



# NUCLEAR DIVISION NEWS

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

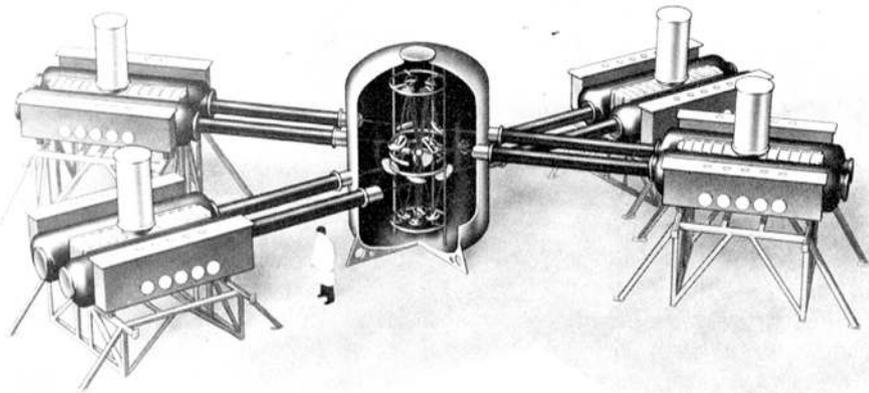
Vol. 6, No. 16

NUCLEAR DIVISION NEWS

August 21, 1975

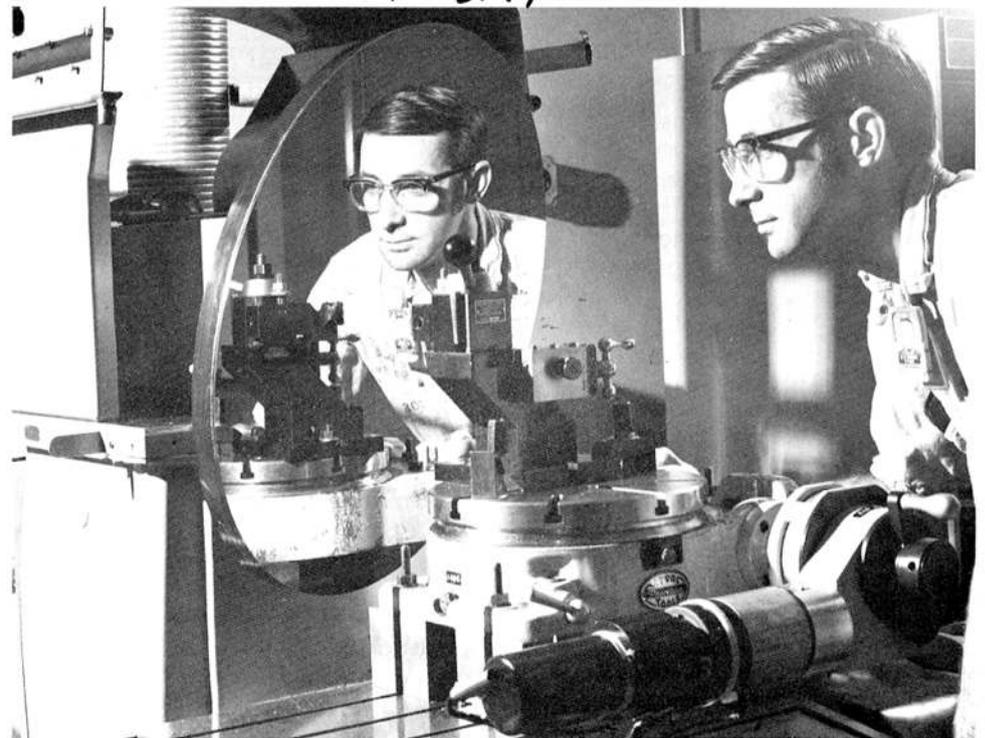
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## 10 kJ 8-BEAM CO<sub>2</sub> LASER & TARGET CHAMBER



10-KILOJOULE LASER SYSTEM — The Y-12 Plant has built mirrors for use in this experimental laser fusion device being constructed at Los Alamos Scientific Laboratory operated by the University of California for ERDA. (Photo courtesy of LASL)

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LASER FUSION MIRROR — One of 14 mirrors to be used in laser fusion experiments is machined to a highly-reflective finish on a turning machine at the Oak Ridge Y-12 Plant. The machinist is Bill R. Sparks.

## Influenza vaccine again offered to Nuclear Division employees

Influenza vaccine will be available to Nuclear Division employees again this year. Vaccinations may be obtained from the four plant dispensaries during September or October.

Employees are urged to get their flu shots early, since it takes time for the body to develop immunity. People with the following chronic conditions are especially encouraged to get the vaccine: heart disease, chronic pulmonary disease (asthma, bronchitis, tuberculosis, emphysema), renal disease, diabetes and other chronic metabolic disorders.

### Vaccine improved

According to Dr. Thomas A. Lincoln, medical director at ORNL, there have been several improvements in the vaccine since it was first offered to employees more than 10 years ago. Most of the

reactions formerly experienced by recipients of the vaccine were not from the viruses in the vaccine, but from foreign protein which it contained. Use of zonal centrifuges and other techniques now make it possible for laboratories to produce purified vaccine, which should cause few if any adverse effects.

In the past it was necessary for a person who had not had the vaccine to receive two doses the first time and then an annual booster. Now only a single dose is necessary for either the primary or annual booster vaccination.

### Study conducted

A retrospective study of the effectiveness of influenza immunization in the Nuclear Division during December, 1974, and January, 1975, was conducted by Dr. Lincoln, Dr. T. Guy Fortney, ORGDP, and Dr. Gino Zanolli, Y-12. The report shows that even though we experienced a sizeable flu epidemic last winter, the vaccine seemingly had a beneficial effect. Of the 3,229 employees immunized at ORGDP and Y-12, only 147 had reported absences from work because of flu. About 640 employees who did not have the vaccine developed influenza.

Employees who are clearly hypersensitive to egg protein are advised not to take the vaccine since it is prepared from viruses grown in embryonated eggs. Also, people who have active colds or respiratory infections are advised not to take the vaccine at that time.

## Y-12—made mirrors to assist LASL's thermonuclear studies

The Oak Ridge Y-12 Plant has made 14 highly reflective metal mirrors for use in the U.S. Energy Research and Development Administration's controlled thermonuclear reactor development program.

The Y-12 Plant was selected to perform the work because of its unique capabilities in precision machining.

The mirrors were made for Los Alamos Scientific Laboratory which will use them in an experimental device designed to bring about a small and controlled thermonuclear fusion reaction by using laser beams to strike a tiny pellet of deuterium. The unit will use eight laser beams, each of which is initiated from a separate carbon dioxide source.

The purpose of the mirrors will be to turn and to focus the separate beams onto a target area smaller than one millimeter in size (a space smaller than the period at the end of this sentence). Fourteen mirrors were made for the device. Eight of the mirrors have flat surfaces and are approximately 26" x 15"; while six mirrors have concave surfaces and are 16" in diameter. The mirrors have

a reflectivity of better than 99 percent (certified by carbon dioxide laser).

The mirrors are made of aluminum with a copper electroplating on the surface. They were diamond-turned to a tolerance of less than 100 micro-inches (a microinch is one-millionth of an inch) on a commercially-obtained measuring machine which had been modified appreciably for machining by the Nuclear Division's mechanical development engineers. The computer-controlled machine was equipped with an air-bearing spindle, diamond-knife cutting tool and a unique part support system to lessen vibration and distortion.

### LABOR DAY

Monday, September 1, is an official holiday for Nuclear Division employees, as the nation observes Labor Day. No employee will be required at work unless his/her presence is required by continuous operations or plant security.

Labor Day is the nation's oldest official holiday, even predating Independence Day.

