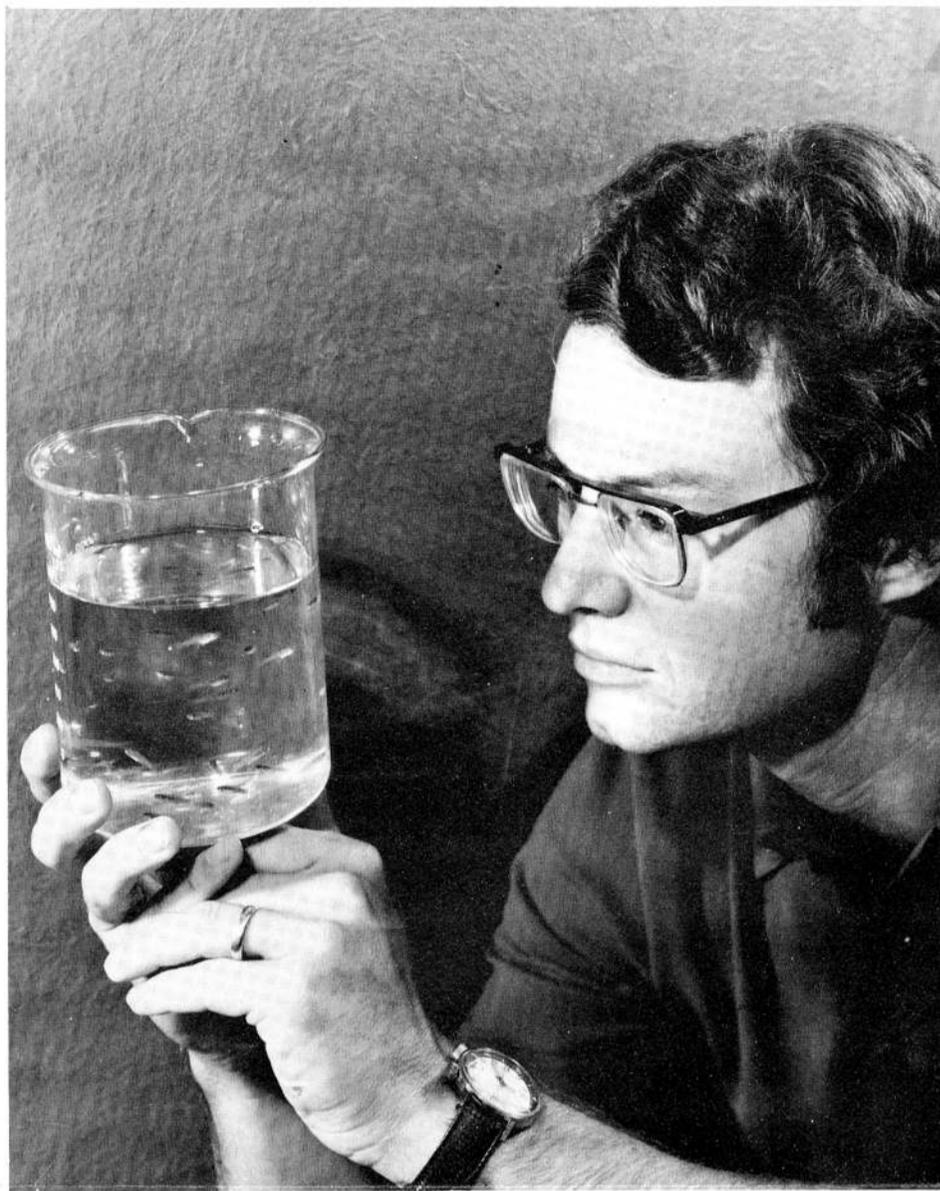
The water temperature can be varied from approximately 64 to 88

degrees Fahrenheit. Velocity of the water can be varied from 7 to 19 feet per second. To date, the larvae of carp, bluegill, mosquito fish, shad and striped bass, in addition to tadpoles and plankton, have been passed through the device.

In discussing the experiments, Coutant said: "We hope to determine precisely what factors cause the death of fish larvae when they are involved in entrainment. We are trying to isolate these factors and to study them independently. For instance, are they damaged by the shear force and stress, by drastic temperature change, by rotor blades of a pump, or do these factors combine to cause damage? Thus far, our tests seem to indicate that shear force and stress of being pumped through the rig apparently cause no significant rise in mortality. The death rate is five percent or less, about the same percentage we experience with two control groups of larvae which do not pass through the loop. We have seen an increase in mortality if the water temperature is increased significantly, say up to as high as 88 degrees F.

"Future experiments will include passing larvae through a pump to determine if this is a factor in death or damage. If so, it may be possible to redesign or to select pumps that would be less damaging to them. After all, hatcheries use pump systems to move larvae and small fish from one pond to another without ill effects, so it may be possible to use water pumps in power plants that will cause less damage to larvae."

The problem of larval mortality stems from the fact that power plants



SUCCESSFUL JOURNEY — Charles Coutant, Oak Ridge National Laboratory's Environmental Sciences Division, examines a container of baby mosquito fish which have successfully completed a pass through the water pumping device which simulates some of the stresses of a power plant's cooling system. Following a test, the fish are observed for several days to determine possible ill effects before being released.

require large quantities of water for cooling purposes. A coal-burning plant uses some 400,000 gallons per minute, while a nuclear power plant might use as much as 600,000 gallons per minute. Water for such coolant systems is obtained from adjacent lakes, rivers or oceans by large, underwater intake tubes.

eliminating or lessening the damage to fish.

COMPANY Service

20 25 30

ORNL
30 YEARS

Elvie R. Boyd, Metals and Ceramics; Elmer C. Reaves, Plant and Equipment; Margaret T. Guess, MAN Program; Jean K. Redman, Solid State; James I. Fine, Laboratory Protection; and Stanley S. Kirslis, Energy.

