UNION CARBIDE

NUCLEAR DIVISION NEWS

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

Vol. 4—No. 16 August 16, 1973

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 . . . see page two). You may or may not sign your name. It will not be used in the paper if you so desire.*

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: What are the nondeferred benefits referred to in Mr. Case's letter of April 16? Under the new proposed Pension Plan, will employees who retired under the Corporation's Contributory Retirement Plan receive a five percent increase on the payment from this plan? If so, is it anticipated that any future percentage increase in the pension payment will also be applied to payments from the Contributory plan?

ANSWER: The sentence that contained the reference to "nondeferred benefits" read "Monthly pension benefits for an employee who retired before 1973 with a nondeferred benefit will be increased by five percent ($10 minimum/$25 maximum) beginning January 1, 1973." The term "nondeferred benefits" means a pension benefit which a retired employee begins to receive at the time of his retirement as contrasted to one that a former employee is receiving as a result of applying for the pension benefit at some time after having left the Company. Actually, this restriction has since been removed and all former employees who were receiving pension benefits on January 1, 1973, will receive the five percent adjustment.

Yes, employees who retired under the Contributory Retirement Plan will receive the adjustment provided in the 1973 revisions to the Pension Plan. This was also the case when the Pension Plan was improved in 1969. We cannot predict, however, what may happen in the future.

QUESTION: We are well aware that the union members get to see any reprimand. Do some department heads at the Carbide installations keep their own private files on their weekly and monthly employees apart from those usually kept by the personnel department? If such is in fact the case, may an employee compel the production of these records by supoenae duces tecum?

Also, is it not true that these departmental files are not open to the personnel department and to security? If this is indeed true, is not the keeping of these records a violation of the constitutional rights of the employee?

ANSWER: An inherent part of each supervisor's responsibility is the performance of those employees who report to him. Maintaining records of performance is part of that responsibility. The purpose of a written reprimand is to officially advise an employee of needed improvement in a specific area. It is Company policy to give a copy of the written reprimand to the affected employee regardless of payroll.

The basic personnel records for all employees are maintained by the personnel offices. Other groups such as Payroll, Medical, and the employee's division and department offices maintain specialized and supplemental records necessary to carry out the responsibilities of the organizational unit.

Whether or not an employee can compel the production of any records is a matter to be determined by the court based on the facts and law applicable to the particular case and without such facts the question could not be answered in advance. An employee's constitutional rights are not violated by the maintenance of personnel records.

QUESTION: Since the **Nuclear Division News** is a Nuclear Division-wide newspaper, why are its policies inconsistent for treatment of news for all four plants? For example, a Y-12 employee who presents a talk in Knoxville is given both copy and picture coverage, while an ORNL employee who presents an invited paper at an international conference is only given a three-line write-up, or is not even mentioned in the ND News. I realize that more ORNL employees publish and orally present their work than employees at the other facilities, but why penalize them because they are greater in number and more literarily productive? If you can't give the same coverage to all, why give it to some?

ANSWER: The editors of **Nuclear Division News** have never played a "numbers game" concerning coverage in the newspaper. However, after receipt of your question, the editors went back over the newspaper and found that during a six-month period, 54 ORNL employees

(Continued on page 8)

Engineering divisions' functions consolidated at three facilities

12 908

Consolidation of all general engineering functions in the Nuclear Division, Union Carbide Corporation, under the Production Engineering Organization has been announced by Roger F. Hibbs, Nuclear Division President.

Hibbs also announced two new major appointments: Myer Bender as Engineering Manager at the Oak Ridge National Laboratory; and Finis S. Patton Jr., as Engineering Manager for the Oak Ridge Gaseous Diffusion Plant and for the balance of the design engineering organization.

Advantages stressed

Hibbs stressed the advantages of consolidating the general engineering functions. Among these he listed: better utilization of total engineering resources; greater adaptability for a wider range of activities; and greater professional and promotional opportunities for Nuclear Division engineers.

Bender and Patton will report to George R. Jasny, Director of Engineering for the Nuclear Division. Also reporting to Jasny will be William K. Whitson Jr., who continues as engineering manager at the Y-12 Plant, and A. Paul Huber, who continues as manager of the capacity expansion team which is responsible for coordinating cascade improvement, power uprating and plant test programs at the three gaseous diffusion plants.

Reporting to Bender will be Herbert G. Duggan, who will head a new organization, experimental equipment engineering, designed to serve the special engineering needs of the ORNL research divisions. Layton N. Howell will be acting head of the experimental equipment engineering forces at Y-12, and Loyd V. Wilson will be acting head of the corresponding group at ORNL. Also reporting to Bender will be William F. Ferguson in charge of projects and standards and Charles E. Bettis in charge of engineering analysis.

Reactor research

Bender, who has been associated with the Oak Ridge National Laboratory since 1946, received his bachelor of science degree in chemical engineering from the University of Virginia.

He has served as Director of the General Engineering Division of the Laboratory and has also been responsible for the Atomic Energy Commission's standards program for water-cooled reactor systems. In addition, he has been head of design for the Reactor Division with responsibility for various gas-cooled, liquid metal-cooled and molten salt reactor activities.

(Continued on page 8)

Myer Bender

70 1885

Finis S. Patton Jr.

Used equipment sale set

A "spot-bid" sale of used government-owned office equipment and vehicles is set at the Oak Ridge Gaseous Diffusion Plant. Inspections of equipment may be made from 8:10 a.m. to 4:10 p.m. Monday through Friday (except Monday, September 3), and Saturdays, August 18 and 25.

The material is at the ORGDP Power House area, Building K-722, off State Route 58.

The sale will begin at 9 p.m., September 5.

Rap on race sessions spark lively 'hang-up' discussions

"All of us have prejudices. We only differ in the extent to which we overly realize and express them. Anyone who says he is without prejudice is not open with himself," stated Wilbert Minter, Y-12 Plant Records, and chairman of the Oak Ridge Community Relations Council.

Minter, along with three other Nuclear Division employees, recently got together for a "rap on race" sponsored by the new Human Relations Development Program of CRC. Others involved are Lynn Carpenter, Oak Ridge Gaseous Diffusion Plant; Charles Washington, a Y-12 chemist; and Bob Kernohan, a physicist at Oak Ridge National Laboratory. They took the program to the city employees of Oak Ridge, where they communicated on "hang-ups" on racial matters. The program is accompanied by a film, "Black and White Uptight," narrated by actor Robert Culp and loaned to the committee by Union Carbide.

The group has also presented its "rap" before Oak Ridge patrolmen, and more recently, before school principals in the Oak Ridge area. The principals were highly enthusiastic after the session at school, and will recommend it as a regular feature for students when school reopens next month.

Relates experiences

The CRC hopes to perform the session before other groups on request, and ultimately hopes to adapt it to high school use in the area.

Minter further pointed out to the group, "It is only human that we all at one time had prejudices. But once you realize this, the amount of discrimination should decrease."

Mrs. Carpenter related her "white only" up-bringing in Atlanta, Ga., where the only blacks she met were domestics. "You can't compare a maid to a black chemist," she stated, "but that's what I was doing. The only blacks many Americans see are on the TV screens."

"Are you prejudiced?"

The film, which accompanies the program, pinpoints and draws out reasons behind poor racial relations. The lively movie includes a checklist on "Are you prejudiced?" and an exploration of the ways children are taught to hate. It also answers questions to racist cliches, gives black opinions on separatism versus integration, and takes a look at modern street academies and self-help programs that are improving ghetto-dwellers' lot.