### IN THIS ISSUE

Carnegie grant studies .....	page 2
Question Box .....	page 3
Turner assignment .....	page 3
Paducah promotions .....	page 4
Thermonuclear Division changes .....	page 5
Koons' appointment .....	page 5
Medicine Chest .....	page 7

### NUCLEAR DIVISION SAFETY SCOREBOARD

Time worked without a lost-time accident through August 14:

Paducah .....	31 Days	270,000 Man-Hours
ORGDP .....	101 Days	2,368,000 Man-Hours
Laboratory .....	129 Days	2,389,990 Man-Hours
Y-12 Plant .....	56 Days	1,682,000 Man-Hours

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### Carnegie summer program promotes student, faculty biomed training

Twenty-four students and seven faculty members from 20 colleges and universities are participating in a 10-week summer training program at The University of Tennessee-Oak Ridge Graduate School of Biomedical Sciences under a program supported by a grant from the Carnegie Corporation of New York.

The Biomedical School, which is part of The University of Tennessee, Knoxville, is operated as an integral part of the Biology Division of Oak Ridge National Laboratory.

The Carnegie Summer Program, which began in 1972 with a \$232,000 grant, provides black undergraduate students with the opportunity of exposure to a wide range of biomedical study areas in order to encourage their entry into the biomedical field. The program also

affords faculty members of predominantly black colleges and universities an opportunity to conduct research projects and to broaden their professional knowledge and background. The grant provides a stipend for study materials and living expenses through the 10-week period.

A typical day for a student consists of about one and one-half hours of classroom study and seven hours of work in one of the Biology Division laboratories under the supervision of a professional staff member. Special guest lecturers also are provided and seminars are held on the operation of sophisticated laboratory instruments.

The program is directed by Franklin D. Hamilton, associate professor of biomedical sciences at UT and consultant to the Biology Division. He is a native of Aucilla, Fla., and holds a Ph.D. degree in biochemistry from the University of Pittsburgh.

Hamilton described the program as an excellent contribution to the education of black students and to the professional growth of faculty members. He said he was particularly pleased that a high percentage of previous participants in the program have entered the biomedical field or have continued their studies in graduate school.

Participating in this summer's Carnegie Program are:

Zerline E. Chambers, Paterson, N. J.; Gloria J. Davis, Selma, Ala.; Mary T. Dean, Pensacola, Fla.; Delnise J. Drew, Chattanooga, Tenn.; James H. Perkins II, Charleston, S. C.; Stephen M. Puentes, San Diego, Calif.; Hazel Taylor, Edison, Ga.; and Dale M. Watford, Boulder, Colo.

Gerry B. Farmer, Tampa, Fla.; Verdelle D. Hamilton, Quincy, Fla.; Elizabeth A. Johnson, Chicago, Ill.; Cheryl D. Jones, Laurel, Miss.; Barbara Armstead, Moorestown, N. J.; Wanda F. Garrett, Sulphur, La.; Michelle N. Holloway, Oak Ridge; and S. L. Lampkin Jr., Clarksdale, Miss.

Sharon L. Larkin, Los Angeles, Calif.; David A. Logan, Meadowview, Va.; Lycurgus L. Muldrow, Elizabeth City, N.C.; Rita C. Nzeribe, Greensboro, N.C.; Marilyn A. Sutton, Hallsboro, N.C.; Millicent Sutton, New Orleans, La.; Alonzo White, Los Angeles, Calif.; and Lloyd McGriff, Havana, Fla.

Faculty members in the program are:

Francine Essien, Douglas College; Elbert Hayes, LeMoyné-Owen College; Vijaya Melnick, Federal City College; Somashekhar Munavalli, Livingston College; Subdayya Shetty, Florida A & M University; and Bam Mehrotra and Denis Strete, both of Tougaloo College.

#### Oak Ridge Construction Rapid

New neighborhoods were opened almost daily during the peak construction period in the early days of Oak Ridge, and at one time Oak Ridgers occupied more than 5,000 trailers, 16,000 hutment and barracks spaces, 9,600 semipermanent and prefabricated houses, and 90 dormitories. More than 300 miles of road and 55 miles of railroad were built and improved during the gigantic construction effort.

### Radiographer L. E. O'Dell dies Aug. 13 in Oak Ridge

Lyman E. O'Dell Sr., a radiographer in Y-12's Product Certification, died at his 101 Kimball Lane, Oak Ridge, home August 13.

Mr. O'Dell joined the Y-12 forces in 1966 and had previously worked at the Oak Ridge National Laboratory. He was a native of Anderson County.

Survivors include his wife, Mary; sons, Lynn, David, Lyman E. Jr., Tony, Dan and Richard; a stepson, Kerry Bowden; a stepdaughter, Cynthia Marshall; his mother, Ruby O'Dell; sisters, Laverne Hembree and Mrs. Claude Sharp; a brother, Don O'Dell; a grandson and a granddaughter.

Funeral services were held at Martin's Funeral Chapel with the Rev. Ron Coy officiating. Burial followed in Anderson Memorial Gardens.

### ESD assistant director Nelson dies August 16

Daniel J. Nelson died suddenly August 16 at his 116 East Morningside Drive, Oak Ridge, home. He was an assistant director of the Environmental Sciences Division at Oak Ridge National Laboratory.

Mr. Nelson, a native of Roland, Iowa, received his doctorate degree in ecology from the University of Georgia. He joined ORNL's Health Physics Division in 1959, and had served as assistant director of the Environmental Sciences Division since its inception in 1970.

Survivors include his wife, Barbara Wright Nelson; sons, Daniel Jr. and Eric; mother, Mrs. Katherine Nelson of Iowa; three brothers and a sister.

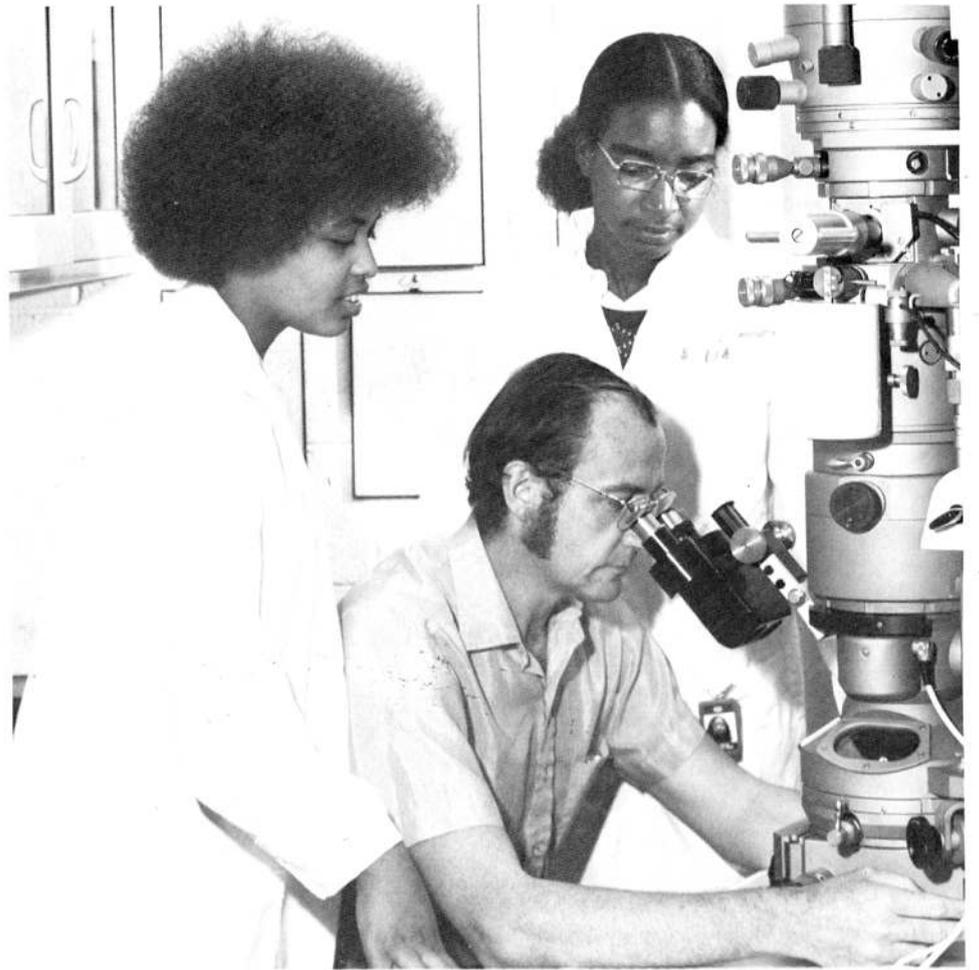
Graveside services were held August 18 at Oak Ridge Memorial Gardens.