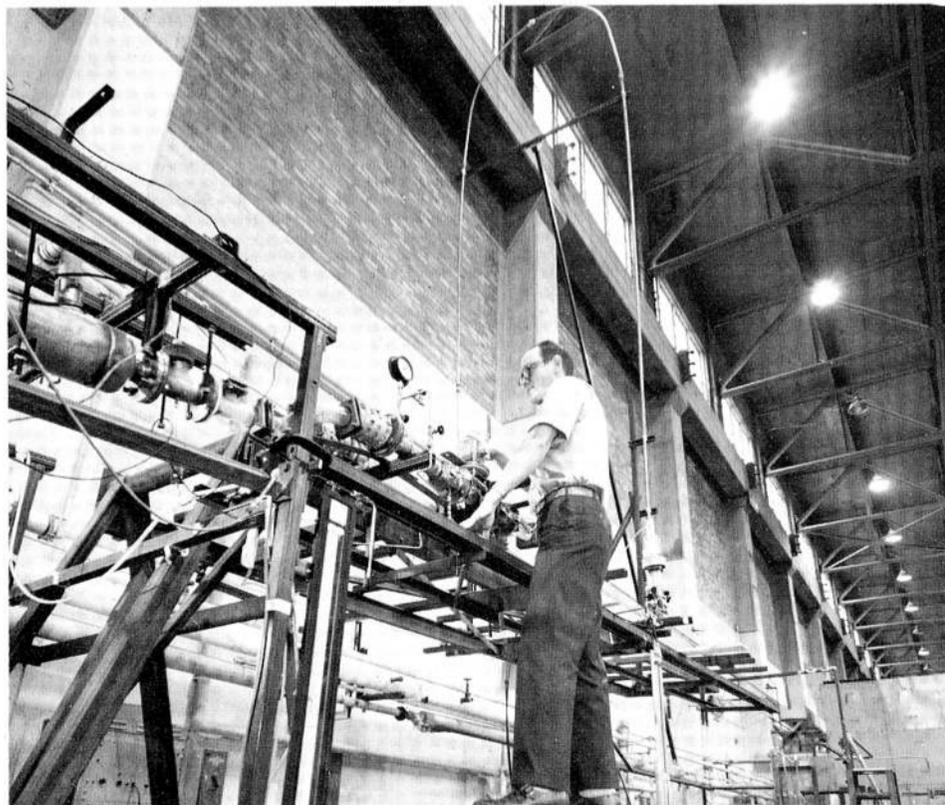
Allen D. Ryon, Donald M. Richardson, John D. Redman, Robert S. Lowrie and Boyd S. Weaver, Chemical Technology; Leo J. Brady, Analytical Chemistry; Frank Wester Jr., Biology; and Curtis W. Terry, Plant and Equipment.

25 YEARS

James A. Newman, John H. Cooper, Luther R. Trotter, Raphael A. Dandl, Horace M. Thompson Jr. and Wallace L. Hylton.

20 YEARS

J.B. Ogle, Dale Daniels, Gary H. Coleman, Eugene Eichler, Lois M. Morris, Hugh A. MacColl and Richard D. Seagren.



FISH EXPERIMENTS — Various fresh water species of baby fish and larvae are pumped through a rigging of pipes designed to simulate the range of stress, velocity and temperature which such fish undergo when they are inadvertently pulled through the coolant system of a power plant. ORNL personnel conducting the tests hope to obtain data which will assist in the preparation of environmental impact statements related to the siting of new electric power plants. Robert Kedl empties a container of small fish into the device prior to an experiment. During the test, the fish will be pumped through the 40 foot arch-shaped pipe in the background.

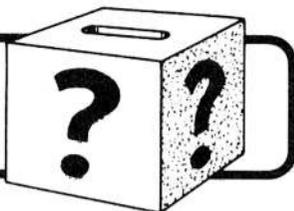
Trapping tests planned

Water drawn through intake tubes often carries trash, logs and large fish along with the larvae. A 3/8-inch mesh screen prevents the large objects from being pulled into the coolant system network, but the smaller fish and larvae are entrained or drawn into the system.

In addition to the problem of larvae and small fish being killed or damaged by entrainment, Coutant pointed out that a number of fish too large to be pulled into the system may be killed or damaged by becoming trapped on the protective screen. This problem concerns the utility agencies as well as the environmentalists because a power plant occasionally may have to stop operation in order to clear the screen of trapped objects which block the flow of water into the system.

Coutant said future plans include a study of trapping both in the laboratory and at power plants to determine possible ways of

QUESTION BOX



If you have questions on company policies, benefits, etc. or any other problems with which we might help, just let us know. Drop your inquiry to the Editor, **Nuclear Division News**. (Or telephone it in to your plant news representative.) You may or may not sign your name. It will not be used in the paper.

Questions are referred to the proper authorities for accurate answers. Each query is given serious consideration for publication.

Answers may be given to employees personally if they so desire.

QUESTION: Why doesn't the Company provide tubing on the employee badges? This would eliminate teeth prints and black marks on clothing.

ANSWER: At the present time, some badge clips do have tubing on them. To permit wider use, tubing will be made available at all portals in the near future for those employees who want to use it.

When new badges are issued early next year, we plan on obtaining nickel-chromium plated clips in an attempt to avoid staining of clothing.

QUESTION: Does a supervisor have the authority to pass on confidential information about one employee to the other employees in the office or division (an employee's age, economic background, how many times married or divorced, etc.)?

ANSWER: Supervisors are responsible for proper handling of a wide variety of information which necessarily comes to their attention in the carrying out of their duties. This may include classified information vital to the security of the country, very important business confidential information, or information about employees.

A primary and basic requirement for satisfactorily performing supervisory duties is knowing how to protect such information and limiting access to those having a legitimate need to know to effectively perform their official duties. The Company instructs supervisors to handle information such as that cited in the question, in a discreet, fair and equitable manner.

QUESTION: Considerable publicity is given periodically to certification of engineers as witnessed by the pictures and article on page 4 of the August 1 issue of **Nuclear Division News**. I seem to recall an article two or three years ago regarding the certification of engineering technicians, and the display of their certificates.

Metal photo reproductions of certificates on walnut plaques are prevalent in some departments and conspicuous by their absence in others. Take a look at offices in the Engineering Division.

Is there a uniform policy throughout UCND to reward, in a small but tangible way, those who have put forth the effort to reach either one of these levels of achievement by reproducing their certificate on a metal photo and

walnut plaque for display in their office or in a central department location(s)?

ANSWER: It has been our policy to encourage engineers and draftsmen to become certified and numerous actions have been taken in this respect. One thing that we have done is to present certification plaques to them in connection with their certification. It is now a uniform policy through UCC-ND. If such a plaque was not presented to you when you became certified, please discuss the matter with your supervisor who will arrange for it to be done.

QUESTION: Can anything be done for parking facilities for employees in Charlotte Hall? The situation gets more miserable every day.

ANSWER: We believe this question should have been directed to parking at Cheyenne Hall, because there is more than ample parking space at Charlotte Hall. There is congestion at Cheyenne Hall due primarily to non-employee parking on Tyrone Road as well as in the parking lot east of Cheyenne Hall. We have no control over people parking on Tyrone Road and have posted signs "CLOSED TO PUBLIC, FOR OFFICIAL USE ONLY, U.S.A.E.C." at the parking lot entrance for Cheyenne Hall. As a further effort to discourage non-employee parking in the lot, signs are being enlarged and will read: "KEEP OUT, PRIVATE PARKING, UCCND EMPLOYEES ONLY." If the Cheyenne Hall lot is still filled at times, it is suggested that the Charlotte Hall parking lot be used by some Cheyenne Hall employees.