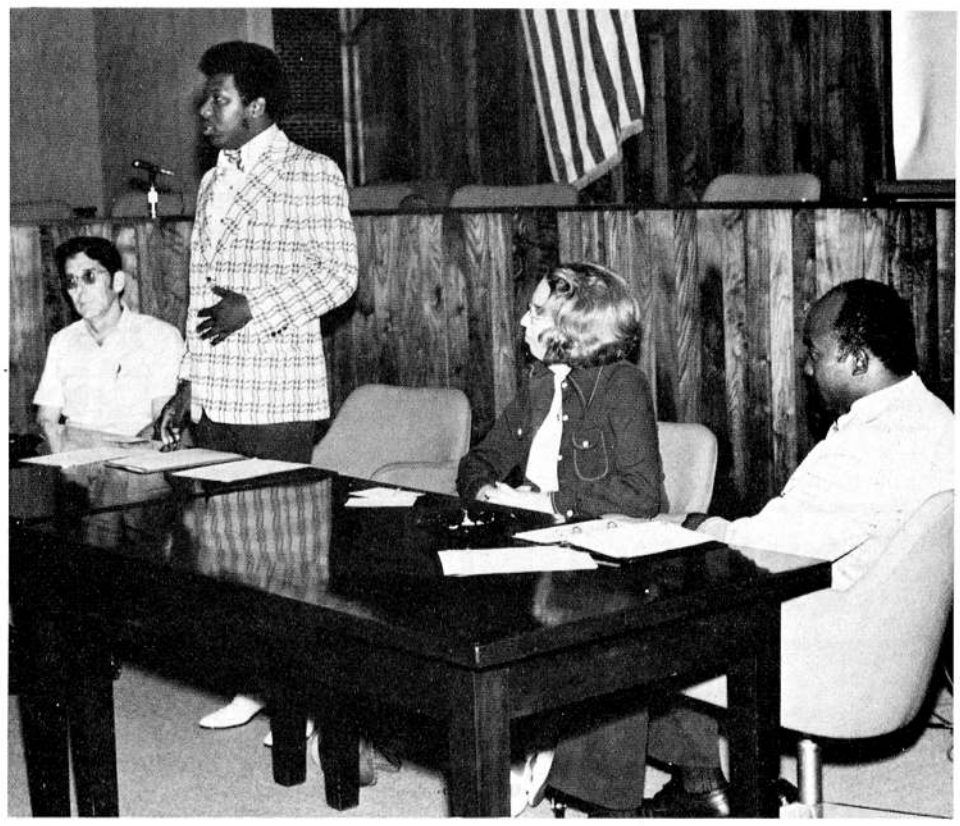
CRC chairman Minter urged participants, "Please try to be real free, because the object is to be productive in our employment world, and to do this we need to be open with each other. Please react - ask questions - tell us about situations you don't understand or that have made you uncomfortable."

Try to relate

Washington pointed out how a white, even trying to be friendly, can turn a black off. "I am tired of people always trying to talk to me about sports, as if that's the only thing they can think of to talk about with me. They will say, 'Hey, wasn't old Willie Mayes good in that last game?' Well, I know who Willie Mayes is but I don't know anything about his batting average. Please talk to me about chemistry," he said.

Kernohan summarized the meeting. "I want to compliment the city employees," he said, "I'm proud to be an Oak Ridger. In the early days, when a bus got stuck, no matter what their rank or salary, everyone got out to push it. And this can still be a friendly community." He concluded by describing the meaning of the phrase "Up-tight" in its new meaning, as being "tense or angry," or in the older meaning, "as being close together," and asked participants to chose the latter.

Minter was recently named to the board of directors of the Tennessee Council on Human Relations to serve a three-year term. He lives at 132 Placer Lane, Oak Ridge, and is a founder of the Atomic City Sportsmen's Club. He is a charter member and founder of the American Records Management Association's local chapter, and is one of four CRC members presently on the interracial Human Relations Development Program to local business and groups.



RAP ON RACE — Nuclear Division employees recently staged a "Rap on Race" with city employees in Oak Ridge. Leading the highly informal session are, from left, Bob Kernohan, Wilbert Minter, chairman of the Community Relations Council, who sponsor the discussions; Lynn Carpenter; and Charles Washington. The human relations development program will be presented to any local group requesting it, Minter states.

NUCLEAR DIVISION NEWS

UNION CARBIDE

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NUCLEAR DIVISION

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Division Retirees

Two Oak Ridge Gaseous Diffusion Plant veterans retired recently. Jack Boyd, Fabrication and Maintenance Division, lives at 979 Sevier Avenue, Harriman.

Charlie T. King, also in fabrication and Maintenance, came with Union Carbide in 1945. He retired to his 115 Clyde Street, Loudon, home.

Y-12 STORE HOURS

Y-12's Company Store is changing its hours slightly. Effective immediately, the store will open on Monday at 11 a.m. and close at 1:30 p.m. Tuesday through Friday, the hours will be 10:30 a.m. to 1:30 p.m. . . . and Monday only 3:15 to 4:15 p.m.

Next Issue

The next issue will be dated September 6. The deadline is August 28.

COMPANY Service

20 25 30

PADUCAH
30 YEARS

Watson

Wynn O. Watson, Paducah security department head, a native of Sevier County, Tenn., came to Oak Ridge in 1943, after serving with the Tennessee Valley Authority. He transferred from Y-12 to Paducah in 1952. He and his wife, Marguerite, live at 3010 Jefferson Avenue, Paducah.

20 YEARS

Ruth J. Miller, E. LeRoy Hall, Glenn C. Vancil, Herman E. Anderson, James R. Champion and Jesse B. Tyner.

ORGDP
25 YEARS

Deforest F. Smith, Burl K. White and William H. Byrd.

20 YEARS

John E. Cantrell, Sidney M. Verble and Darrell A. Hyde.

Labor Day is holiday

Monday, September 3, is an official holiday for all Nuclear Division employees, as the nation celebrates Labor Day. No employee will be required to be at work, unless his presence is required by security or continuous operations.

Four holidays remain on the calendar for 1973 . . . two days each for Thanksgiving and Christmas.

ORNLer's son directs ETBH's new services

Donald G. Catron was recently appointed director of the newly created department of operating services at East Tennessee Baptist Hospital in Knoxville. He is the son of Bert G. Catron, ORNL's Personnel Division.

Dr. Catron took his pre-medical training at The University of Tennessee, Knoxville, and received his M.D. degree from the UT College of Medicine in Memphis. A member of the ETBG medical staff since 1969, Dr. Catron is also president of Anesthesia Consultants of Knoxville. He holds membership in several professional societies and is the author of **The Anesthesiologist Handbook,** which is published by University Park Press.

Dr. Catron worked in the Health Physics Division at ORNL for almost two years.

Dr. Catron and his wife, Elizabeth, have three children. They reside at 2402 Craig Cove Road, Knox County.

Calendar of EVENTS

TECHNICAL
August 17

Reactor Division Seminar: "Broad Planning for Energy Needs," J.C. Bresee, Applied Technology Division, USAEC. Large Conference Room, Building 9201-2, Y-12, 3 p.m.

August 21-23

Chemical Technology Division Information Meeting: Central Auditorium, Building 4500N, 9 a.m.

PADUCAH BOWLING

The Recreation Department and Bowling Committee are taking entries in the men's bowling league for the 73-74 season. Call 335 PAX or contact the executive secretary in C-720 building, E. L. Hall.

Industrial skills offered thru Y-12

Industrial skill training is now being offered to area residents through the Oak Ridge Office of Adult Education. Training is conducted in the Oak Ridge Y-12 Plant by the Training and Technology program which is operated jointly by the Nuclear Division, and Oak Ridge Associated Universities.

Previously, the program has been unable to admit some applicants because of limited Federal funds and specific guidelines for trainee selection. However, beginning with the present training cycle, the program is open to area residents through Oak Ridge Office of Adult Education on a tuition basis. Costs for training are about $360 a month for the six-month training period.