Mr. O'Dell



Mr. Nelson



ELECTRON MICROSCOPE STUDIES — Carnegie Summer Program participants Gloria Davis, left, a Knoxville College student, and Mary Dean, from Xavier University, watch Biology Division's Dave Allison demonstrate the operation of an electron microscope.



LAB TECHNIQUE — Frank Gaertner, ORNL's Biology Division, demonstrates a laboratory technique to S. L. Lampkin, a Carnegie Program participant from Xavier University.

## COMPANY Service

20 25 30

### GENERAL STAFF 30 YEARS

Edna B. Ault, General Accounting Division.

### 20 YEARS

Alma J. May and James D. Griffin.

### LABORATORY

### 30 YEARS

William F. Leggitt, Plant and Equipment; Robert H. Rainey, Chemical Technology; Ralph E. Greene, Energy; William F. Shadden, Inspection Engineering; Charles D. Wicker, Plant and Equipment; Orville J. Gaines, Inspection Engineering; Charles T. Carney, Instrumentation and Controls; Robert H. Leath, Finance and Materials, and Desmond C. Bowen, Inspection Engineering.

### 25 YEARS

Ernest L. Earley, Warren J. McMahan, Winfred O. Wilson, Floyd R. Wells, Herman J. Stripling Jr., Gus Hatcher Jr., G. Pedro Smith Jr., Theodore A. Welton, Martin E. Ball, Delmer E. Holt, David C. Oden, Layton N. Howell, Charlie J. Vines, Frank Violet, Betty S. Harmon, Alexander Zucker, John R. Lund and Hugh E. Robertson.

### 20 YEARS

Morgan H. Barger, Fred V. Hudson, Andrew D. Kelmers, Bette F. Thomas, Cecil H. Parker, Junior L. Griffith, Thomas E. Duff, Charlotte W. Winchester, Truman C. Cash, Grover A. Moore, Gerard de Saussure, Carl E. Golden, Jack A. Ray, Thomas M. Cate Jr., R. A. Padgett Jr.

## NUCLEAR DIVISION NEWS



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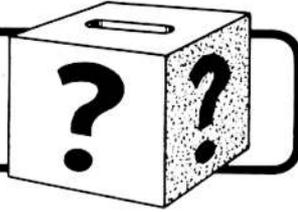
Keith Bryant, Paducah

Bell .... 369

Doug Carter, ORGDP

Ext. .... 3-3434

## QUESTION BOX



If you have questions on company policy, write the Editor, Nuclear Division News (or telephone your question in, either to the Editor, or to your plant contact). Space limitations may require some editing, but pertinent subject matter will not be omitted. Your name will not be used, and you will be given a personal answer if you so desire.

**QUESTION:** Can't something be done to make the Y-12 Telephone book more usable? I recently tried to locate benefit plans, the nurses' reception desk and the eye department at the Y-12 Dispensary. None of these was listed. I decided to call *Nuclear Division News* to pose my question. The newspaper isn't listed. I called information and was given the wrong number. Can't something be done about the telephone book? It would sure save time.

**ANSWER:** UCC-ND management has recognized certain inadequacies in the plant telephone directories and has taken action to correct them. About August 1 a new directory was issued which includes a merger of the three Oak Ridge plants and the Paducah plant. According to R. F. Hibbs' letter which prefaced the directory, "The revised design is intended to facilitate more rapid location of desired phone numbers when searching for names, organizational or functional units, or service offices."

In response to the specific complaints in your question, the Benefit Plans office was listed on page 5-1 of the Y-12 Plant directory dated 11/14/74; and the nurses' reception desk and eye department were listed under "Health Center" on page 5-10. Through an oversight the Nuclear Division News was not listed, but it is in the new directory.

**QUESTION:** Since motorcycles use far less gasoline than cars, I believe that persons who drive motorcycles to work deserve some extra consideration for their contribution to energy conservation. I work at ORGDP and ride a motorcycle to work, but because no spaces are set aside for motorcycle parking, we must park them in the parking lot where they are easily stolen. Would it not be possible for ORGDP to provide motorcycle parking spaces close to the guard sheds at each portal to provide some additional protection for the cycles?

**ANSWER:** Plans are currently underway to provide designated motorcycle parking in each major parking area at ORGDP.

**QUESTION:** Some of us believe that highly qualified, high performance people are and have been passed over for promotion to the monthly roll and other desirable positions in deference to those less-qualified and of less importance because of membership or non-

membership in the Masons with the attendant injustice to the individual, the company and the government. What is the percentage of monthly people who belong to the Masonic Lodge relative to the total number of monthly? What is the relative percentage of the general population of the area or even the plant as opposed to those who are Masons? Do these figures reveal anything to you?

**ANSWER:** We don't keep track of organizations to which employees belong. Our basic policy is to offer employment and opportunities for advancement on the basis of merit.

**QUESTION:** Employees who work 30 years for Carbide and retire are given a nice plaque thanking them for their 30 years of loyalty to the Company; but employees who retire for medical reasons are not given this. Is their 30 years of service less loyal?

**ANSWER:** As a result of your question, this matter has been reviewed. In the future we will present a suitable plaque or certificate to each employee who has attained age 55 with 10 or more years of Company service when the employee takes normal or early retirement, or receives a medical termination with disability benefits from the Pension Plan.

**QUESTION:** Why has not a job bid, dated late February at ORGDP, or early March, for MM2/c been completed? I have received no answer, pro or con, on my bid. Is four months a normal time period for completion of these bids?

**ANSWER:** The bid of Maintenance Mechanic 2/c was published on January 17, 1975, and removed January 24, 1975. The selection process was completed February 10, 1975; and at that time, appropriate notification slips were sent to respective division offices.

In order to determine what happened on your bid, we would have to know your name, department, and division.

Please contact the Employment Office at your earliest convenience.

**QUESTION:** A statement in the March 6 issue of *Nuclear Division News* in the article on the job opportunity system reads: "Naturally, qualifications are the major factors in the selection process." Are there any jobs that have been or are now open for which the job qualifications listed are not the major factors? (This is excluding the attempt to place minorities in a different job.) Also, what is meant by "in-line promotions"?

**ANSWER:** Job qualifications are the major factors in the selection process for all the jobs filled through the job opportunity system. There may be

## J. E. Turner named assistant to Lab's associate director

James E. Turner has begun a special one-year appointment as assistant to Chester R. Richmond, associate director for Biomedical and Environmental Sciences at Oak Ridge National Laboratory. He succeeds Kenneth E. Cowser, who is on leave of absence to the Energy Research and Development Administration Headquarters in Washington.

Turner, a Laboratory staff member since 1962, is associate director of the Health Physics Division. He plans to return to this position after completion of the new assignment, which began July 1, 1975.

Turner grew up in Savannah, Ga., where he attended Armstrong College. He received his bachelor's degree in physics from Emory University, his M.S. in industrial hygiene from Harvard University, and his Ph.D. in physics from Vanderbilt University. Turner also did graduate study as a Fulbright Scholar at the Georg August University in Göttingen, Germany. He was certified by the American Board of Health Physics in 1966 and is a Fellow in the American Physical Society.

Prior to joining the Laboratory, Turner taught physics at Yale University. He also worked as a radiological physicist with the U.S. Atomic Energy Commission (now ERDA).