QUESTION: In the mornings, and especially Monday mornings, the K-1001 building at K-25 literally "stinks." Is it possible to reactivate the attic exhaust fans to clear the air overnight?

ANSWER: You certainly have a nose for facts. There is certainly a musty, if not undesirable odor in the K-1001 Building after it has been secured for even a short period of time without benefit of air conditioning or open doors. This building, which was constructed in the early 1940s has less than effective ventilation in the summer and heating in the winter. Our facility engineers are studying the problem and hopefully some improvements can be made.

Ferguson appointed manager of new engineering division

William F. Ferguson has been appointed manager of the newly created Support Engineering Division. The announcement was made by George R. Jasny, Director of Engineering for the Nuclear Division.

Ferguson will direct engineering support services for Oak Ridge National Laboratory, the Oak Ridge Y-12 Plant and the Oak Ridge Gaseous Diffusion Plant. His responsibilities will include: estimating engineering, procurement coordination, construction engineering, the reactor development and technology program, engineering planning and certain other business aspects of engineering.



William F. Ferguson

Was in Reactor Division

A native of Nashville, Ferguson received a B.S. degree in electrical engineering from Vanderbilt University. He joined the Nuclear Division staff in 1950. He was involved in the construction of all three of the AEC's gaseous diffusion plants.

As a member of ORNL's Reactor Division, Ferguson worked on the aircraft nuclear propulsion project at the Y-12 Plant. He also aided in construction of the aircraft reactor test facility at ORNL. Ferguson worked at the Naval Reactor Test Station in Idaho and the General Electric Test Reactor in Pleasanton, Calif., while a staff member of the Reactor Division.

In 1967, Ferguson transferred to ORNL Engineering as head of the projects and standards department. In addition, he was appointed director of ORNL's reactor development and technology program in 1972.

Active in field

Ferguson has been a prominent figure in the planning and preparation

of national standards needed for engineering and construction of nuclear power plants and related facilities. He has been on the American Society of Mechanical Engineers Committee on Reactor Components, Equipment and Systems, and the Boiler and Pressure Vessel Code, Section III Subcommittee on Quality Assurance and Stamping. He also serves on the American National Standards Institute's Nuclear Technical Advisory Board and has served on several American Nuclear Society standards writing groups.

Ferguson is a member of Roane County Court and the Emory River Development Association. He and his wife, the former Nancy Denning of Hickory, Tenn., live at Route 2, Kingston. They have three children.

Calendar of EVENTS

TECHNICAL November 22

IAC Forum Typesetter Seminar: "PDP-10 AM748 Program," W. E. Kinney, Neutron Physics Division. Isotopes, Auditorium, Building 3047, 11 a.m.

Coal Conversion Lectures no. 5 and no. 6: Prof. Paul H. Emmett, Portland State University, Oregon. Central Auditorium, Building 4500N, 9 a.m. and 2 p.m., respectively.

Science and Technology Colloquium: "Art and the Atom," Bernard Keisch, Carnegie-Mellon Institute of Research. Central Auditorium, Building 4500N, 11 a.m.

November 26

University of Tennessee Department of Chemistry General Seminar: "ESR Studies of Photolyzed Liquids," Prof. R. Livingston, UT Knoxville. 414 Buehler Hall, UT Campus, 4 p.m.

Solid State Division Seminar: "Spin Wave Studies of 3d-Transition Metal Alloys," Prof. Y. Ishikawa, Tokyo University, Japan. Conference Room, Building 3025, 10 a.m.

December 5

Instrumentation and Controls Division Annual Information Meeting: Central Auditorium, Building 4500N, 1:30 p.m.

COMMUNITY November 23

"A" Shift Turkey and Ham Shoot: Oak Ridge Sportsman Association, 9:30 a.m. Admission: 50 cents per relay for hams; 75 cents for turkeys.

Children's Museum "Folk Art Happening." Demonstration of blue grass music, clogging and square dancing. Highland View School, 10 a.m. to 5 p.m.

November 24

Art Center Film Club: "The Conformist," Bernardo Bertolucci, Italy, 1972. Jefferson Junior High School, 8 p.m. Admission: adults \$1.75; students \$1.

November 30

Junior Playhouse: "Oliver." Playhouse, 1 and 3 p.m. Admission: adults \$2; students \$1.25. (Other showings December 1, 6, 7, and 8.)

Eight new job assignments announced at Paducah plant

Eight new job assignments were announced recently at the Paducah Gaseous Diffusion Plant.

Franklin E. Baggett has been named a planner-estimator in the Fabrication and Maintenance Division. A native of Graham, Ky., Baggett is a veteran of the U.S. Marine Corps. He joined Union Carbide 17 years ago.

He has attended Paducah Community College.

Mrs. Baggett is the former June Bennett and they live at Route 1, Paducah, with their two children, Leigh and Bret.

Melvin S. Barks has been promoted to a shift supervisor in Chemical Operations. Born in Advance, Mo., Barks has been at Paducah 23 years. He was in the grocery business before joining Union Carbide.

He and his wife, the former Eva Like, live at Route 11, Paducah. They have one son, Melvin.

Herbert W. Handley has been named a planner-estimator in Fabrication and Maintenance. He was with ICC Railroad, Bell Telephone and the Cobb Hotel before joining Union Carbide 22 years ago.

A native of Mound City, Ill., he lives at 2418 Laclede Avenue, Paducah. Mrs. Handley is the former Mary Rogers, and they have a daughter, Buff Mutchler.

Bill W. Hulen is also a new planner-estimator in Fabrication and Maintenance. A native of Benton, Ky., he has been at Paducah 19 years. Prior to joining Union Carbide, he was in the Army and worked as a machinist in an auto parts store.

Mrs. Hulen is the former Sylvia Wallace, and they have two children, Janet and Brian. The Hulen home is at Route 2, Pace Drive, Paducah.

James B. Hughes is also named a planner-estimator in F&M. A native of Calloway (Ky.) County, he has been at PGDP 21 years. He attended trade schools in Paducah and Detroit, and worked with the R.C. Mahone Company before coming to Carbide.

Mrs. Hughes is the former Lolabell Farmer, and they have four children, Janette, Eugene, Richard and Stephen. Their home is at 3156 Lone Oak Road, Paducah.

Roby Kight has been named an associate chemist in the Laboratory Division. A native of Bell City, Mo., he attended Southeastern Missouri State College and Southern Illinois University. He joined Union Carbide in 1953.