The six training areas are machining, welding, mechanical operations, industrial electricity, physical testing, and electronics. The skill instructors are Union Carbide supervisors and craftsmen. Training is conducted on an eight-hour day, five days a week. Industrial standards of workmanship and behavior are stressed as an integral part of training.

ORAU provides trade-related and remedial instruction in mathematics, science and reading and trainee services such as counseling and job placement. Placement figures show that 95 percent of the 2,500 graduates of TAT have been placed in jobs across the Southeast.

Final selection into the program is made by a committee representing Oak Ridge Associated Universities, the Nuclear Division, and Oak Ridge Office of Adult Education. Applicants are tested to determine suitable performance levels in mathematics and reading. Applicants also tour the training facility and interview with the instructor in their preferred training area.

OBSERVE LANDMARK — Officials from the Atomic Energy Commission and Union Carbide recently attended ceremonies at which the billion dollar mark in toll enrichment services was reached. Since the program began more than four years ago, enriching services have been provided for 23 states and 10 foreign countries. From left are Vincent J. Devito, Goodyear Atomic Corporation; Joe Dykstra, Oak Ridge Gaseous Diffusion Plant; Ray C. Armstrong, Oak Ridge Operations - AEC; Charles A. Keller, ORO-AEC; Robert A. Winkel, ORGDP; and William E. Sykes, Paducah Gaseous Diffusion Plant. The gaseous diffusion plants in Oak Ridge and Paducah are operated for the AEC by Union Carbide Corporation; and the Portsmouth plant is operated by Goodyear.

Adult education sets schedule in Paducah

Registration for Adult Basic Education classes for Paducahans will be held during the month of August at Jetton Senior High School. Preparation for the GED (High School Equivalency Diploma) will be offered. Also, anyone desiring to improve their skills in math, reading, science, social studies and English is invited to register.

Supplies and instruction are free, and any person 16 or over may attend the classes.

Toll enrichment revenues pass billion dollar mark

Revenue from the Atomic Energy Commission's program of uranium enrichment for the nuclear power industry in this country and abroad has passed the billion dollar mark.

The program of "toll" enrichment began January 1, 1969, and is carried out at the Commission's three gaseous diffusion plants in Oak Ridge, Paducah and Portsmouth, Ohio.

The billion dollar mark was passed last month.

Enrichment charges

Under the arrangement, privately licensed firms ship uranium feed material, procured from private sources, to an AEC gaseous diffusion plant for enriching on a fee basis. Customers are charged for the services required to enrich the natural uranium - which contains only seven-tenths of one percent of uranium-235 -- to the desired percentage of uranium-235, usually between two and three percent.

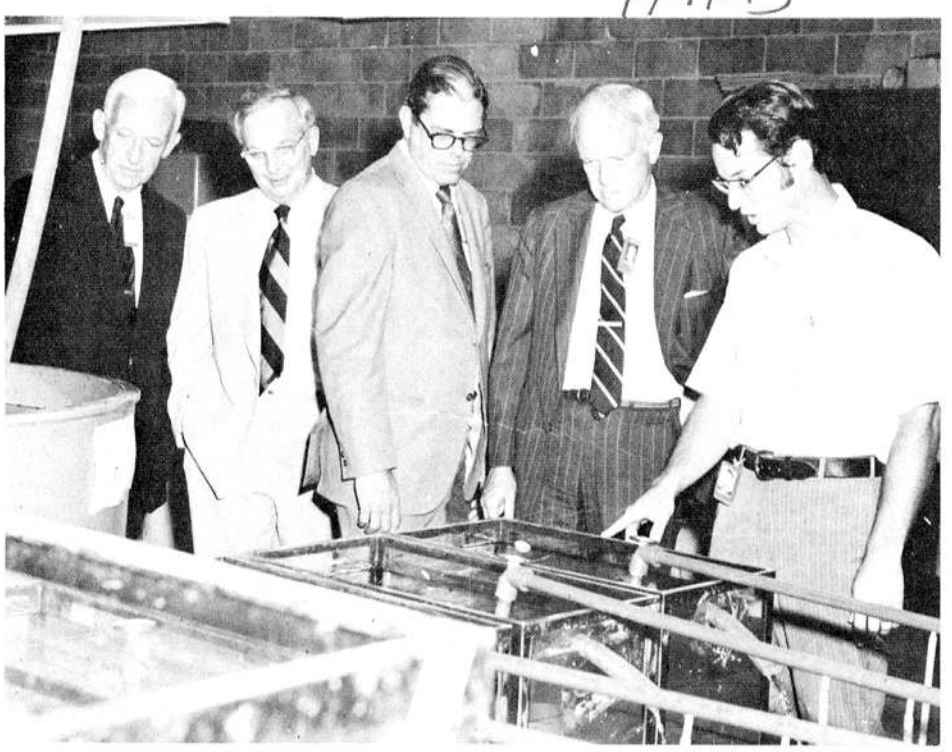
The enriched uranium is then shipped to industrial processors for fabrication into fuel elements for nuclear power plants.

Since the toll enrichment program began four and one-half years ago, enriching services have been provided for nuclear power plants in 23 states and 10 foreign countries.

Demand increases

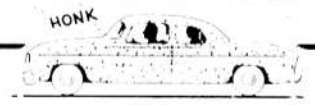
Demand for enrichment services is increasing each year. It is estimated that by 1980, sales from the nation's three gaseous diffusion plants will total approximately one billion dollars a year. Projected revenue under long-term uranium enrichment contracts already executed, some of which extend beyond the year 2000, is estimated on the basis of the current charge for enriching service at approximately $11 billion.

The gaseous diffusion plants in Oak Ridge and Paducah are operated for the AEC by Union Carbide Corporation; and the Portsmouth plant is operated by the Goodyear Atomic Corporation.



TOUR OF AEL — During his recent visit to Oak Ridge, William S. Sneath, President of Union Carbide Corporation, toured the Aquatic Ecology Laboratory at ORNL. Charles C. Coutant, director of the thermal effects program, explained how experiments are conducted at the AEL. From left are Edward J. Boyle, director of safety and security affairs, Union Carbide, New York; Floyd L. Culler, acting director of ORNL; Roger F. Hibbs, president, UCND; Sneath and Coutant.

WANTED



Y-12 PLANT

CAR POOL members from East Village, Oak Ridge, to North Portal, straight day. N.J. Schulman, plant phone 3-5376, home phone Oak Ridge 483-8207.

RIDE from 122 Viking Road, Oak Ridge, to East Portal, straight day. Sarah B. Coram, plant phone 3-5226, home phone Oak Ridge 483-7534.

ORNL

CAR POOL MEMBER from Karns area to East Portal, 8 a.m. shift. John Groover, plant phone 3-6417 or Knoxville 584-2438.

JOIN CAR POOL from East Tennessee Avenue, Oak Ridge, to East Portal, 8 a.m. shift. Doris Henegar, plant phone 3-1252.

JOIN CAR POOL from Burchfield Heights-Solway area to East Portal, either shift. Sigfred Peterson, plant phone 3-1451 or Oak Ridge 483-7609.

CAR POOL MEMBER from Waddell, West Outer or Pennsylvania Avenue area, Oak Ridge to East or North Portal, 8:15 shift. Tom Burnett, plant phone 3-6929 or Oak Ridge 483-1975; or Dick Reed, plant phone 3-1901 or Oak Ridge 483-3458.

LOST — Wire-rimmed glasses near Building 4500N. Bernard J. Sturm, Oak Ridge 482-1466.