Turner served in various technical and administrative positions in health physics prior to becoming associate director in 1974. He was consultant for the World Health Organization at the Bhabha Atomic Research Centre, Bombay, India, in 1967 and 1973. He spent a year on assignment from

occasions, as you indicate, when exceptions are made to meet affirmative action goals. In all cases, however, only those persons are selected whose qualifications indicate they can perform the job satisfactorily. "In-line promotions" are those related primarily to an employee acquiring more experience in the same job; for example, from keypunch trainee to keypunch I or from draftsman trainee to draftsman to engineering draftsman.

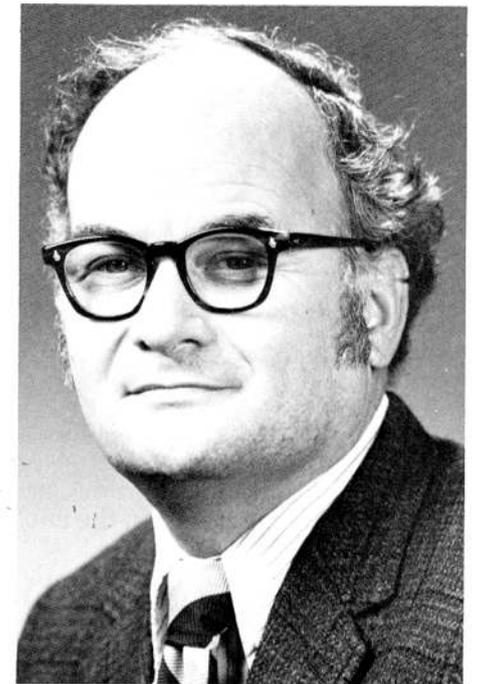
**QUESTION:** What are the legal aspects of the act of secretly recording conversations (not phone calls) by one of the parties?

**ANSWER:** An attorney should be consulted for legal advice. The code of conduct for some professionals prohibits secretly recording certain conversations.

The disclosure or improper use of secretly recorded conversations is the source of risk for the person making such recordings.

**QUESTION:** Why are there three or more timekeepers at the Y-12 Plant receiving top pay, and none at ORGDP? This is not a supervision problem as we have debated this issue for years now. This is also not due to continuous service date or qualifications.

(Continued on page 8)



James E. Turner

ORNL at CERN, the joint European laboratory for high-energy physics in Geneva, Switzerland.

Turner has taught physics at Vanderbilt University and The University of Tennessee. He has co-authored one book and co-edited another in the fields of radiation physics and radiation protection. He and his wife, the former Renate Gericke of Germany, recently translated a book on health physics from German into English.

The Turners reside at 127 Windham Road, Oak Ridge, with their three children.

## Ford, Mooney named foremen at ORGDP



B. J. Ford

J. F. Mooney

Two new foremen have been named at the Oak Ridge Gaseous Diffusion Plant.

Bobby J. Ford has been promoted to a maintenance foreman in the Fabrication and Maintenance Division. He worked as an electrician and engineering assistant at the Laboratory before coming to ORGDP in 1973.

A native of LaFollette, he attended Lincoln Memorial University.

Ford and his wife, the former Betty J. McGill, live at 231 South Purdue Avenue, Oak Ridge. They have two children, Lisa and Tommy.

James F. Mooney has also been named a maintenance foreman. A native of Freemont, Va., he has been at ORGDP 29 years. He served in the U. S. Air Force during World War II, and worked with the Ritter Lumber Company before joining Union Carbide.

He and his wife, the former Jean Markland, live at 100 Turner Road, Oak Ridge. They have one son.

*Division Retirees*



**R. G. Campbell**



**R. C. Clemens**

Eight employees retired from Oak Ridge National Laboratory at the end of July.

Robert G. Campbell took early retirement following 25 years with the Nuclear Division. An animal facility assistant in Biology Division prior to his retirement, he resides at 1305 Moses Avenue, Knoxville.

Robert C. Clemens, who had been a pipefitter in Plant and Equipment Division, also took early retirement. He had been with the Laboratory since May, 1952. Clemens lives at Route 2, Maryville.



**C. Jones**



**B. B. Klima**

Charlie Jones ended 30 years' company service with early retirement. He was a laborer in the Plant and Equipment Division. Jones' home is at 116 Bettis Lane, Oak Ridge.

B. Bartley Klima, a design engineer in Chemical Technology Division, has retired after 22 years with the Nuclear Division. He lives at 316 East Drive, Oak Ridge.



**F. N. Leathers**



**H. Oliphant**

Floyd N. Leathers, a rigger and iron worker in Plant and Equipment Division, has taken early retirement. Leathers, who resides at Route 1, Oakdale, joined the Laboratory staff in July, 1950.

Hubert Oliphant has ended 22 years' company service. A cost engineer in Engineering, he lives at 117 West Hutchinson Circle, Oak Ridge.



**L. R. Trotter**



**M. E. Wimberley**

Luther R. Trotter has taken early retirement from his position as a science technologist in Metals and Ceramics Division. Trotter, who joined the Nuclear Division staff in November, 1949, lives at 116 Concord Road, Concord.

Marion E. Wimberley has ended 25 years' company service with early retirement. He was a millwright in the Plant and Equipment Division. Wimberley's home is at Route 4, Kingston.



**B. T. Newman Jr.**

Benjamin T. Newman Jr., a veteran of more than 30 years, retired August 1 from ORDGP's Finance, Materials and Services Department. He lives at 100 East Judd Lane, Oak Ridge.

William C. McMahan also retired from ORGDP August 1, after working in the Fabrication and Maintenance Division. He completed 29 years of UCC service, and lives at Route 4, Wade Road, Loudon.

**PATENTS** *Granted*

John G. Castle Jr., ORNL, for "Ion-Beam Mask for Cancer Patient Therapy."

Wayne F. Johnson and William A. Walker, both of ORNL, for "Programmable Positive Displacement Pump."

To Charles R. Schmitt and John M. Googin, both of the Y-12 Plant, for "Porous, Microspheroidal, Nuclear Fuels Having Internal Porosity."

To Charles H. Thompson and Fred W. Jones, both of the Y-12 Plant, for "Apparatus for Measuring Tool Path Accuracy."

To Charles E. Harless and Ward G. Taylor, both of Paducah Gaseous Diffusion Plant, for "Bellows-Forming Apparatus."

**Paducah Gaseous Diffusion Plant announces additional promotions**

Additional promotions have been announced at the Paducah Gaseous Diffusion Plant.

Leo F. Fields has been promoted to a process foreman in the Operations Division. A native of Benton, Ky., he has been with Union Carbide 27 years, and worked at the U.S. Post Office before joining the Paducah organization. He lives at 725 North 26th Street, Paducah, with his wife, the former Gladys Bolin. They have a daughter and a son.

George W. Hollowell is a new foreman in the Maintenance Division. He was born in Water Valley, Miss., and has been with UCC more than 27 years. He attended the Institute of Electronic Technology and worked with the Illinois Central Railroad. He and his wife, the former Vivian Wilhite, live at 101 Park Lane, Lone Oak.

William S. Jones is also a new foreman in Maintenance. A native of Springfield, Tenn., he has been with Carbide eight years, and is a graduate of West Kentucky State Vocational Technical School in electronics. He and his wife, the former Carrie Johnson, live at 752 Levin Avenue, Paducah. They have two sons.

James F. Lansden is a new foreman in the Operations Division. Born in Greenville, Ky., he has been with Carbide 17 years and holds a B.S. degree from Murray State University. He worked with Pennault and the Equitable Life Insurance Company. His wife is the former Shirley Mathes and they have two sons. They live at 3635 Gregory Avenue, Paducah.

Ervin L. Perkins has been promoted to a foreman in the Operations Division. A native of Perry, Okla., he has been with Carbide more than seven years. Prior to joining UCC, he worked with Glandville Ford, KAS Potato Chip Company, Smith Poultry Company and Mayfield Maytag Company. Mrs. Perkins is the former Betty Jean Wylie. They live at Route 4, Mayfield and have four sons and a daughter.