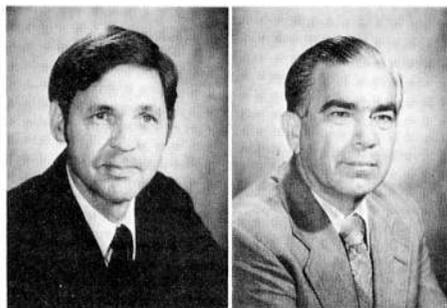
Kight lives with his family in the Heath Community. He and his wife, Arlene, have two sons, Steve and Richard.

Donald H. Korte is named a planner-estimator in F&M. Born in Chicago, he first came with Carbide in 1967, and again in 1972.

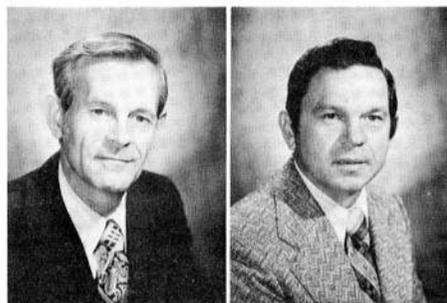
He holds an associate degree from Valparaiso Technical Institute and a B.S. degree in industrial technology from Southern Illinois University.

Mrs. Korte is the former Martha Kay Thomas, and they have a daughter, Melissa. They live at 118 Parkland Drive, Paducah.

Sammy Mabry has been promoted to a planner-estimator in the F&M



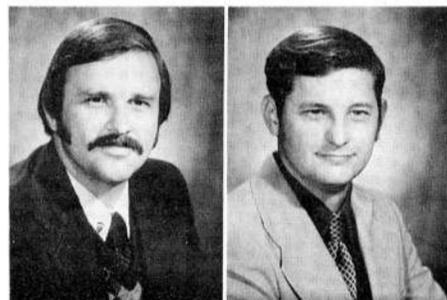
Baggett Barks



Handley Kight



Hughes Hulen



Korte Mabry

Division. A native of Cairo, Ill., he attended Paducah Community College and Murray State University, joining Union Carbide in 1968.

He worked as a welder-fitter with Paducah Marineways before joining the Nuclear Division.

Mrs. Mabry is the former Carolyn Higgins, and they have one son, Charles. The Mabry home is on Route 4, Bardwell, Ky.

Next Issue
The next issue will be dated December 5. The deadline is November 25.

NOTE OF INTEREST
Laurance A. Knecht is on sabbatical leave from Marietta College in Ohio. He is assigned to the ORNL Analytical Chemistry Division. Knecht has with him literature about educational opportunities at Marietta College and would be happy to talk with prospective students and their parents. His plant address is 4500S, D-151, extension 3-1536. His home phone number is 483-9615.

Division Retirees



Mrs. Pickell Swing



McQuain Mettelka

Mary Huffine Pickell, in the payroll department of General Accounting, will retire at the end of this month, ending more than 26 years' company service. She lives at Route 2, Kingston.

Retiring at the end of the year will be Harold E. Swing, a truckdriver in Fabrication and Maintenance. He joined Union Carbide in 1944, and lives at Route 1, Rockwood.

Two Y-12 veterans will retire December 1, with a combined 58 years of company service.

Raymond F. McQuain, Alpha 5 processing, joined the Y-12 organization August 3, 1943. He retired to his 205 Englewood Lane, Oak Ridge, home.

Raymond F. Mettelka, Engineering Division, hired in March 10, 1947. His home is at 120 Maple Lane, Oak Ridge.

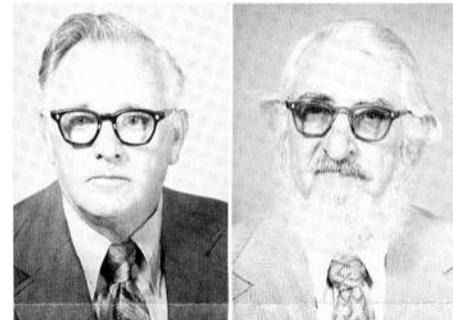
Four Oak Ridge Gaseous Diffusion Plant employees end long Union Carbide careers at the end of this year.

Leonard C. Adcox, a maintenance mechanic in the fabrication shop department, joined UCC in 1944. He retires to his 3104 Hazelwood Road, Knoxville, home.

Woodrow Garrett, an operator in the U-235 separation department, came to ORGDP in 1944 also. He lives at Route 2, Lancing.



Adcox Ketner



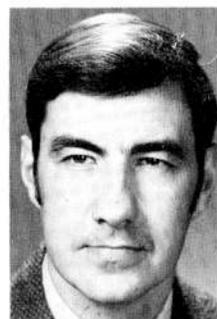
Garrett McLemore

Clarence R. Ketner, a chemical operator in utilities operations, hired in at ORGDP in 1944. He lives at 223 Hillside Road, Oak Ridge.

Raymond L. McLemore, an electrical machinist in development maintenance, joined UCC in 1951. He retires to his 840 Alma Lane, Kingston, home.

UCC-ND co-sponsors industrial workshop

Demands for a higher accuracy and closer tolerances in the nuclear industry have led to the development of new precision machine components and machine improvement programs. These new developments were the topic of an intensive three-day workshop November 19-21 at the Lawrence Livermore Laboratory, University of California, San Francisco. Union Carbide Corporation and LLL co-hosted the event.



Jones

Fred W. Jones, superintendent of the fabrication systems development department at Y-12, was a workshop leader, along with James B. Bryan, chief metrologist at LLL.

The Industrial Applications of Precision Machining and Gaging Workshop was sponsored by the

Society of Manufacturing Engineers, and included a tour of LLL's advanced machine shops.

Other Union Carbide engineers who gave papers at the conference included Phil J. Steger, James Henry, Howard L. Gerth and Jones B. Arnold.

Steger gave two papers: "Low Force Cartridge Transducer for Precision Gaging Applications," and "Porous Graphite Air Bearing Components as Applied to Machine Tools."

Henry's talk was entitled: "Automatic Tool Setting Technology for Machine Tools," Gerth spoke on "Improving a Production Lathe to Machine Optical Components for High Energy Lasers," and Arnold's talk was entitled, "Diamond Turning on Advanced Machine Tool Prototypes."

The information presented in these papers was developed at the Oak Ridge Y-12 Plant in support of various U.S. Atomic Energy Commission programs.



ORGDP SAFETY DEPARTMENT — The safety department at the Oak Ridge Gaseous Diffusion Plant has brought about a positive attitude toward safety. A recent accident there ended a period of 243 days, or 4,425,000 man-hours worked without a lost-time injury. Seated from left, are Pearley Atwater; Burkett I.V. Bailey, head of the department; and Carol Kendrick. Standing are Thomas B. Bomar, Bobby G. Grant, Donald B. Shupe, J. Sewell Brown and Ridley W. Ray.

