

NAVIGATIONAL AIDS ON THIS OIL AND GAS platform in the Gulf of Mexico are being powered by a nuclear generator. The generator is the first to provide atomic power for such a platform. The radiation shield for the generator was fabricated in Y-12.

Shield For 'At-Sea' Buoy Nuclear Generator Made Here

The first atomic generator to provide power for navigational aids on an offshore oil and gas platform began unattended operation on June 21 in the Gulf of Mexico. The operation of the generator, partially fabricated in Oak Ridge, represents the first commercial use of such a device.

Installation of the generator marks the beginning of a two-year cooperative program provided for in a no-cost research and development contract awarded by the Atomic Energy Commission's Oak Ridge Operations to the Phillips Oil Company, Bartlesville, Oklahoma.

The platform is owned jointly by Phillips and Kerr-McGhee Oil Company, Oklahoma City, Oklahoma. Phillips' participation is in behalf of the Offshore Operators Committee, a trade association representing all offshore oil and gas producers operating in the Gulf of Mexico.

Shield Made Here

Y-12 fabricated an integral part of the generator — a three and one-fourth inch thick radiation shield of depleted uranium weighing some 3,500 pounds.

Designated as SNAP-7F, the 60-watt generator was installed in the platform located in the Gulf some 81 miles southwest of Morgan City, Louisiana. A health physicist with AEC's Oak Ridge Operations, Howard V. Hecker, assisted with installation of the unit.

Measuring some 22 inches in diameter and 34 inches high, the nuclear generator is installed in one of four tubular steel legs of

the platform. It is used to power continuously two flashing light beacons and an electronic fog-horn.

No Servicing Required

Electrical power for the navigational aids was previously supplied by diesel generators. The five-year design life of the nuclear generator far exceeds that currently available with diesel generators and battery systems generally used on such platforms, both of which require frequent servicing. Since oil and gas platforms are being constructed farther and farther into the Gulf, there is an increasing need for long-lived unattended sources of electrical power.

The generator produces electrical power through the radioactive decay of its fuel — 14 pounds of strontium titanate, a highly insoluble compound. Heat from the decay of the fuel is converted directly into electricity through 120 pairs of thermocouples which surround the fuel.

The two-year program between the AEC and Phillips is expected to demonstrate the routine use of SNAP (Systems for Nuclear Auxiliary Power) generators in gas and oil platforms. Such generators, capable of continuous operation in excess of five years and in many instances of economic competitiveness with existing power sources, are now under development by the AEC. The data obtained from the government-industry cooperative venture will be made available to all members of the offshore oil and gas industry.

Carbiders Get Nearly \$15 Million As General Savings Plan Is Paid June 30

Union Carbide Corporation employees were some \$14,845,878 richer last week as the General Savings Plan made its cash contribution. A total of 10,325 employees participated in the plan from the three Nuclear Division plants in Oak Ridge. They saved \$11,037,099 of their own money through this plan during the past two years. The balance of \$3,808,779 represents the amount the company contributed, Fund surplus and earned interest.

(Y-12ers shared some \$5,800,000 of the \$14,845,878 total.)

Under the plan, employees set aside up to seven and one-half per cent of their earnings, up to \$83 a month, and the company contributes 10, 20 or 30 per cent of this amount, depending on whether the employee has one, two or three or more years company service.

Distribution In Area

Carbide employees living in Oak Ridge received approximately \$6,100,000. Others in Anderson County took home another \$1,300,000. Knox County residents received \$3,300,000, and about \$1,300,000 went to Roane County residents. Loudon County residents got about \$600,000. The additional \$2,100,000 was received by employees living as far away as Athens, Crossville, LaFollette, Maryville and other cities within 75 miles of the Oak Ridge plants.

In 1963 the amount distributed to employees of the Oak Ridge plants was \$14,383,500.

Other UCC Employees

Similar distributions are being made to employees at other locations of Union Carbide. Across the nation, approximately 55,000 employees received over \$71,000,000 this year. Since 1953 when the present Savings Plan started, more than \$365,000,000 has been distributed to Carbide employees.

The Savings Plan dates back to 1935 when it was instituted by the corporation to "encourage employees to save a portion of their earnings on a regular basis." The plan is one of the oldest of its type in industry anywhere. During the 30 years of its existence the plan has seen many improvements.