COMPANY Service 20 25 30

ORNL
30 YEARS

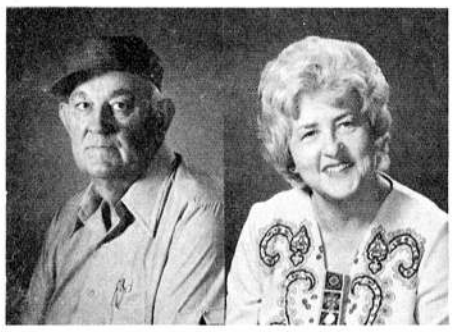
Rimshaw Mrs. Stooksbury

Stanley J. Rimshaw, Isotopes Division, is supervisor of Building 3517. He is originally from Cambridge, Mass. Rimshaw and Hulon, his wife, live at Route 1, Loudon. All three of their children are attending college. Rimshaw enjoys camping, golfing and hiking.

Wilma Stair is secretary to the director of the Physics Division. She started work in the Knoxville Employment Office of Clinton Laboratories. Miss Stair lives at 112 Inn Lane, Oak Ridge.

L.P. Riordan is director of the Laboratory Protection Division. He lives with his wife, Kay, at 99 Oklahoma Ave., Oak Ridge.

Mary Margaret N. Stooksbury is a secretary in the Isotopes Division. She previously worked for Tennessee Eastman at Y-12 and in the catalogue and specification department at ORGDP. Mrs. Stooksbury enjoys sewing and flower gardening, and is a native of the Knoxville area. She and her husband, Schuler, live on Boring Road, Concord.



Massengill Mrs. Jones

August marked 30 years of company service for several ORNLer's.

Juanita L. Ball works in the Laboratory Records Department. She is originally from Pennington Gap, Va. Miss Ball lives in the Farragut Community in Concord.

Vada A. Jones is a secretary in the Plant and Equipment Division. She came to work for Clinton Laboratories in the instrument department. Mrs. Jones' hobby is traveling. She has visited 32 countries and two islands. She and her husband, Roy, live at 1116 Orchid Drive, Knoxville.

Millard W. Massengill is an attendant in the stores department. He previously worked in the guard department. In his spare time Massengill enjoys fishing, hunting and gardening. He and Virginia, his wife, have four daughters. They live at 3729 Reagan Street, Knoxville.

William A. Singleton has worked in the security department during his entire 30 years. His hobbies include traveling, camping and reading. He lives with his wife, Louise, at 106 Timothy Lane, Clinton. They have a son and a daughter.

Fox

Richard J. Fox, Instrumentation and Controls Division, is from Chicago, Ill. Fox, a ham radio operator, enjoys building electric vehicles. He has built an electric bicycle and is presently working on a car. Fox and his wife, Nancy, have five daughters. They live at 945 West Outer Drive, Oak Ridge.

Henson F. Stringfield, Isotopes Division, is the S.S. Accountability representative for ORNL. He and Mattie, his wife, live at 2000 Fenwood Drive, Knoxville.

Y-12 PLANT
30 YEARS

N73-98 N73-99

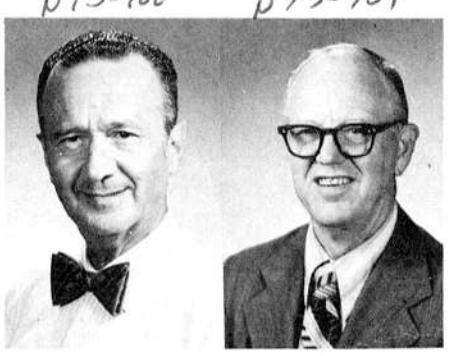
Boatman Boring

Several Y-12ers mark 30-year anniversaries the latter part of August.

Walter S. Boatman Sr., a native of Martel, is in research services. He attended Hiwassee College, and worked at C. M. McClung's and Miller's before coming to Y-12. He lives at Route 5, Lenoir City.

Thomas J. Boring, also in research services, was born in Etowah. He served in the Army from 1944 until 1946, and lives at Route 17, Knoxville.

N73-100 N73-101

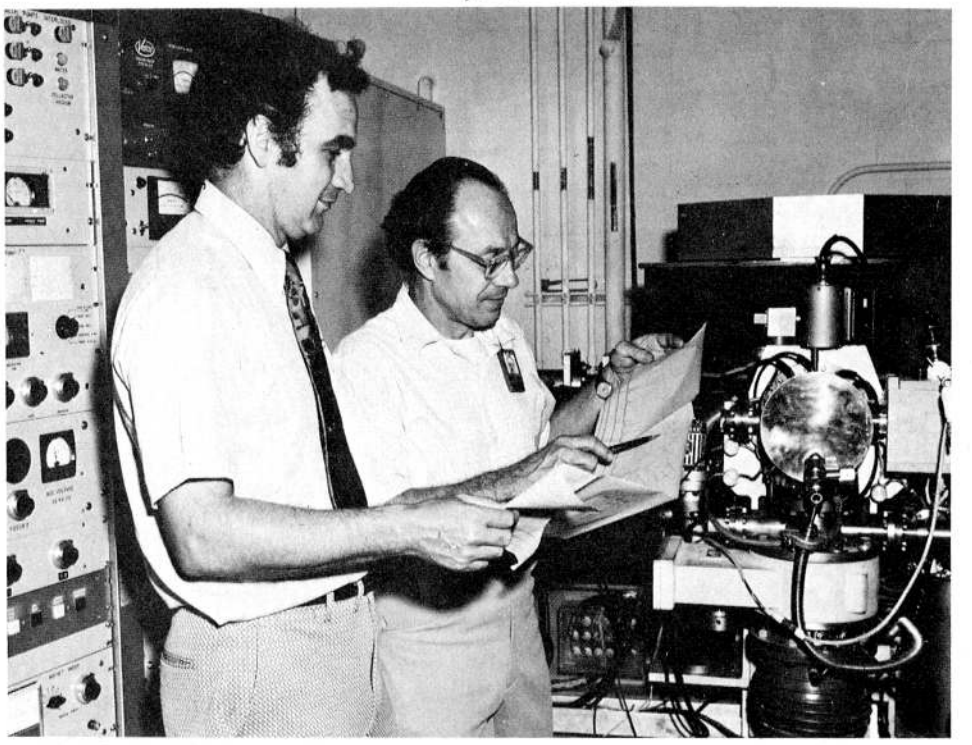


Carey Hilton

Milton Carey, a native of New York, transferred from ORGDP in 1961. He worked with Ford, Bacon and Davis and the Tennessee Valley Authority before joining Union Carbide. He and his wife, Ruth, live at 137 South Purdue Avenue, Oak Ridge. He is in Y-12's Maintenance Division.

Merle B. Hilton, mechanical design engineering, is a native of Bridgewater, S.D. He attended The University of Tennessee and worked with Fulton-Sylphon Company before coming to Y-12. He lives at 5006 Sims Road, Knoxville.

N73-95



MORE VIKING PARTICIPANTS — More Oak Ridge National Laboratory scientists will wear Viking mission pins, as Joel A. Carter, left, and W.T. Rainey Jr., are presented pins for their contributions to the 1975 mission to Mars.

Carter and Rainey awarded Viking pins for GCMS work

The Viking mission to Mars, scheduled for launch in August, 1975, will consist of two orbiters and two landers. One of the instruments in the lander instrument package is a gas chromatograph-mass spectrometer, GCMS, which will analyze the Mars atmosphere and will also heat a soil sample, separate evolved compounds in the chromatograph column and then identify them with the mass spectrometer. This is intended to establish whether or not organic compounds, and therefore potential life, exist on the Martian surface. Mars will be nearly opposite Earth in orbit when the landers put down after a 10-month cruise, and a radio signal will have a roundtrip time of about 40 minutes. Thus, the instrument operations have to be independent of ground command, except for initiation of sequences.

The GCMS is being built by Litton Systems, Inc. A. E. "Gus" Cameron, retired ORNL scientist, is a consultant to Litton on the GCMS.