New look at safety aims at ORGDP brings results

In early August of this year, the Oak Ridge Gaseous Diffusion Plant completed 150 days without a lost-time accident. This was the first drawing award period the plant had experienced since the present safety award incentive plan went into effect.

This achievement is significant because it indicates what can be accomplished when a joint effort is made to initiate an accident prevention program.

The accident and injury experience for 1974 compared with last year shows positive results: All injuries reduced by 195; serious injuries down from 79 to 44; the serious injury frequency rate down by 53 percent. In addition, there was a 50 percent reduction in disabling injuries, and the disabling injury frequency rate for 1974 is 0.37 as compared to 0.85 for the same period in 1973. (Frequency rate is defined as the number of lost-time accidents per million man-hours worked.)

In late 1973 the Safety Department at ORGDP was reorganized, and Burkett I. V. Bailey, a 27-year UCC veteran, was named safety supervisor. Additional personnel was added and the staff, with their assignments, are as follows:

Thomas B. Bomar - Operations, Barrier Manufacturing, Security and Plant Protection and Shift Superintendents Divisions.

J. Sewell Brown - Separation Systems, Gaseous Diffusion Development and Laboratory Divisions.

Bobby G. Grant - Fabrication and Maintenance Division.

Donald B. Shupe - Employee Relations, Computer Technology Center, General Accounting, Purchasing, Auditing, Planning and Analysis and Capacity Expansion Divisions.

Ridley W. Ray - Finance, Materials

and Services; Engineering and construction activities.

A renewed interest in safety and an obvious interest in the new programs were almost immediate in the plant.

Some of the new programs are as follows:

A more comprehensive safety program was initiated which includes a revised program procedure and improves services with assistance to supervision throughout the plant to implement the program.

A safety suggestion program was begun to encourage employee participation.

An improvement in the safety meeting program was started, providing new reference materials and audiovisual aids to heighten interest in the safety meetings.

A reorganization of materials and equipment in the Safety Information Center was accomplished.

Safety inspections and audits were created to assure the uncovering of unsafe conditions and acts in the plant.

A new method for investigating injuries was evolved, which includes front-line supervision.

A new safety orientation program for new employees was devised.

Several other programs have been, and are in the process of being improved to achieve the goal of an accident-free operation. These programs include plant eye protection programs, safety and electrical work permits, establishing a plant-wide confined space entry procedure, reviewing and improving the hand protection program, up-grading the safety shower and eye wash fountains, initiating an electrical cord inspection program, instituting a ladder inspection program and others.

With the reorganization of the Safety Department, and a realignment of safety attitudes, a more

Nichols will head new coal technology program

Jere P. Nichols has been appointed to the newly created position of Director of the Coal Technology Program at Oak Ridge National Laboratory. The program will consolidate the management of expanding projects that provide research, development, and engineering support for the national program to develop and apply methods for the production of clean energy from coal. Following ORNL's usual pattern for multidisciplinary programs, the research and development activities will continue to be carried out in the various divisions of the Laboratory.

Nichols will report to Murray W. Rosenthal, Associate Director for Advanced Energy Systems.

Nichols will be responsible for the technical management of the ORNL applied coal conversion projects that presently are funded by the Office of Coal Research of the U. S. Department of the Interior and the Division of Applied Technology of the U. S. Atomic Energy Commission.

Other processes

The coal conversion projects will emphasize the chemical and engineering development of methods for producing clean liquid fuels from coal but will also support some development of gasification and other conversion processes. Projects currently under way include those for development of a hydrocarbonization process for producing fluid fuels from coal, separation methods for use in coal conversion processes, and improved catalysts for coal liquefaction and gasification reactions.

Nichols will coordinate several other coal-related projects that will seek improved understanding of coal

positive view of all matters pertaining to safe operation is evident. There has been an increase in participation of all employees in safety activities in the plant.

Communications related to safe operations have been improved greatly among different groups. Personnel are more informed and are being kept current on safety matters.

Employees are accepting the theory that safety is an integral part of operations, in a sincere and positive manner. Lip service is no longer enough and has no place in the existing safety program. Many employees have developed the habit of reporting and, in many cases, demanding that these hazards be corrected.

The pleasures derived from these accomplishments, then, are manifold . . . but the greatest boom to the entire program is a safe operation. It pains us all when one employee is hurt, and people do continue to get injured. That is why safety and safety consciousness are never-ending programs.

The ORGDP eight-month period without a disabling injury ended November 4 when an employee crushed his thumb, ending a string of accident-free days at 243, or for 4,425,000 man-hours.



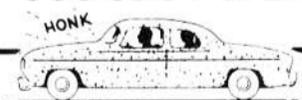
Jere P. Nichols

production and strip-mine reclamation problems, the development of advanced methods for the combustion of coal in community-sized modular utility systems, fundamental research directed toward a better understanding of the properties of coal and its reactions, and research related to the health and environmental aspects of the projected coal conversion industry.

Energy research

Nichols joined ORNL in 1958, after receiving his B.S. degree in chemical engineering from The University of Tennessee. He has held various positions in the Chemical Technology Division including process design engineer, chairman of the long range planning group and, most recently, chief of the engineering coordination and analysis section. For the last year, he has been involved extensively in providing assistance to the Atomic Energy Commission and the Department of the Interior in the development of plans for a national energy research and development program.

WANTED



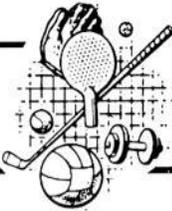
Y-12 PLANT

TEMPORARY RIDE from off Fox Lonas Road (near Crestwood subdivision), Knoxville to North or Central Portal, straight day. Alice Hager, plant phone 3-7295.

ROANE STATE NEEDS BOOKS

Roane State College is seeking used college textbooks in order to bolster the reference shelves of the school's library. If you have any such texts (any vintage) and are willing to part with them, please send the books to J.X. Khym, Biology Division, Building 9224, Y-12 Plant.

RECREATIONOTES



PERFORMING POODLES — Bill Brickle's poodles will delight Carbide children in the Oak Ridge area at Christmas parties Monday, December 23, at the Oak Ridge High School. Children of Paducah employees will be feted earlier on Saturday, December 14 at 9 a.m. in the Arcade Theater.

CHRISTMAS PARTIES

Big Christmas parties for children of Union Carbide employees are set for the holidays. In Oak Ridge, December 23 is the big day with parties at the Oak Ridge High School at 9 and 11 a.m., and 1, 3 and 5 p.m.

An earlier party is set for children of Paducah employees, Saturday, December 14, at the Arcade Theater. Applications for this party must be in by November 26. Both applications appear in this issue of **Nuclear Division News**. (Please make sure you fill out the proper blank for your installation.)