Green N. Riley has been named an inspector in the Inspection Department. A native of Kuttawa, Ky., he worked with Pittsburg Metals at the Kentucky State Prison. He and his wife, the former Avis Driskill, live at Ledbetter, Ky., with their three sons.

Forrest P. Smith has been promoted to a process foreman in the Power, Utilities and Chemical Operations Division. He was born in Paducah, and holds an associate of science degree from Paducah Junior College. He has been with Union Carbide 23 years. Mrs. Smith is the former Virginia Culp, and the couple lives at Route 9, Paducah. They have two sons.

Perry N. Smith has been named a foreman in the Electrical Maintenance Division. He was born in Bessemer, and attended the University of Alabama, Paducah Community College and Murray State University. He has been with UCC 14 years. He and his wife, Sara,



**L. F. Fields**



**G. W. Hollowell**



**W. S. Jones**



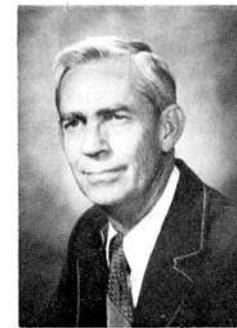
**J. F. Lansden**



**E. L. Perkins**



**G. N. Riley**



**F. P. Smith**



**P. N. Smith**



**J. S. Triplett**



**M. D. Wicker**

live at Route 2, Mayfield. They have three children.

John S. Triplett is a new foreman in the Finance and Materials Division. A native of Caldwell County, Ky., he served in the U.S. Army during the war in Korea. He joined Union Carbide in 1952. He and his wife, Helen, live in LaCenter. They have one daughter.

Morris D. Wicker is a new instrument foreman in the Maintenance Division. Born in Paducah, he attended the Institute of Electronic Technology, and joined Union Carbide in 1966. Mrs. Wicker is the former Elizabeth Phelps, and they live at Route 3, Kevil, Ky. They have one son.

## Organization changes announced in Lab's Thermonuclear Division

Several organizational changes have been made in the Thermonuclear Division at Oak Ridge National Laboratory.

Under the direction of John F. Clarke, Division Director, and Bill Morgan, Associate Director, the fusion research and development effort will be supervised by six department managers and the manager of the fusion reactor technology program.

The ORMAK section, which has been under the direction of George G. Kelley, has been divided into two departments. Lee A. Berry will serve as manager of the low beta plasma department which has responsibility for the ORMAK and a new tokamak called ISX. The advanced systems department, including advanced systems design activities, experimental fusion reactor design and demonstration plant studies, will be managed by Michael Roberts. Kelley has been appointed to a senior staff position and will be responsible for scientific review of the departments and fusion reactor program.

### Stewart to lead

The energetic particle injection group has expanded its activities in neutral beam plasma heating in support of the ORNL program and similar programs at Princeton and General Atomic, and is now the plasma heating department. Larry D. Stewart will serve as manager of the department, which will also be responsible for developing radio-frequency plasma heating and fusion reactor fueling technology.

The plasma theory department will be headed by James D. Callen. Gareth E. Guest, former manager of the plasma theory section, left the Division on July 1 to direct the fusion theoretical work at General Atomic Company in San Diego.

The high beta plasma group, which pioneered the development of a unique plasma confinement approach called the Elmo Bumpy Torus, will be roughly doubling its activities this year as the high beta plasma department. Raphael A. Dandl, formerly an associate director in Instrumentation and Controls and the originator of the EBT concept, has transferred to the Thermonuclear Division to serve as department manager charged with developing newer and larger EBT experiments. The department will also be responsible for developing the microwave power sources which are necessary for the advancement of this promising fusion technique.

The engineering sciences department remains under the leadership of Hugh M. Long. The department will have greatly expanded responsibility for the development of superconducting magnets for the United States fusion program.

Don Steiner will continue management of the fusion reactor technology program which now has activities in six divisions of the Laboratory.

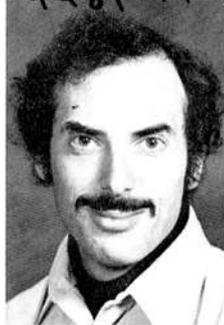
The ORNL fusion program encompasses most of the essential research and development activities that will be critical to the operation of the first fusion reactor, and is an essential part of the national fusion program.



G. G. Kelley  
4484-74



L. A. Berry  
4504-75



M. Roberts  
4518-75



L. D. Stewart



J. D. Callen



R. A. Dandl



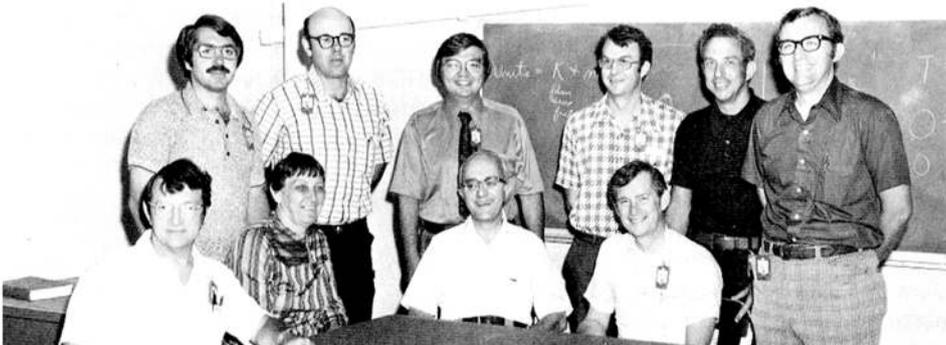
H. L. Long



D. Steiner

### Next Issue

The next issue will be dated September 4. The deadline is August 21.



**HEALTH PHYSICS FACULTY INSTITUTE** — Oak Ridge National Laboratory's Health Physics Division is currently hosting the second annual Faculty Institute in Health Physics Technology, a clinic for instructors of courses in environmental sciences and/or radiological studies. The 10-week institute, which combines lectures with field training, is being held in cooperation with the Oak Ridge Associated Universities' Special Training Division. Myron Fair, Health Physics, and Roger Cloutier, Special Training, are heading the program. This year's participants are: seated, from left, Edward B. Barnes, West Virginia State College; Sarah A. Smith, University of North Alabama; Fair; and Robert C. McIlhenny, Louisiana State University. Standing, from left, James H. Barker, St. Louis University; Thomas M. Willard, Florida Southern College; Harold T. Larson, Grand Valley State College; Ernest L. Madsen, Pembroke State University; Homer E. Holloway, West Virginia Wesleyan College, and Keith G. Walker, Bethany Nazarene College.

## White, Douglass, Limburg elected by professional groups

Three Nuclear Division staff members have recently been elected to office in professional organizations.

James C. White, director of the Oak Ridge National Laboratory's Analytical Chemistry Division since 1972, has been elected secretary of the Analytical Chemistry Division of the International Union of Pure and Applied Chemistry for 1975-79. He will take office after the IUPAC Conference in Madrid, Spain, in September.

White is currently secretary of the IUPAC Analytical Chemistry Division's Commission V.7, Analytical Radiochemistry and Nuclear Materials, of which he is also a voting member.

Thomas E. Douglass, superintendent of the design engineering department at the Oak Ridge Gaseous Diffusion Plant, is president-elect of the Tennessee Society of Professional Engineers.

Douglass has served in various offices of the state and local chapters of the Society of Professional Engineers, and was Oak Ridge Chapter president in 1969.

Robert F. Limburg, finance manager for advanced energy systems in the Finance and Materials Division, ORNL, has been elected president of the Knoxville-Oak Ridge Chapter of the National Association of Accountants. Limburg, who joined the Nuclear Division staff in April, 1969, was previously finance manager for ORNL's Energy Division.

## PATENTS Granted

To Donald E. Hendrix, Richard E. Ziegler, both of the Oak Ridge Gaseous Diffusion Plant, and Weldon F. Swinson, Auburn University, for "Blade Transition for Axial Flow Compressors and the Like."

To Joseph J. Asbury, Oak Ridge Gaseous Diffusion Plant, for "Aluminum Titanate Crucible for Molten Uranium."