Late in the design and construction of the instrument it was found that some classes of organic compounds were not transmitted through the gas chromatograph. The suspicion was that some materials of construction in the valves were reacting with these organic materials. W. T. Rainey Jr., ORNL's spectroscopy group in the Analytical Chemistry Division, undertook an investigation at the behest of the Viking Project office. He was successful in proving which materials were non-reactive and what the reactions might be with some classes of organic compounds. The experiments led to a change in routing of gas flow and to a change in some materials of construction in the valves.

North Carolina natives

Rainey and Joel A. Carter were presented Viking pins for their contributions to the project.

Rainey, a native of Fayetteville, N.C., attended Davidson College and holds a Ph.D. in chemistry from the University of North Carolina. He was an instructor at Davidson and a professor at Clemson University. He also did chemical warfare research at the U.S. Naval Research Laboratory, before coming to ORNL in 1956. He served in the Navy during World War II as an electronic technician.

He and his family live at 112 Dana Drive, Oak Ridge.

Joel A. Carter is also a native of North Carolina. He completed his undergraduate studies at Lees-McRae College and King College and was awarded his M.S. and Ph.D. degrees in chemistry from The University of Tennessee under the Union Carbide Educational Assistance Program.

Since joining the Analytical Chemistry Division, he has worked in the fields of mass spectrometry and emission spectroscopy; and is presently in charge of the mass and emission spectrometry department.

Carter lives with his family at 109 Euclid Circle, Oak Ridge.

N73-97 N73-102

Miss Miller Roddy

Katherine Miller, building, grounds and maintenance department, is a native of Clinton, where she still lives. She worked in her parents' grocery in Clinton and with the National Youth Administration, before coming to Y-12 in mid-1943.

Carl H. Roddy, plant records, is a native of Tracy City, Tenn. He worked with Western Auto, TVA and Sears before coming to Y-12. He and his wife, Lucretia, live at 710 Forest View Road, Knoxville.

UNITED FUND DRIVE

October will be United Fund month for Nuclear Division employees. It's our one-time-a-year to contribute to the well-being of our respective communities.

B. I. V. Bailey named to O R G D P safety post

Burkett I. V. Bailey has been named a safety supervisor at the Oak Ridge Gaseous Diffusion Plant. The 26-year Carbide veteran has worked at ORNL as a laboratory technician and as assistant recreation director; and at Y-12 as a chemical operator, chemical foreman and safety engineer.

He is a native of Etowah, and attended the University of the South, the University of Oklahoma, and holds a B.S. degree from The University of Tennessee.

Married to the former Willie R. Land, Bailey lives at Route 4, Irwin Road, Powell. They have two children, Ronald V., in post-graduate work at George Washington University; and Larry, a sophomore at East Tennessee State University.

In his spare time Bailey enjoys golf, fishing, softball, bowling and camping.

BEST TECHNICAL PAPER — Henry Penland, Reactor Division, won first place for the best technical paper presented at the national meeting of the American Society of Certified Engineering Technicians. The paper, "Fuel Failure Mockup — A Sodium Facility for Testing Simulated Nuclear Fuel Assemblies," was co-authored by Paul Gnadt and Glen E. Mills.

RETIRED ORNL MACHINIST

Francis L. Grinstead died at Oak Ridge Hospital July 27. He had been ill for several years. Mr. Grinstead worked as a machinist at ORNL for 18 years before his retirement in 1968. Survivors include his wife, Mrs. Viva McHaney Grinstead, 106 Porter Road, Oak Ridge; a daughter; a son; two sisters; a brother; nine grandchildren and six great grandchildren.

Four appointments made in Computer Sciences Division

Four appointments have been made to the newly-established Computer Sciences Division of the Nuclear Division. The appointments include:

Charles L. Allen, Knoxville, Manager of Operations.

Alfred A. Brooks, Oak Ridge, Manager of Computing Applications.

Joseph G. Sullivan, Oak Ridge, Manager of Computer Systems Support.

Robert A. Tannert, Oak Ridge, Manager of Management Services.

The four men will report to Harvey P. Carter, Manager of Computer Sciences.

Allen, a native of Sevierville, Tenn., received his B.S. degree in physics and mathematics from Carson-Newman College. He served for five years in the U.S. Air Force, joining Union Carbide in 1955. He, his wife and three children live at 6732 Ridgerock Lane, Knoxville.

In his new position, Allen will be responsible for computer operations and associated activities.

Brooks, who has been with Union Carbide since 1956, received his Ph.D. degree from Ohio State University in 1950. He worked at the SAM Laboratories at Columbia University from 1943-1945 and the Tennessee Eastman Corporation at Y-12 from 1945-1946. He was named an assistant director of the Mathematics Division at Oak Ridge National Laboratory in 1972. He and his wife, Arlene, live at 100 Wiltshire, Oak Ridge. They have two children.

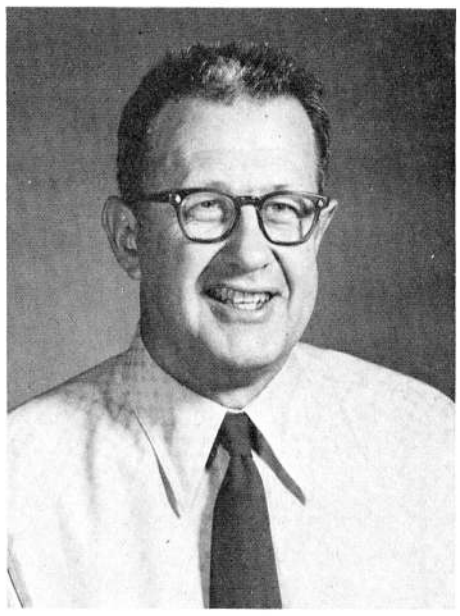
Brooks will have primary responsibility for analysis and programming services in support of programmatic requirements of the Computer Sciences Division.

In ORNL math

Sullivan received his B. S. in mathematics from The University of Tennessee and has been associated with the Nuclear Division since 1956. He was an assistant director of the Mathematics Division at Oak Ridge National Laboratory prior to being appointed to his new position. He and his wife, Irene, and their two sons live at 1014 West Outer Drive, Oak Ridge.

Sullivan's responsibilities will include computer operating systems, hardware and software evaluation, and other administrative functions.