Oak Ridge tickets must be applied for before December 18. Another application will appear for Oak Ridge only in the next issue.

Y-12 BOWLING

The Rollmasters are only one-half point ahead of the Badgers and Rounders as the C League Bowling League goes into the first-half's final lap. The Mini-Strikes' 3155 handicap series looks good for this point.

The Rollers hold first place in the Y-12 Mixed League only fractions ahead of the Roses & Thorns and the Friskies. Bill Johnson's 260 handicap game and Russ Greeley's 686 series are high thus far.

The Y-12 Classic League lead is in the firm hands of the Eightballs as their Bill Ladd still holds the lead in rolling, with a hot 699 scratch, 765 handicap series! The Ridgers ride in second place.

APPLICATION FOR TICKETS

Requests MUST Be In By November 26
PADUCAH CARBIDE CHILDREN'S CHRISTMAS PARTY
 (For Children Ages 2-9)
SATURDAY, DECEMBER 14 9 A.M.
 (Doors will open at 8:30 a.m.)
 ARCADE THEATRE, PADUCAH, KY.



Employee's Name _____ Badge No. _____

Home Address _____
 (Please Print Street Address or RFD, City and Zip Code)

Number of your children who will attend the party (please list):

(BOYS)		(GIRLS)	
NAME	Date of Birth	NAME	Date of Birth
NAME _____	Date of Birth _____	NAME _____	Date of Birth _____
NAME _____	Date of Birth _____	NAME _____	Date of Birth _____
NAME _____	Date of Birth _____	NAME _____	Date of Birth _____

List names, ages and sex of children very accurately. The information will be used to bring present records up to date.

NOTE: Fill out form completely and return as soon as possible, but not later than November 26, to the Recreation Office, Union Carbide Corporation, P. O. Box 1410, Paducah, Ky. 42001. Tickets will be mailed to parents at their home addresses.

PRESIDENTIAL AWARDS

Eight Nuclear Division employees have received the Presidential Sports Awards, certifying that they have participated in 50 or more hours in 50 or more sessions. Jogging takes the spotlight, as five of the employees qualified under the jogging requirements.

Joggers include Marion Randolph and John W. Gerwels, ORGDP; Bob Copeland, Harvey Sharp and Perry Gouge, ORNL.

Qualifying in softball was Lynda S. Marlar, Y-12; Charlie Murphy, ORNL, in equitation (horseback riding); and John W. Ruthven, Y-12, in golf.

Many more Carbiders have qualified under the strict rules of the physical fitness program, and await their certificates.

ORNL B SHIFT PICNIC

ORNL's B Shift recently staged a late Autumn picnic at Clark Center Park.

Following supper, games were played and the winners were: Charles C. Foust, socket wrench set; James I. Fine, steam iron; Rubin L. Arnwine, cooler; Michael E. Littleton, lantern; John M. Miller, tray; Charles A. Thomas, can opener; Harvey L. Smith, badminton set; Edgar W. Brown, stadium seats; Roger A. Jones, ice cream freezer; Wesley L. Whaley, drill; Emmitt C. Brown, cooler; Richard B. Malcolm, volleyball set; Daniel B. Owsley, blender; and Woodford F. Spencer, lantern and percolator.

ORGDP BOWLING

The Uptowners still dominate the ORGDP Women's Bowling League ahead of the Payoffs and Wood Bees. Mary Foley's 224 scratch game, 569 scratch series were high recently.

The Tuesday League still belongs to the City Slickers, only a point ahead of the All Stars. Sewell Brown and Joe Vogt dominated the boards recently. Brown rolling a 233 game; Vogt a 258 handicap single.

The Wednesday League sees the Mix-Ups one-half point away from the Planners. The big news, however, is that Dave Phillippi rolled a 234/260 game, a 628/706 series for the best series of the season, and the second best game thus far in Wednesday rolling.

ORNL BOWLING

The ORNL A League puts the Woodchoppers out . . . two ahead of the Gutterfinks, three ahead of ORAU.

C League's lead lies on the head of the Damagers . . . as Charlie Gaither had a boomer series, 202, 190, 202 for a 594 series. Fred Kitts hit his stride too in throwing a 240 scratch game!

The ORNL Ladies League puts the Pickups out front by a half-point away from the Bowling Aces. Mary Long starred again, with a game of 209 scratch, and a handicap series of 644.

The Family League lead goes to the Oops team still, with the Untouchables moving up to tie for the lead. C.R. Lively and Tillie Plaza were the stars recently bowling well.

CARBIDE CAMERA CLUB

The Carbide Camera Club Annual Salon is presently on display at the Oak Ridge Community Art Center Gallery on Badger Road. This is the last weekend for viewing the Salon since it continues through Sunday, November 24. There is no charge to the public and the hours are: Monday through Friday, 10 a.m. to 2 p.m.; Saturday and Sunday, 2 to 5 p.m.

Prize winning photographs and accepted entries from the judging held October 24 are on display. Entries competed in five categories: portrait, still life, pictorial, nature, and open. Separate competition was held for black-and-white prints, color prints, and color slides. Entrants were required to do all printing and mounting of prints, although commercially prepared slides were acceptable.

All persons who are interested in photography are invited to view the Salon.

Application for Tickets To Christmas Parties

FOR CHILDREN OF OAK RIDGE UNION CARBIDE EMPLOYEES
 (AGES TWO-10 ONLY)
MONDAY, DECEMBER 23

Plant _____

Employee's Name _____ Badge No. _____

Home Address _____

Plant Address _____

Number of Tickets (Children) _____

Number of Tickets (Adults) _____

— CHECK TIME PREFERRED —

Monday, December 23 9 A.M. 11 A.M. 1:00 P.M.
 Only 3:00 P.M. 5:00 P.M.

Please check first and second choice (write in space "1" or "2") as only a limited number of tickets will be issued for each party. Preference will be given early applicants and if tickets for first choice are exhausted, tickets for second choice will be issued.

Return this form, properly and completely filled in, to the Carbide Recreation Office, Building 9711-5, Stop 1, Y-12 Plant. Please apply for tickets before December 18. The required number of tickets will then be mailed to parents at their home or plant addresses.

Calendar of EVENTS

December 3

Biology Division Seminar: "Nucleotide Sequence of the Lactose Control Region of *Escherichia coli*," Robert C. Dixon, University of California, San Diego. Large Conference Room, Building 9207, 3 p.m.

Lung cancer screening

(Editor's Note: Dr. Lincoln alternates his regular column with "The Medicine Chest," where he answers questions from employees concerning their health in general. Questions are handled in strict confidence, as they are handled in our Question Box. Just address your question to "Medicine Chest," NUCLEAR DIVISION NEWS, Building 9704-2, Stop 20, or call the news editor in your plant, and give him your question on the telephone.)