Melvin E. Koons

## IC director's duties to include additional industrial functions

Melvin E. Koons, an executive assistant in the office of Nuclear Division President Roger F. Hibbs, has been designated as the Division's principal contact in such areas as industrial development, technology spinoff and commercialization activities, and consulting.

Koons also serves as director of the Division's Industrial Cooperation Program. In this position he is responsible for the coordination of the Division's efforts to stimulate commercialization and technology utilization by private industry and state and local governments.

A native of Minneapolis, Minn., he holds degrees in law and journalism from the University of North Dakota. In addition, he has taken special courses at the Judge Advocate General School at the University of Virginia.

Prior to joining the Nuclear Division, he worked for seven years with Oak Ridge Associated Universities where he was head of the office of Legal and General Services.

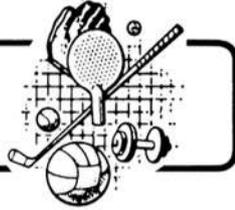
Active in community affairs, Koons is a charter member and past president of the Oak Ridge Chapter, Sertoma International. He served for five years at Oak Ridge campaign director for the March of Dimes, is a member of the Industrial Development Division of the Oak Ridge Chamber of Commerce and is a member of the Board of Directors of the Y-12 Credit Union.

He and his wife, the former Melly Meldahl, live at 104 Macon Lane. They have four sons.

### Radioisotope Facility

Among the first new facilities to be completed at the Oak Ridge National Laboratory after Union Carbide assumed its operation in 1948 was a radioisotope processing area consisting of 10 buildings, especially designed for the chemical processing, storage, packing, and shipping of radioisotopes. Radioisotopes were the first major peaceful use of nuclear energy and were made available for public sale in 1946.

# RECREATIONOTES



**SUMMER AFTERNOON** — Another picnic at Clark Center Recreation Park featured groups from Y-12 Product Engineering and Scheduling. The Saturday in July picnic featured a match between the Batch Bombers and Bostock Bums ... the Bombers winning 14 to 4. There were clogging and other pleasantries, including eating.

## SOFTBALL LEAGUES

Softball leagues finished action recently with a crown going to Artie's Army in the Nuclear League with a perfect 15-0 record! In the Atomic League, however, there was a different story. The E.S.D. team and the Snakes tied for top slot. A best-of-three series gave the title to E.S.D., as they won the first two games 11-8 and 11-8. A tournament is being played this week.

Final standings follow:

### NUCLEAR LEAGUE

	W	L
Artie's Army	15	0
Rats	13	2
The Pubs	11	4
Avengers	11	4
Knuckle Balls	10	5
Bio Rejects	9	6
Labor Gang	8	7
Alphas	8	7
McPack	8	7
Bombers	7	8
Al's Pals	5	10
T.A.T.	4	11
Odds & Ends	3	12
Mamas & Papas	3	12
The Outlaws	3	12
The Mad Batters	2	13

### ATOMIC LEAGUE

	W	L
E.S.D.	15	3
Snakes	13	5
Computes	11	5
Gashouse Gang	11	5
Raiders	7	9
Red Barons	5	10
Shifters	5	11
Supersonics	5	11
K-25 B Shift	1	14

## ANNUAL HOOTENANNY

Attention K-25ers! Save Saturday, September 27. The annual hootenanny-barbecue will be held on that date at the Clark Center Recreation Park. Plans are in the making, and more information will follow.

## PRESIDENTIAL SPORTS AWARD

Robin E. Textor, ORGDP, has been given a Presidential Sports Award for jogging.

## CARBIDE BOWLING

The Oops team stays atop the Carbide Family Mixed League, as the season nears summer's end. They are two and one-half points in front of the Pinsetters. Elmer Johnson and Jim Steele tied recently for series honors, each with 578. Mary Hawkins led women bowlers with a 509 series. Bowlers interested in getting in on the action for the new season should contact Edith Duckworth, extension 3-5341, or the Recreation Department, extension 3-5833. The league rolls on Friday nights.

## OAK RIDGE — KNOXVILLE BOWLING

Bowling leagues are forming for almost any night in the week for Oak Ridge keglers, and plans are underway for a Carbide league to be formed to roll at Western Plaza lanes as well for Knoxville bowlers. If interested in any of these leagues, as a team, or as a team member, contact the Recreation Department, extension 3-5833.

## Graphite Reactor 32 Years Old

Oak Ridge National Laboratory's Graphite Reactor achieved initial criticality at 5 a.m. on November 4, 1943, and continued in operation as a major research device for two decades. The historic reactor, the second in the world, was placed on standby in 1963, designated a National Historic Landmark in 1966, and opened to the public in 1968.

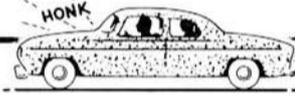
## Maps, publications for Paducah area

The Paducah Plant employees that are interested in maps and publications available to them through the Kentucky Department of Commerce can have access to a list that includes topographic, geological publications and industrial publications.

Aerial photos, aid to map reading, base maps highway maps, navigation charts, geologic maps of counties, Kentucky soil surveys, mineral resources, water resources and many other facts of the state may be ordered.

The list and ordering instructions may be obtained in the personnel services section in the office of Keith Bryant, Room 150-A, C-100 Bldg.

## WANTED



### ORGDP

CAR POOL members wanted from Norwood, Inskip sections, to Portal 1, 4, 7 or 9, straight day. Ed Bordes, plant phone 3-9214, home phone Knoxville 687-3324.

### ORNL

RIDERS or JOIN CAR POOL from West Outer Drive — Louisiana Avenue area, Oak Ridge, to East Portal, 8 to 4:30 shift. Anne St. Clair, plant phone, 3-0231, home phone Oak Ridge 482-2766 (after September 1).

JOIN or FORM CARPOOL from Meadowview Garden area, Harriman, to East or South Portal, 8 a.m. shift. O. V. Gentry, plant phone, 3-6272; home phone, Harriman 882-1984.

JOIN CAR POOL from vicinity of Linden School, west end of Oak Ridge, to East or South Portal, 8 or 8:15 a.m. shift. E. W. McDaniel, plant phone 3-1429; home phone, 483-0633.

RIDE or JOIN CARPOOL from Broadacres Subdivision (Powell) to East Portal, 8 or 8:15 a.m. shift. Sue Damewood, plant phone, 3-1261; home phone 947-0670.

JOIN CARPOOL from Cedar Bluff area (Gulf Park) to East Portal, 8:00 - 4:30 shift or earlier. Joe Pace, plant phone 3-6022, home phone 690-0325.

RIDE or JOIN CARPOOL from Garden Apartments, Oak Ridge, to East Portal, 8 or 8:15 a.m. shift. Lois Morris, plant phone 3-6836; home phone, 483-1179.

### Y-12 PLANT

RIDE from Lenoir City to Bear Creek Portal, straight day. R. D. Atkins, plant phone 3-5080, home phone Lenoir City 986-8859.

### BLOODMOBILE VISIT

The American Red Cross bloodmobile will visit Oak Ridge September 10 and 11. Hours on the 10th are from 3 to 9 p.m. ... on the 11th from noon until 6 p.m.

All Anderson Countians are covered for blood needs, and other residents may donate in the drive to provide total coverage for themselves and their families.

The bloodmobile visit is scheduled at the Oak Ridge Armory on the Turnpike.

## COMPANY Service

20 25 30

### Y-12 PLANT 25 YEARS

Roy J. Johnson, Clarence J. Maddux Jr., Burneth R. Cabage, Nerg B. Bloomer Jr., John F. Gregory Jr., Paul Abner, Charles E. Helfenberger, Harold D. Cofer, David W. Smith, Raymond E. McNew, Alford T. Wallace, Theodore W. Robinson, Frank C. Winstead Jr., William C. Geldmeier, Ralph J. Malone, Rolland J. Spurling, Marley L. Cooper, Orren K. Sergeant, Charles E. Bolyard and Howard H. Pratt.