Changes Made In Plan

Up through 1940, the Company's contribution was 20 per cent for employees with more than one, but less than three years of service; and 30 per cent for employees with more than three years company service. Beginning in 1943, and continuing to date, the Company's deposits have been 10 per cent, 20 per cent or 30 per cent,



WITH A HEFTY SMACK of the sledgehammer, some \$71,000,000 spilled out June 30 to Union Carbide Corporation employees, as 55,000 shared in the odd-year settlement in the General Savings Plan. New York employees are Leona Keeley, wielding the hammer; and looking on are (left to right) Eileen Hinck, Regina Sullivan and Mary Noll.

depending on whether the participant has one, two, three or more years company service.

Employees could participate up to seven and one-half per cent of straight time earnings with a maximum of \$30 per month during the early plan. Later this feature was changed and the maximum was increased to \$83 per month, and the plan was changed from a three-year period to a two-year one.

Personal Savings Account

More favorable changes were affected in 1953, including the option for participants with three years of service or more to participate in the Personal Savings Account. Or, these employees could split their accounts between the two general divisions of the plan. Each has distinct advantages designed to let employees tailor their plans to meet their individual needs.

At distribution time, employees are recommended to review their plans, and make changes they desire in accordance with the basic rules of the Plan.

The next settlement, which will come in 1967, will feature a new amendment. In order to meet Internal Revenue Service requirements, receipt of company contributions will be deferred two years. That is in the next settlement, employees in the General Savings Plan will receive only their own contributions plus interest. Then in 1971, the company

contributions for the 65-66-67 participating period, will be distributed. A plant bulletin has been issued describing the changes necessitated by the IRS ruling.

Checks Mailed Home

Some 600 Y-12ers picked their savings plan checks up in the plant last week . . . another 300 preferred to have them mailed to their banks. The remaining employees received their checks at home.

Union Carbide's Savings Plan continue to provide a plan that has helped many employees pay for homes, automobiles, provide for the education of their children, provide retirement income, or pay off commitments made during each period that the Plan has been operating.

With a continuous record that has outlived many of the earlier participants in the Plan, it is anticipated that future employees will use the Savings Plan for many years to come.

FSU's Melvin Leads Physics Division Seminar

Friday's Physics Division Seminar on "Galactic Super High Energy Sources and Gravitational Collapse." Leading the seminar will be M. A. Melvin, Florida State University.

It is set for Friday, July 9, at 3:15 p.m., in the East Auditorium of Oak Ridge National Laboratory's 4500 building.

SAFETY SCOREBOARD

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The Bulletin College Of Oak Ridge Organizes For Broad Support

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Mrs. Clifton Posey
(Linda Pratt)

POSEY-PRATT

The Bell Avenue Baptist Church, Lenoir City, was the scene of the wedding of Miss Linda Pratt to Mr. Clifton Posey. The ceremonies took place at 8 p.m. Friday, June 11.

The father of the bride, the Reverend Howard H. Pratt officiated. He is in Y-12's General Can Fabrication Department.

The groom is the son of Mr. and Mrs. Clyde H. Posey, Orchards, Washington.

The bride was gowned in white brocade with Alencon lace. She carried a white orchid with white carnation buds.

Miss Glenda Pratt was her sister's maid of honor. Her other attendants were Miss Brenda Pratt, another sister, and Miss Linda Veal and Mrs. Doug McNabb. Miss Debra Lynn Thomas, cousin of the groom, served as flower girl.

Doug McNabb served as the groom's best man. Ushers were George Seay, Danny Thomas and Ronnie Johnson. Howard Pratt Jr. served as his brother's junior attendant.

Following the wedding, a reception honored the couple at Reverend and Mrs. Pratt's home.

After a wedding trip to Gatlinburg, the couple is at home at 512 B Street, Lenoir City.

The price of an eye is out of sight—wear those safety glasses!

Creating College Is No Easy Task

How is a college born? Who gives it the needed impulse to begin growth? Participation in the "act of creation" is one of the fascinations of the College of Oak Ridge.