By T. A. Lincoln, M.D.



Although there have been a number of lung cancer screening projects in many countries, there has been a nagging pessimism about their practicality. When lung cancer is detected, it is usually already too late to cure the patient. Screening using sputum cytology will find more curable cancers than chest x-rays, but the results are disappointing. After a positive sputum test, the lesion sometimes is too small to be seen on a chest x-ray or located during bronchoscopy. The poor patient has to wait months or even years for it to get large enough to be found.

Lung cancer screening programs find a few curable cancers, but the only really effective approach appears to be prevention. If we could get everyone to stop cigarette smoking and protect them adequately from hazardous occupational exposures, the lung cancer problem could probably be reduced to less than one quarter of its present huge size.

Find high risk groups

Getting people to quit smoking appears to be an almost insurmountable problem. The next choice is to try to find those individuals who are at high risk. It is not sufficient to make general classifications of high risk groups. People tend to be fatalistic and believe that they somehow will be lucky. The only way to get them to act is to perform a test which identifies them specifically as likely candidates. If they can be told that they have degenerative cells in their sputum which indicate a possible or probable precancerous lesion, they might then be convinced to stop smoking.

The degenerative changes in cells shed from the bronchial tubes are called atypia. Cytologists have worked out criteria for three broad groupings - mild, moderate and marked atypia. They can only be identified by painstaking microscopic examination of large numbers of cells. Chemical and physical means to identify these cells should be possible, but research in this area is still in an early phase and it will probably be years before practical success can be expected.

Screening problems

When one attempts to screen for degenerative rather than cancer cells, many problems arise. Cytologists

believe that the degenerative process begins with a patchy replacement of the normally tall columnar cells which line the bronchial tubes with flat, scaly cells, a process called squamous metaplasia. There is no adequate explanation why this transformation is patchy. It may be mechanical or it may be the result of greater impaction of particulate pollutants and gaseous irritants on some areas and less on others. Aerodynamic factors are probably important because the areas are found almost exclusively in bronchial tubes more than four millimeters in diameter.

Later, the patches of squamous metaplasia deteriorate further and individual or groups of cells become dysplastic or atypical. It progresses slowly through mild, moderate and marked atypia. In a few cases it then deteriorates to carcinoma in situ, which means cancer confined to the surface. Later it becomes invasive and soon after, cells begin to break loose and spread or metastasize to distant organs.

Dr. Saccomanno's findings

Dr. Geno Saccomanno, cytopathologist at St. Mary's and Veterans Administration Hospitals in Grand Junction, Colorado, has followed these changes in uranium and hard rock miners for many years. He, of course, has also followed many smokers and non-smokers. He believes that marked atypia may represent an irreversible step in the progression to cancer. Because of the much more common finding of mild to moderate atypia, it is clear that some of these cases revert back to normal, especially if exposure to irritants is reduced or stopped.

There is too little known about the natural history of mild and moderate atypia. In some it may be transitory and related to other acute or chronic lung diseases. If it disappears spontaneously, maybe one can be reassured. If it persists, then one should be careful.

Sputum testing

A concern is the reliability of sputum testing. How many samples does one have to collect before he can be reasonably confident that he has a representative collection of cells shed from most of the lung? No one knows the answer. In known cases of lung cancer, at least one of six specimens will yield cancer cells in 90 percent of the cases.

Dr. Saccomanno believes that people shed telltale cells in their sputum one to ten years before they develop cancer. Individuals with moderate atypia should certainly

Carol Oen named to post in industrial cooperation

Carol J. Oen has been appointed ORNL coordinator for the Nuclear Division's Industrial Cooperation Program. She succeeds J. Paul Blakely of the Information Division.

Mrs. Oen, who will work out of the office of the Associate Director for Administration at ORNL, will devote full-time to the industrial cooperation activities of the Nuclear Division.

The Industrial Cooperation Program, established in 1971, has as its basic objective encouraging maximum scientific, industrial, and state and local governmental applications of unclassified information and technology for the benefit of the public.

The program is designed to: disseminate information about new technology; provide technical assistance to industry, and state and local governments; when appropriate, make available government-owned facilities, equipment and personnel for private purposes and work experience; and develop new approaches to transferring technology and conduct pilot projects designed to prove their feasibility.

One of the responsibilities of the IC coordinator is to improve the information gathering system for the IC Bulletins (regular publications which announce the availability of new technologies to industries throughout the United States). Mrs. Oen will also encourage and arrange person-to-person contacts between representatives of industry and appropriate ORNL staff members regarding the development and use of technologies.

The Nuclear Division efforts are part of an overall Atomic Energy Commission program, coordinated by the Office of Industry Relations, for interfacing with industry and state governments. Among the other AEC contractors participating in the program are Argonne National Laboratory, Brookhaven National Laboratory, Lawrence Livermore Laboratory, Sandia and Battelle Northwest.

stop smoking and, if possible, have their sputum periodically checked to see if any improvement occurs. Individuals with marked atypia are at much greater risk and must stop all exposure to irritants and be followed carefully.

Sputum screening is probably only practical on a high risk population such as smokers, uranium miners and asbestos, chromate and arsenic workers. People with chronic lung disease of almost any type also appear to be at increased risk.

Since cancer of the lung usually cannot be effectively treated, the only answer is to prevent it. By regular sputum screening to find people with moderate and marked atypia, we may be able to identify those at increased risk. They then have had their warning. If they choose to ignore it, following them closely might catch the cancer early enough to give them a chance to survive.



Carol J. Oen

Mrs. Oen joined the ORNL staff in 1970. She served as director of the Ecological Sciences Information Center from 1971 until her recent appointment. Mrs. Oen has B.A. and M.A. degrees in biology and is currently working toward an advanced degree in management. She is a member of Phi Beta Kappa, Sigma Xi, the Ecological Society of America and the American Society of Information Science.

Mrs. Oen's husband, Dean, is employed in ORNL's Solid State Division. They have three children: Kristin, Norman and Bill. The Oens live at 119 Lehigh Lane, Oak Ridge.

Industrial cooperation representatives at the other Nuclear Division facilities are: Gene Rooks, Oak Ridge Gaseous Diffusion Plant; Harvey Kite, Oak Ridge Y-12 Plant; and Jack Gillespie, Paducah Gaseous Diffusion Plant. Melvin Koons, Assistant to the Nuclear Division President, coordinates the program for the Nuclear Division.

Ralph Fite named to Kentucky post

Kentucky's Governor Wendell Ford recently appointed Ralph B. Fite, Paducah Plant Engineering Division, to the Council of Social Services.