### 20 YEARS

William E. Wilson and Olin G. Proffitt.

### GENERAL STAFF 30 YEARS

Gladys H. Walker, Computer Sciences Division; Robert A. Carter, ORGDP computing applications; and Trixie S. Wheeler, Computer Sciences Division.

### 25 YEARS

Helen F. Murphy, Kate I. Gresham and Betty D. Plemons.

### PADUCAH 20 YEARS

Joyce D. Tasley, Charles W. Hawkins, Willis H. Dowell, Bill T. Kraemer and James E. Smith.

### ORGDP 30 YEARS

Preston Goforth, utilities operation; William Bradley Jr., Oak Ridge area electricity distribution; Roy C. Hembree, fabrication shop; Crawford D. Pike, utilities operation; Donald E. Morris, U-235 separation department; Clarence N. Grady, utilities operation; Fred A. McCrary, fabrication shop; Lavere C. Wrights, U-235 separation department; Roy H. Duncan, maintenance engineering; Charles E. Hood and Curtis W. Bush, utilities operation; Everett J. Fraley and T. J. Bunch, U-235 separation department; Troy C. Young, materials and systems; Robert K. Brooks, U-235 separation department; Edward C. Johnson, separations plant department; Artist O. McGaha, U-235 separation department; Dennis E. Garrison, fabrication shop department; Sherman R. Thornton, fabrication shop; Lemuel P. Edwards and Boyd H. Forester, U-235 separation department; Allan H. Jordan, barrier TIA manufacturing; Fred L. Kreger, shop services department; James W. Workapick, building maintenance department; and Roy L. Freeman, materials and services.

### 25 YEARS

John G. Cooke and Edwin A. Farmer.

### 20 YEARS

Roy C. Byrd.

### HOLE-IN-ONE

C.K. Thomas, ORNL, recently fired a hole-in-one at the Lakeside Golf Course in Kingston. Teeing-off on hole number two, he hit the ace, 140 yards down the fairways, using a seven iron. His sons were witnesses to the happy occasion.

# The Medicine Chest

(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 20, Y-12, or call the news editor in your plant, and give him your question on the telephone.)

By T. A. Lincoln, M.D.

**QUESTION:** "I read an article in *Family Circle* that a British physician, Dr. Constance Spittle, has found that vitamin C may help prevent atherosclerosis and coronary heart attacks. Is there anything to her ideas?"

(Editor's note: atherosclerosis is an arteriosclerosis characterized by a thickening of, and loss of elasticity in, the inner walls of arteries.)

**ANSWER:** The role of vitamin C (ascorbic acid) in the synthesis and metabolism of cholesterol and its effect on blood vessels is as yet poorly understood. Nevertheless, there have been enough studies done to convince a number of research investigators that vitamin C is an important factor in the development of atherosclerosis.

Several observers have noted that there is an early change in the intercellular ground substance in the lining of arteries at points of mechanical stress which precedes the deposition of fat. This stress is caused by a repetitive stretching of the artery wall due to pulse, blood pressure and surrounding tissue pressure as well as the size and curvature of the artery. Following breakdown of this ground substance, fat is gradually deposited and years later, atherosclerotic narrowing of the vessel occurs. The early changes look remarkably like the lesions seen in scurvy, a vitamin C deficiency disease.

## Vitamin C and cholesterol

The easiest way to produce atherosclerosis in experimental animals is to put them on a vitamin C deficient diet and then feed them a cholesterol-supplemented ration. Dr. G. C. Willis, Department of Pathology at Montreal General Hospital, concluded over 20 years ago that any factor which upset ascorbic acid metabolism, either locally or systemically, and caused an injury to the basic ground substance in the walls of arteries, would promote the subsequent development of atherosclerosis. More recently it has been shown that lipoprotein lipase activity, an enzyme involved in the metabolism of fats, goes down as the serum cholesterol goes up. It can be maintained at near normal levels in animals given ascorbic acid-supplemented but high cholesterol diets.

In 1971, Dr. T. K. Fujinami of Japan noticed that guinea pigs, who, like human beings, do not synthesize their own ascorbic acid, have much lower serum ascorbic acid when they

are fed a high fat diet. This finding suggests that humans who have a high fat diet may need much higher levels of vitamin C.

In humans, ascorbic acid seems to be of some help in bringing down triglycerides, but even in large doses it does not usually lower serum cholesterol. Supporters of ascorbic acid say this is due to mobilization of cholesterol from the walls of diseased arteries.

Dr. Spittle claims that a balance exists between vitamin C and fat. If the vitamin is high, cholesterol is delivered to the liver to be made into bile acids. Beta lipoproteins (fatty proteins found in the walls of diseased arteries) stay low. The lipoprotein lipase activity is high so the triglycerides stay low, and the arteries remain well supplied by healthy ground substance, so they remain clean. An attractive story but not yet proven!

## Connected with drugs and tobacco

A recent review article in the *American Journal of Clinical Nutrition* indicates that there is considerable interest in ascorbic acid-cholesterol interactions. It is now being appreciated that people who consume aspirin and many other drugs or who smoke tobacco have considerably increased requirements for ascorbic acid. Atherosclerosis is a complicated consequence of genetics, diet, exercise, aging, stress and exposure to numerous toxic substances. If the role of ascorbic acid can better be understood, it may eventually become one way to try to delay the development of this universal disease.

Vitamin C, however, has not been shown to be conclusively beneficial in patients who already have atherosclerosis. On the basis of present evidence, it would be grossly premature to go on another vitamin C binge. The last one on the common cold appears to have been a bust, or at least a disappointment. Those who take large doses of vitamin C are probably doing no harm, possibly doing some good, and are certainly making the manufacturers of vitamin C very happy!

**QUESTION:** "I was interested in your recent column on stings and bites from insects. I am not allergic to any of these, but am interested in a "sting-kill" type pain-reliever. Isn't there something available commercially that relieves the pain of a sting? I know power companies, especially the TVA, issue such items to linemen and other outdoor workmen."



**NEW SYSTEM AT WORK** — Some of the staff members responsible for reprogramming of Russian-to-English translation for the IBM 360 to 370 models watch a computer terminal at the Laboratory. From left are A. F. R. Brown, Michael Zarechnak, Martha Gerrard and Francois Kertesz.

## Paducahan's daughter graduates with honor

Renee Holland, daughter of Rubin L. Holland, a supervisor in Paducah's plant services department, has graduated with high honors at Lambuth College, Jackson, Tenn.

Renee, an honor graduate of Tilghman High School where she was active in choir, drill corps, Spanish Club, Young Historians, was a student assistant in the chemical and biological laboratories. She was a semi-finalist in the National Merit competition and was selected to the Society of Outstanding American High School students.

Doing her undergraduate work at Lambuth, she made the Dean's list many times and received various scholarships with full tuition.

She plans to attend the University of Alabama this fall to study microbiology.



Renee

## Y-12's Beginnings

Ground was broken on February 1, 1943, for the first Y-12 Plant building. The first production building was put into use on January 27, 1944, by the operating contractor, Tennessee Eastman Corporation, a subsidiary of Eastman Kodak Company. Three years later, Tennessee Eastman indicated a desire to withdraw as operator, and Union Carbide assumed operation of the plant on May 5, 1947.

**ANSWER:** The application of baking soda to a bee sting has been used since pioneer days. Ice applied to a sting helps reduce the swelling and pain. We have found at ORNL that a preparation called "Sting Kill Swab," made by Marion Health and Safety, Inc., is quite effective in reducing pain and swelling when applied to the area of the sting within a few minutes. It contains 30 percent triethanolamine but I have been unable to find out the mechanism for its action.

## Computerized Russian-to-English Translation Resumed at Laboratory

Computerized Russian-to-English translation, an 11-year-old Oak Ridge project which was stopped early in 1974 when the IBM 7090 computers were retired, has been resumed following extensive reprogramming work by Nuclear Division staff and consultants.

Now running on the IBM 360 and 370 models, the new system recently completed its first big "assignment" — the translation of an entire book on aerosols, done for the Energy Research and Development Administration's Atmospheric Turbulence and Diffusion Laboratory.