Charles L. Allen



Alfred A. Brooks

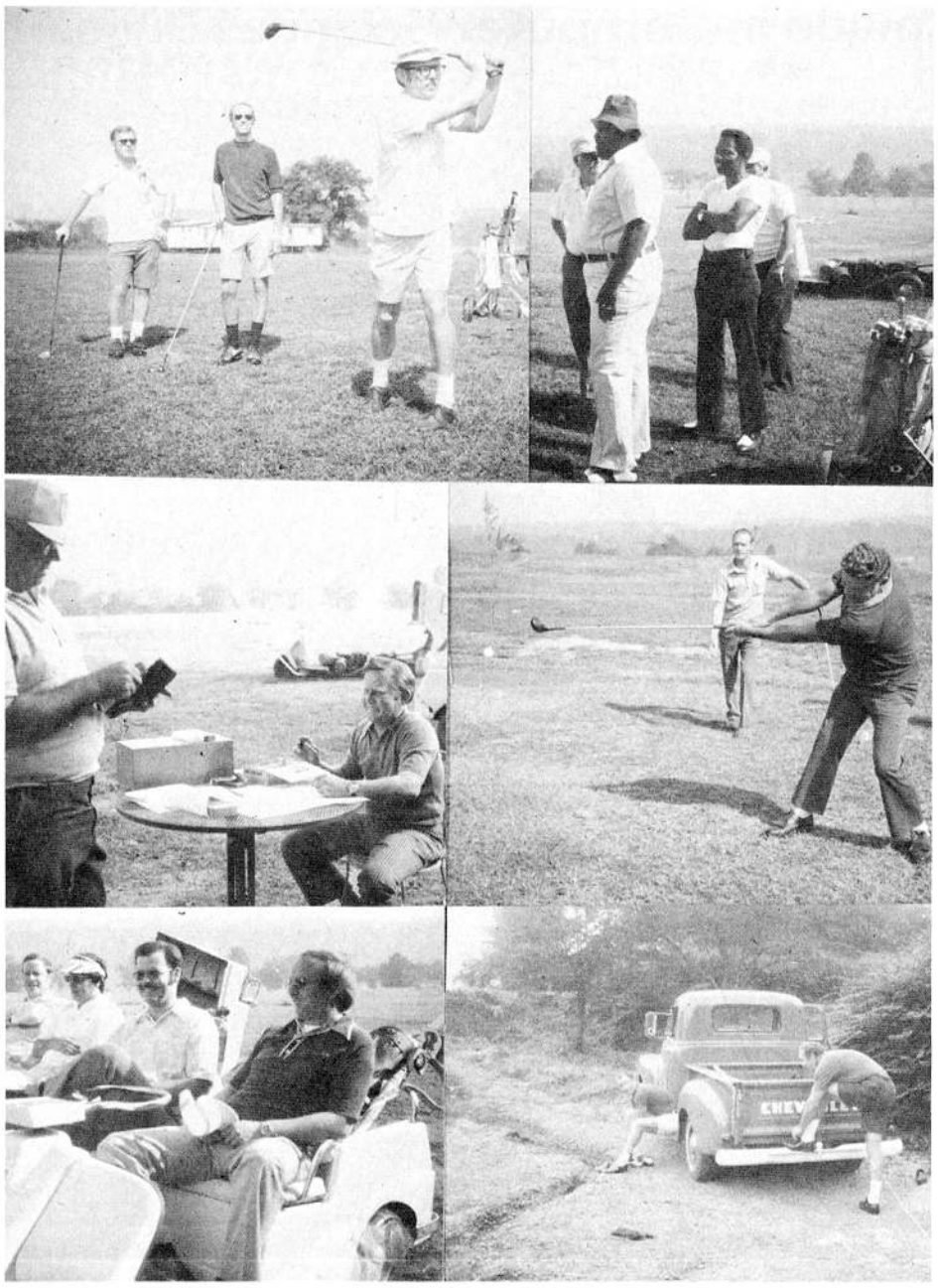
Joseph G. Sullivan

Robert A. Tannert

Tannert has been with Union Carbide since 1968. He has been superintendent of data systems at the Oak Ridge Y-12 Plant. A native of Houston, Tex., he received his bachelor's degree from Stephen Austin State University, and his master's degree from Louisiana State University. He and his wife, Jo Ann, live at 109 Morgan Rd., Oak Ridge. They have three children.

Tannert will be responsible for analysis and programming services associated with management, production control and related areas.

DEVELOPMENT AWARD — The 1973 Industrial Professional Development Award plaque was awarded the Nuclear Division recently by the National Society of Professional Engineers. Citing "its record of advancement and improvement of the engineering profession through development and use of forward-looking engineering employment practices in accordance with professional standards," NSPE presented the award to Fred L. Shanklin, Union Carbide regional vice-president, mid-west. The award was brought home recently and is presented by Roger F. Hibbs, President of the Nuclear Division, to W. Dale Jones, Engineering Division. From left are Leroy H. Jackson, Atomic Energy Commission-Oak Ridge Operations; Paul R. Vanstrum, vice president of the Nuclear Division; Jones, Hibbs, and George Jasny, Manager of Engineering for the Nuclear Division.



ORGDP–Y-12 GOLFERS — A roving photographer took these shots at Y-12's and ORGDP's recent tournaments. The Y-12 match was played at Southwest Point; ORGDP at Cedar Hills.

RECREATIONOTES

TUESDAY VOLLEYBALL

If you're single and like the outdoors, this may be just your thing. Every Tuesday a group of Oak Ridge area adult singles gather for volleyball from 7 to 9 p.m. in the parking lot of the First United Presbyterian Church. However, the activities are not limited to volleyball alone. Other summer functions include waterskiing, swimming, camping at nearby lakes, and an occasional party at someone's house. There is no membership fee, requirement of meetings, etc. Probably the best way to get acquainted is just to show up for a volleyball session any Tuesday night. (The average age span is 19-30).

Similar interest groups have evolved from the Tuesday group to include bridge, hiking, tennis and even a Bluegrass band. If you're single, and looking for something to do in the Oak Ridge area, check out the Tuesday volleyball group.

CARBIDE GOLF

The Oak Ridge Gaseous Diffusion Plant tournament is still set at Gatlinburg, September 8. Green fees are $7 and golf carts are $7. An entry form appeared in the last issue of **Nuclear Division News.** Oak Ridge National Laboratory golfers will compete August 25 at Southwest Point, and Y-12er will go at it on the same day at Cedar Hills, for the final tournament of the year.

The Cozart-Graham team leads the South Hills Golf League, a full six points ahead of the Sise-Boyd team.

The Patrick-Buffington team still holds the lead over Schilling and Moon in Southwest Point league play.

ORGDP GOLF

Frank Copeland and Bob Nier tied for the low score in the ORGDP golf tournament, recently played at Cedar Hills. J.F. Mooney counted an 80 to take handicap honors in flight one, while Wes Hightower's 78, and Ed Powell's 76 netted ties to honors also. Charlie Henley counted 12 pars.

Flight two fell into the hands of Ed Ellis with an 80; while Walt Wendelkowski and W.G.S. Fort fired 85's.

Handicap honors went to A.H. Marshall, 89; and John Chosten, 84.

Earl Cottongim and Randy Summers counted six pars.

Division three went to J.B. Wilhot, with a 91, and Donald R. Lawrence, with a 92.

Bill Ewing's 97 was low handicap score, and J. M. Friend's 107, R. L. Braden's 103, and John Shelton's 100 all tied for second handicap score.

S. C. Ryder parred four holes; N. Teasley and Jim Crawford counted three.

WOMEN BOWLERS MEET

An organizational meeting for the ORNL Women's Bowling League will be held August 22 at 5 p.m. at Ark Bowling Lanes in Oak Ridge. Anyone interested in bowling during the coming season is invited to attend.

ADDRESS CHANGE

Have you moved? Make sure your personnel records are up-to-date. File a change-of-address form when your address changes.

CARBIDE SOFTBALL

With rains delaying the schedule still, the Softball League finds Tom's Gizzards and the Snakes locked in deadly struggle for first place in the 21-team league. They have suffered only one loss each, while the Colts, coming up in third place, have taken two losses.

League standings follow:

Team	W	L
Tom's Gizzards	13	1
Snakes	13	1
Colts	10	2
All Stars	13	3
Red Barons	12	4
Yellow Jackets	9	4
Raiders II	9	5
Gashouse Gang	9	6
Supersonics	9	6
Losers	7	6
Computes	8	8
Hornets	8	9
Ecology	5	9
Centaurs	5	9
Buccaneers	5	11
K-25 Mech's	5	12
Bio Rejects	3	9
Playmakers	3	11
Al's Pals	3	12
Gene's Gang	2	10
Bombers	2	15

SKEET LEAGUE

Will Weathersby, Y-12, capped July's Skeet League by firing a perfect 50.000. ORNL's J. Basler came in second with 49.243 and Y-12er J. Rhew came in third with 48.723.

Under penalty from previous winnings were Vern Raaen and Bert Searles.

A SHIFT PICNIC

Y-12's A Shift braved threatening weather recently to stage a successful picnic at Clark Center Recreation Park. A total of 175 attended, with prizes going to Frank Moore, L.N. Hendrickson, A.F. Tucker, F.W. Farley, Wayne Williams, Dennis Grooms, J.R. Robinette, Chester Edwards, L.M. Hendrickson, Joe Tackett and Steve Porter Jr.