Fite

Fite has been active for several years in the field of human resources, and is the president of the Foster Parents Association of Marshall County.

The Council operates on the executive level of the state government, and is responsible for advising the administration on matters financial and administrative pertaining to human resources.

He and his wife Norma reside at Calvert City. Fite is a native of Graves County and received his education in the county school system, and at the Paducah Community College.

Hibbs eyes recommendations

(Continued from page 1)

In response, Hibbs said he was in full agreement with this recommendation. "It is only logical for employees to identify first with the work they are doing and the department and division in which they are located. After that they identify with their plant or laboratory. They then identify with the Division, and later with the Corporation."

There also was discussion of the need for more frequent cross-overs between installations in various areas. Hibbs said that this was a valid recommendation and that where this had been done in the past the results had been positive and contributed to greater understanding of Division activities among the individuals involved. "We plan to continue this effort at every opportunity," Hibbs said.

In another recommendation, the committee felt that there is a need for the Company to develop training programs to combat professional obsolescence for older employees. The discussion brought out the suggestion that more employees be encouraged to avail themselves of existing programs for this purpose.

In addition, it saw the need for the following: greater exposure in facilities by members of UCC and Division top management; emphasizing the positive aspects of being associated with the Nuclear Division; and greater Division identification on materials in the Oak Ridge and Paducah facilities.

The committee also felt there was a

need for management to consider programs for greater recognition of employees, and to revitalize certain aspects of the recreation program, including the annual children's Christmas parties.

Hibbs indicated that many of the recommendations made by the committee are significant and that the final report showed the time and effort which had been devoted to produce a highly constructive document. He said that as steps are taken on individual recommendations, all Division employees will be kept informed on a continuing basis.

PATENTS *Granted*

To William W. Parkinson Jr., Milton J. Kelly, Bernard J. Sturm and William J. Martin, ORNL, for "Novel Polystyrene Product Having Rapid Post-Irradiation Decay of Conductivity and Process of Making Same."

To Walter K. Sartory, ORNL, for "Centrifugal Particle Elutriator and Method of Use."

THANKSGIVING HOLIDAYS
Thursday and Friday, November 28 and 29, are official holidays for Nuclear Division employees. No employee is required to be at work on these days unless his/her presence is required for security or continuous operations.

Nuclear Division Deaths

James C. Hart, Health Physics Division at ORNL, died November 2 in the Loudon County Memorial Hospital following a brief illness.



Mr. Hart ORNL) in 1948. In 1962, Mr. Hart took a leave of absence to earn his law degree from The University of Tennessee.

Mr. Hart was active in many community and professional organizations. He was recently elected president of the national organization of the Health Physics Society.

Survivors include his wife, Mrs. Ellen Sparks Hart, and daughter, Sharon Hart, both of Route 1, Lenoir City; son, Gene Hart, New Orleans; sister, Mrs. Louis Harless, New Albany, Ind.; and two brothers, the Rev. John E. Hart and Jason Hart, both of West Virginia.

Funeral services were held November 5 in the chapel of Click Funeral Home, Lenoir City, with the Rev. Fred Gooden officiating. Interment

followed in the Oak Ridge Memorial Park.

Ralph W. Campbell, Y-12's dimensional inspection, died at his 140 Placer Lane, Oak Ridge, home November 4.

A native of Alabama, Mr. Campbell came to Y-12 in 1961.

Survivors include his wife, Mrs. Doris Campbell; his mother, Mrs. O.M. Campbell; sisters, Pauline Campbell, Lola Cowan and Jerry Dobbs; brothers, James and Maurice Campbell.

Funeral services were held at Martin Funeral Home with the Rev. James Leonard officiating. Additional rites were held in Locust Fork, Ala., with burial there.

FORMER PADUCAH EMPLOYEE
William H. Baker, former Paducah transportation service employee, died October 25, 1974. He had been totally and permanently disabled since October 1972.

Mr. Baker lived on Route 1, Metropolis, Ill. He is survived by his wife Robbie and daughter Rhonda.

COMPANY *Service*

20 25 30

GENERAL STAFF 30 YEARS

Phyllis C. Johnson, Computer Sciences Division; Vernon E. Davenport, Purchasing Division; and Al G. Burris, central employment.

30 YEARS

Charles H. Green, mechanical inspection.

PADUCAH 25 YEARS

V. A. (Jack) Chapman Jr.

ORGDP 30 YEARS

Charles L. Gritzner, maintenance engineering department; Clarence R. Calloway, chemical operations administration; Woodrow Franklin, janitors department; Broddus R. Webb, shift superintendents department; and Delbert W. Patterson, chemical and technical maintenance department.

25 YEARS

Ruby L. Jones.

Y-12 PLANT 30 YEARS

Duane P. Anderson, plant protection department; J. P. Wheeler, Alpha 5 processing; Grover H. Herrell, stores department; Hillman N. Wright, general shops; Wilma C. Rodgers, chemical services; Glenn A. Atchley, guard department; J. William Ebert Jr., Superintendents Division; Homer Jeffers, research services; Randell B. Amos, utilities administration; and Russell E. Ralston, S.S. warehousing and shipping.

25 YEARS

Mason A. Butner Jr., James F. Winfree and Robert E. Schabot.

20 YEARS

Albert C. Seals, Earl A. Cruely and Ralph M. Moretz Jr.

New I.D. systems

(Continued from page 1)

will have yellow badges; uncleared U.S. citizens will require red badges; and noncitizens, white badges.

In addition, each employee's Social Security number will appear on his or her badge, substituting for the employee identification number which has been used previously.

This project will cut the number of different badges in use by about 75 percent, reduce the number of forms required in transfers between facilities and, in general, lead to more efficient operation on a Division-wide basis.

In completing plans for the changeover, the Nuclear Division stressed that the employee's badge is intended as a means of identification for admission to an installation and for use as a radiation monitoring device. The badge is **not** intended to be worn outside the installations.

The changeover is particularly convenient at this time since Atomic Energy Commission regulations require that new identification badges be issued every five years, and 1975 is the start of a new five-year period. It is expected that the new badges will be distributed between Christmas and New Year's.

Y-12 CREDIT UNION

The Y-12 Federal Credit Union has announced the appointment of Mary Frances Bailey as acting manager; Stone Carr, as treasurer; J. Mullins Petty as assistant treasurer; and James M. Seivers as a board member.

Seivers will serve until the election of a new officer at January's annual meeting.

The annual meet is set for January 23 at the Robertsville Junior High School. A nominating committee has been appointed to name three new board members. Members to the board may also be nominated by petition according to by-laws.

Additional details will follow.



UNION CARBIDE CORPORATION

NUCLEAR DIVISION

P.O. Box 1410

Paducah, Kentucky 42001

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