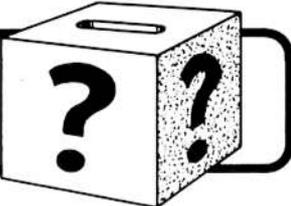
Reprogramming of the system began in 1972, when it became known that the 7090 system would be replaced by the current models. Nuclear Division staff members who have been involved in the project include Fred Hutton, computer applications department at the Oak Ridge Gaseous Diffusion Plant; Martha Gerrard, head of the office of language services in the Information Division, Oak Ridge National Laboratory; Ray R. Dickison, library director in the Information Division; and Sarah Jordan, a Computer Sciences Division consultant.

Working with local staff on the reprogramming task have been several consultants who were also involved in work on the original project. They are: Francois Kertesz, a former Laboratory staff member; A. F. R. Brown, author of the programs used in the 7090 system, and Michael Zarechnak, who devised the linguistic approach used in the original system. All involved staff met at the Laboratory in June to discuss the present status of the reprogrammed system and to plan for future development.

The computer translates over 100,000 words an hour, compared to about 100 words an hour by a human translator. Computer translation is a service available to government-connected agencies as well as local scientific staff.

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# QUESTION BOX



(Continued from page 3)

**ANSWER:** The minimum and maximum of the salary range for the timekeeper position are identical at each plant. The salary policy which regulates the frequency and amount of increases is also the same. If there is no difference in the length of time on the job, then any difference must be in the supervisor's appraisal of the level of the employee's performance at the respective plants.

**QUESTION:** I noticed in a local newspaper a few weeks ago where some of the women guards at UCND had been interviewed. One of the women mentioned that she had been a secretary at one time but became a guard because the money was good. Does this mean that guards are paid a higher salary than secretaries? If so, I want to apply.

I understand a high school education is not required to be a guard; is this true? It seems unfair that a secretary is paid a lower salary than a guard. After all, it takes time to prepare yourself for a secretarial position — either college or business college and secretaries have a lot of responsibility.

**ANSWER:** The first level secretary position is a level three job with a broad salary range. The guard rate falls near the third quartile of this range; therefore guards are paid more than some secretaries who are in this first level. There are five other levels for secretarial positions above this level and more promotional opportunities for advancement for the secretarial group.

Yes, the academic requirements for secretaries are different from those of the guard position. Job worth is not determined by academic requirements alone but also by such things as working conditions, physical comfort, monotonous routine, etc. Many guards are required to stand for long hours while manning isolated posts; the guard is responsible for

plant security; he must control ingress and egress to the plant; and he is responsible for the protection of both property and personnel from unlawful elements.

There are openings from time to time for positions on the guard force. If you are interested, contact your employment department.

**QUESTION:** An employee works 11 months and is on Leave of Absence from late November until mid-January. Such a person is refused a safety award by the Company because he or she was not on the job on the 31st of December. Even though other employees are off the job on the same date for extended illness, say some even as long as 3 or 4 months, they still get a safety award. And in other situations, new employees who report for work late in December get an award even though they haven't contributed near the hours toward the safety program as someone who has worked 11 months.

**ANSWER:** Eligibility for safety awards was limited to those employees on the active payroll at the end of the calendar year to simplify administration of the plan. If you were on leave of absence, you were not on the active payroll. Many employees on leave do not return to work following the leave. Employees who are off due to illness are considered to be on the active payroll and normally do return to work following the illness.

Considerable effort would be required to prorate awards in accordance with actual time worked by each employee. The safety incentive program is not intended as part of the system of compensation. Its purpose is to assist in the daily tasks of encouraging all employees to work safely and avoid injury to themselves or fellow workers.

received his Ph.D. degree in veterinary pathology at Ohio State University in 1959. He came to the Laboratory from the University of California at Davis, where he was associate director for the Primate Center and an adjunct professor in the University's School of Veterinary Medicine. His special research interests are comparative and experimental pathology. He and his family live at 108 West Outer Drive, Oak Ridge.

Odell, named scientific director for the pathology and immunology section, has been a member of the Division staff since 1952. Born in Geneva, N. Y., he received his Ph.D. degree in zoology at Indiana University. His research interests are experimental hematology and mammalian physiology, with special interest in the production of blood platelets and the differentiation, maturation and regulation of megakaryocytes. The Odell family lives at 637 Pennsylvania Avenue, Oak Ridge.

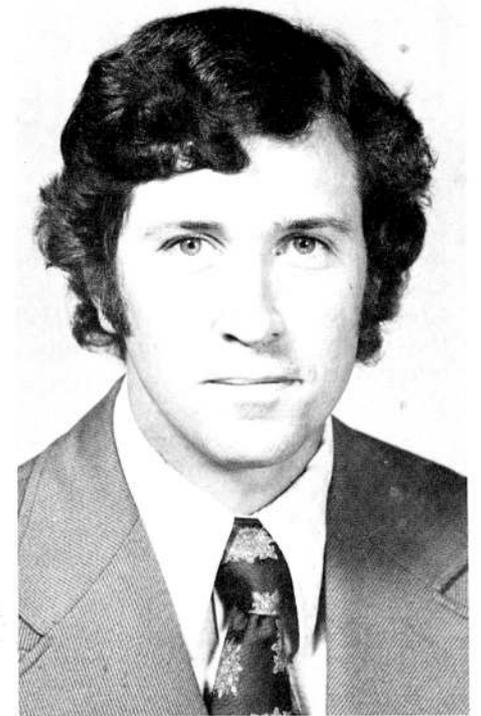
## G. Malone dies Aug. 6; was Laboratory baker

Gilbert (Gib) Malone, a baker in the Oak Ridge National Laboratory cafeteria, died August 6. He had been employed in ORNL's Employee Relations Division since June, 1952.



Mr. Malone

A native of Loudon and a World War II veteran, Mr. Malone was a member of Blairland Baptist Church. He is survived by his wife, Mrs. Bernice Smallen Malone, Route 2, Loudon; two brothers, two sisters, and his father- and mother-in-law. Services were held August 8 at Hawkins Funeral Home Chapel in Loudon, followed by burial in Loudon County Memorial Gardens.



William L. McMahan

## Engineers honor ORGDP's McMahan

The Tennessee Society of Professional Engineers has named William L. McMahan "Young Engineer of the Year." The award was presented at the society's annual meeting recently at Fall Creek Falls.

McMahan is the head of the separation development section at the Oak Ridge Gaseous Diffusion Plant.

The award goes to a registered professional engineer less than 36 years of age who has demonstrated growth in the field of professionalism, advancement of the goals of the TSPE and the elevation of the stature of engineering. Section selection is made from the 1,500-member organization annually.

McMahan, who holds an M.S. degree from Southern Illinois University joined Union Carbide in 1967. He lives at 108 Oklahoma Avenue, Oak Ridge, with his wife, Carol. They have three children.

## Calendar of EVENTS

### TECHNICAL August 22

Chemical Technology Division Summer Lecture Series: "Properties of Fluorine and Water," Henry Eyring, University of Utah. Central Auditorium, Building 4500N, 10 a.m.

Theory Seminar: "The Nature of Percolation Clusters," Paul Leath, Rutgers University. Isotopes Division Auditorium, Building 3047, 10:30 a.m.

### August 26

Health Physics Division Seminar: "Safety Compromises of Energy Research and Energy Conservation," Myer Bender. East Auditorium, Building 4500N, 10 a.m.

### OAK RIDGE SOCCER

Oak Ridge soccer will resume Wednesday, September 3, at 6:30. The play takes place at the Oak Ridge High School field.

## Biology Division's Griesemer, Odell in new positions



R. A. Griesemer



T. T. Odell

Richard A. Griesemer and Theodore T. Odell have been named to key administrative positions in the ORNL Biology Division.

Griesemer, appointed scientific director for the carcinogenesis program, joined the Division in 1973. He is a native of Andreas, Pa., and



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