ORNL GOLF

Two under-par scores at Wallace Hills head-lined the news at ORNL's recent tournament, as Henry Tuck aced a 68; Ward Foster carded a 71 to take first and second place in the August 4 race.

Handicap lows went to Charlie Coley and Don Dice with scores of 76 and 75, respectively. K. C. Lannom counted 14 pars and Herb Buffington came in with 13.

Division two went to G. C. Cain with a 76, followed by Frank Hammerling, with an 80.

Jim White led handicappers with a 78; Larry Gipson came in with an 82.

Nine pars were picked up by Jim Clem, John Dougherty and John Waggoner.

Flight three fell into the hands of John Clinard and Ralph Owens with scores of 85 and 88. Tom Kress' 88 and Frank O'Donnell's 93 led the handicap scoring.

Allen Petree and R. W. Tucker counted four pars.

Y-12 GOLF

John Baker took the Southwest Point tournament recently, firing a one-over-par 73 on the lakeside greens near Kingston. Benny Crass came out in second place with a 75. Division one handicap lows went to Tom Smith, 77; and Jim Vance, 75.

Bud Leete tallied 14 pars; as Emerson Henck, Danny Rowan, R.C. Sharp, Bill Butturini and Joe Pryson all counted 10.

In the second flight, Jim White carded an 82; Max Glandon an 85 to lead Y-12ers in the second-best division. Joe Sherrod capped handicap low of 85; while John Sewell turned in an 89 score. Larry Jones parred six holes; while Phil Breman, Joel Jeter, Mark Simmons and Richard Neal counted five.

The third division went to Coye Blankenship, with an 85; and Curt Ridings came up with a 91.

Bill Snyder and Paul Patrick scored a 94 and 96 to handle handicap honors.

O.C. Williard and Edison McConnell turned in four pars.

B SHIFT PICNIC — Y-12's B Shift chose Cumberland State Park for a recent picnic. The men played golf, while the women and children swam, loafed and hiked around the park.

The Medicine Chest

(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.

QUESTION: "Are there any health advantages to using ocean salt over regular table salt? Would it be less harmful to a person with hypertension?"

ANSWER: Shakespeare said in **Romeo & Juliet**:

"What's in a name?
That which we call a rose
By any other name
would smell as sweet"

The same can be said about salt, but it is the action and not the smell that concerns us. Sodium in the salt holds water in the body and adversely affects high blood pressure. The sodium chloride content of ocean salt is probably almost identical with regular table salt. The presence of other compounds in ocean salt would in no way make it safe for use by patients with hypertension.

QUESTION: "My wife and I have had all the children we need (and want). Would you recommend a vasectomy (for me) or tubular ligation for her?"

ANSWER: If you and your wife are sure that you want no more children and have given careful consideration to the implications of a sterilization procedure, then go ahead. You should remember that either of these procedures is permanent. Attempts to reunite a tied tube or a cut vas deferens are rarely successful. Some men who are insecure about their masculinity may blame a decline in libido onto their vasectomies, even though their physicians reassure them over and over again that there is no organic relationship. A few man and women lose restraint after being sterilized and their subsequent promiscuity destroys their marriages. Whatever you do, don't have a sterilization procedure to "save" a marriage. It almost never works! If neither of you feels there is any worry on any of these points, it is probably safe to proceed. A vasectomy is much easier to perform than a tubal ligation.

QUESTION: "Would you discuss the use of estrogen hormones by women going through the menopause - also the advisability of their use by women who are either cancer patients or ones who are past five years with no recurrences?"

ANSWER: The use of estrogen replacement therapy (ERT) after menopause is still controversial. A great many women say they feel much better with it. This vague improvement in "wellbeing" cannot be quantified and subjected to scientific study. If a woman feels much better, then the important consideration is, "Is it hazardous?" Even that question is hard to answer. There is no doubt that it may cause mild nausea, breast tenderness, spotting and fluid retention. Uterine fibroids may increase in size. While there is no good evidence that estrogens cause cancer of the breast, they seem to support and stimulate an existing breast cancer. Diethylstilbestrol, a synthetic estrogen compound and not the same as a natural estrogen, has been implicated in cancer of the uterus. It is clear that any woman on ERT should have a careful breast and pelvic examination with a Pap test at least every six months. They should learn how to examine their own breasts and do it carefully at least once a month.

It is generally agreed that women who have had a breast or genital cancer should not take estrogens, regardless of how long they have been cancer free. A few specialists extend this prohibition to women with a family history of breast or uterine cancer.

The role of ERT in preventing or treating osteoporosis (thinning or decalcification of the bones), is unclear. The short-term effects are often impressive, but some experts are unconvinced that ERT has any long-range effect on aging in female bones. Likewise, the role of ERT in preventing coronary heart disease in postmenopausal women has not been proven. There is circumstantial evidence since coronary disease before the menopause is relatively rare. It becomes almost as common in women as in men fifteen to twenty years after the menopause but, of course, one has to remember that many other aging phenomena are also occurring.

In summary, ERT has a definite place in the physician's armamentarium against the many complaints of middle-aged women allegedly due to "the change of life." It obviously must be used with care and intelligence.

Mrs. Bingham named head nurse at ORAU

Carol Ann Bingham has been named the new supervisor of nurses in the Oak Ridge Associated Universities Medical Division. She is the wife of Hans G. Bingham, a nuclear physicist at Oak Ridge National Laboratory.

Mrs. Bingham, a native of Lancaster, Penn., has a bachelor's degree and a nursing diploma from the University of Pennsylvania and its School of Nursing. She worked as a staff nurse, assistant head nurse and head nurse at the Hospital of the University of Pennsylvania prior to coming to Oak Ridge in 1972.

LUMBEES VISIT ORNL — A group consisting of high school and college students from the Lumbee Regional Development Association in Pembroke, N.C., visited facilities of the Oak Ridge National Laboratory recently. Seated from left, are Nita V. Chavis, Phyllis A. Locklear, Darlene Holmes and Georgia C. Chavis, standing, first row, Spencer R. Sampson, Pam Baker, Shirlene Hunt, Ruth B. Bettis (director), and Harold B. Locklear; second row, James M. Chavis, Freddy Locklear, Keith Locklear and Harry J. Locklear.

Lumbee indians tour facilities

A group of Indian students and administrators from the Lumbee Regional Development Association in Pembroke, N.C., visited Oak Ridge National Laboratory recently.

The Lumbee Regional Development Association is a non-profit organization chartered by the state of North Carolina, which was organized to analyze and develop solutions for the health, educational, economic and general welfare problems of rural and urban Indians in Robeson County, N.C. Ruth Bettis, research and planning coordinator for LRDA accompanied the group.

The group consisted of both high school and college students. The college students attend Pembroke State University, the first four-year state-supported Indian college.

The visit to ORNL was coordinated by Ronald Hart, Biology Division, and Earl Nash, affirmative action coordinator. The agenda included tours of the Graphite Reactor, High Flux Isotope Reactor and Hot Cells facility at ORNL. The group also visited the Biology Division, located in the Y-12 Plant area.

The purpose of the Lumbees' visit to ORNL was to expose the students to a scientific community and encourage them to pursue studies in the field of science.

DID YOU KNOW?

Over 470 of your fellow employees were served by United Way agencies in Knox County last year. Among the agencies utilized by Carbiders and their families were: the American Red Cross, Boy Scouts, Boys' Club - Vestal, Child and Family Services, Dale Avenue Settlement House, East Tennessee Children's Rehabilitation Center, Girls Club, Knox County Association for Retarded Children, Nursery Schools, Helen Ross McNabb Center, Salvation Army, Travelers Aid Society, Y.M.C.A. - Central and Westside Y.W.C.A. - Central and Phyllis Wheatley.

THANKS TO YOU, IT'S WORKING!

CO-OP CONFERENCES — Co-Op advisor Odell Compton advises students from Southern University and A&M College. Seated beside Compton are students from the Baton Rouge college, Karen Burgess, left; and Gwendlyn Muse, right. Standing, from left, are Walton Richardson, Michael Dobard and Joyce Nelson. All of the students are under the Co-Op program in the Nuclear Division.

Paducah's maintenance division names Anderson and Hunt to new positions

Anderson Hunt

Two promotions are announced in the Fabrication and Maintenance Division at the Paducah Gaseous Diffusion Plant. Herman E. Anderson has been named a process maintenance foreman, and Roger F. Hunt a maintenance foreman.

A native of Warren County, Ky., Anderson attended Western Kentucky State University Vocational School before joining Union Carbide in 1953. He had worked previously with the Holley Carburetor Company in Bowling Green, and had served in the U.S. Air Force.

Anderson and his wife, Betty, live at Route 4, Paducah.

Roger F. Hunt, a native of McCracken County, joined Union Carbide in 1953 also. He operated an auto repair service in Melber, before coming to Paducah. A graduate of Lone Oak High School, he also attended Tilghman Area Vocational School and Paducah Community College. He served with the U.S. Army in the South Pacific.

Hunt recently assisted with the training of disadvantaged people in the Functional Industrial Training School.

He and his wife Betty live on Bleich Road, Paducah. They have two children, Kathy and James.

PATENTS *Granted*

To Henry Inouye and Chain T. Liu, ORNL, for "Novel Platinum-Phodium-Tungsten Alloy."

Engineering divisions' functions

(Continued from page 1)

James A. Parsons, in charge of general engineering, which is comprised of engineering mechanics, civil and architectural, and environmental engineering functions. Reporting to him will be William E. Weathersby in charge of general engineering at Y-12; D. S. "Nick" Pesce, in charge of general engineering at ORGDP; and William R. Winsbro in charge of general engineering at ORNL. Winsbro will also be responsible for a three-site environmental engineering group under Ernest E. Choat.

A. J. "Jack" Thompson, in charge of instrument and electrical engineering. The electrical engineering superintendents reporting to Thompson will be Walter A. Bogdanowicz at ORGDP; H. Gay Smith at Y-12; James A. Steed at ORNL. The instrument engineering superintendents reporting to Thompson will be J. Lynn Noey at Y-12; B. B. Bell at ORGDP and Bernard Lieberman at ORNL.

Myrin I. Lundin in charge of mechanical engineering at Y-12 and ORGDP. Reporting to him will be Leon L. Parris responsible for mechanical design, Dewey L. Foulk responsible for manufacturing engineering; Ernest R. Watkins responsible for tool engineering at Y-12; and Hugh C. Beeson responsible for mechanical engineering at ORGDP.

Also reporting to Patton will be the major engineering program managers at ORGDP: James W. Hodges, responsible for centrifuge plant engineering studies; Samuel J. Senatore responsible for gaseous diffusion engineering studies; Donald R. Kellogg responsible for CIP-CUP engineering design; and Loyd B. Jones in charge of cost engineering.

William K. Whitson Jr. continues as the engineering manager responsible for engineering services to Y-12 and for support engineering at Y-12 and ORGDP. Reporting to Whitson will be J. Leo Waters in charge of facilities engineering at Y-12; Rod D. Shaffer in charge of facilities engineering at ORGDP; William J. Nichol Jr., in charge of construction engineering; and Harold D. Culpepper in charge of procurement coordination.

Since 1958, Bender has been involved in the development of concrete vessel technology for nuclear applications, has served as the Atomic Energy Commission's representative in various information exchange activities with European countries concerning pressure vessel technology in nuclear applications, and has been a member of the AEC's Advisory Committee on Reactor Safeguards.

A licensed professional engineer, he is a member of both the National and Tennessee Societies of Professional Engineers, the American Society of Mechanical Engineers and the American Concrete Institute.

Patton, a native of Memphis, Tenn., received his bachelor's and master's degrees in chemical engineering from Louisiana State University and has done further graduate work at The University of Tennessee.

Co-authors work

He joined Union Carbide Corporation in 1950 as a process design engineer at the Oak Ridge Y-12 Plant. He served successively as engineering design supervisor, superintendent of design engineering departments at the Y-12 Plant, and most recently has been superintendent of the Engineering Division at the Oak Ridge Gaseous Diffusion Plant.

He is a licensed professional engineer, and a member of both the National and Tennessee Societies of Professional Engineers. In addition, Patton is a senior member of the American Chemical Society. He was a United States delegate of the 1958 Conference on the Peaceful Uses of Atomic Energy in Geneva, Switzerland.

Patton is the co-author of the book, "Enriched Uranium Processing," which is considered an authoritative text in this field.

Reporting to Patton will be the following design discipline superintendents:

A. Paul Huber continues as manager of the capacity expansion management team charged with coordinating the CIP, CUP, and plant test programs at the three gaseous diffusion plants.

QUESTION BOX

(Continued from page 1)

who were presenting professional papers were featured in the newspaper, compared to a total of 14 for the other Nuclear Division facilities. The problem is that while almost all of the work at the Laboratory is unclassified, the nature of the work at the other facilities makes it extremely difficult for staff members to be "literarily productive."

QUESTION: I travel some in my work for Union Carbide. Does the Company provide any form of travel insurance in case of an accident, such as a plane crash, etc.?

ANSWER: Particularly where air travel is involved, additional insurance is provided when salaried employees travel on official Company business. Information about the kind of insurance protection may be obtained from your Industrial Relations or Personnel Division, or from the Travel Office at the time you pick up your approved travel papers, tickets, etc.

QUESTION: What plans does Carbide have with respect to construction of bike paths connecting the three plants with the bike paths proposed by the City?

ANSWER: We have none.

QUESTION: How long has the present shift premium for shift workers been in effect? I know it has been the same amount for many years and cannot understand why it has not been improved. Considering the sacrifices one makes regarding his family activities, and, sometimes, health, I am disappointed that the company has fallen behind in this category.

ANSWER: The present shift premium rates were established in late 1961 and early 1962. Area shift premium pay practices are surveyed periodically to determine the comparability of our premiums. Although the last improvement was a long time ago, our shift premium rates still compare favorably with others being paid in our area.

Magnuson son leaves for study in Turkey

Phillip Magnuson, son of Dale W. Magnuson, critical experiments facility, left recently for Turkey. He is participating in the American Field Service, International Scholarships, Americans Abroad School Program, and will complete a year of school in Izmir, Turkey.

Phillip

He is undergoing intensive language orientation in Istanbul at present, and at the end of this month will join his "adopted" family, the Burhan Yanasans. He will attend the Ozel Turk Koleji, a private school in Izmir, with his "new" brothers, Ajlan and Serdar.

Phillip completed his junior year at Bearden High School, Knoxville, where he was a member of the varsity football team and a participant in their track program. He is a member of the National Honor Society, Key Club and was chairman of the Mathematics Division of Clue.

Another Magnuson off-spring, daughter Carol, brought honors home recently, graduating from The University of Tennessee with high honors, with a degree in microbiology. She is a member of Phi Kappa Phi and Phi Beta Kappa, national honor societies, and works in the laboratory at St. Mary's Hospital, Knoxville.

Dwight, another son, recently received his master's degree in nuclear engineering from the University of Virginia. He has joined the Tennessee Valley Authority in Knoxville.

The Magnusons live at 11 Brookview Lane, Knoxville.

PADUCAH SWIMMING

Two more Saturdays remain on Paducah's swimming program at Noble Park. Families of Carbiders and employees may swim free from 9 until noon this Saturday and next. There is no charge for any Paducah employee, so bring your family and come on out. That's two more Saturdays, August 18 and 25.

UNION CARBIDE
UNION CARBIDE CORPORATION
NUCLEAR DIVISION
P. O. BOX Y, OAK RIDGE, TENNESSEE 37830

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