The ideas that stimulated the beginning of the College of Oak Ridge have been in the minds of Ridgers for many years, expressed in various places and forms. The particular event that prompted the first meeting of the group of Oak Ridgers who later became the incorporators of the college occurred at the initiative of a Baptist minister from Virginia. Dr. Robert McCan, then of Danville, had been a speaker at Clinton High School when it was using Linden School, here, because of the bombing of the Clinton facility. Dr. McCan recognized in Oak Ridge the physical, cultural, social and educational environment in which a college might flourish.

In December, 1962, he met in Knoxville with a professor from the University of Tennessee, a professor from Carson-Newman College and William R. Ramsay of the Oak Ridge Institute of Nuclear Studies. They met to discuss the possibilities for a college in Oak Ridge. It was agreed that an effort should be made to include interested citizens in early explorations. Subsequent discussions between Ramsay and Vincent E. Parker, also of ORINS, resulted in the scheduling of a discussion on January 29, 1964.

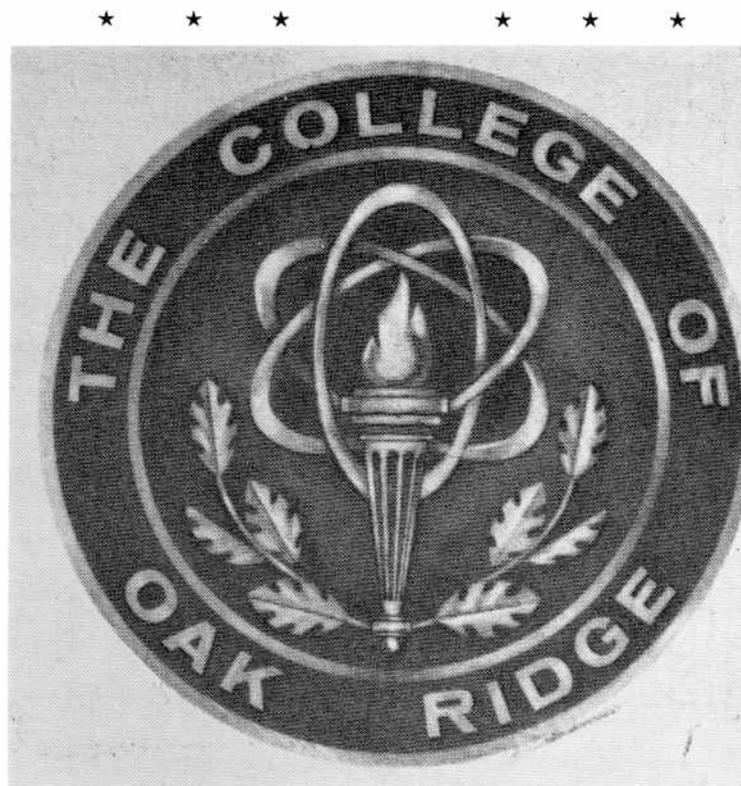
By the first annual meeting of the Board in November of last year, the college had 31 trustees including 19 Oak Ridgers, nine other Tennesseans, and three from other states.

Other Citizens Interested

A great number of individuals from Oak Ridge and from other parts of the country were willing to give time and advice to the trustees as they worked to inform themselves and to build the development program. Professor Robert Brode and Frank Albrecht, in Oak Ridge for the ORINS Science and Social Studies conference, from the University of California and Hollins College, provided a stimulating discussion. Bruce Cotton, vice president for external affairs of Transylvania College, spent a day with trustees discussing development problems and approaches. Dr. Mary I. Bunting, AEC Commissioner who is on leave-of-absence from the presidency of Radcliffe College, lunched with the trustees and explored new concepts of higher education. Professional development counsel representatives were consulted. The Foundation Library Center in New York was visited, and the Board secured the consulting services of Theodore Distler, retired president of the American Association of Colleges.

The city of Oak Ridge has provided, at no cost, office space and equipment at the Municipal Building since 1964.

The need for funds has not delayed the efforts of the Board. The next major steps, the appointment of a president and other key staff members and the comprehensive development of campus plans, will require an additional investment by supporters of the college effort. To a large extent the subsequent attraction of major contributions for the building program and the opening of the college will depend on the success of the current fund-raising campaign.



Sewanee Head To Speak As Group Outlines Need For College Here

A public meeting tomorrow, Thursday, July 8, will launch the campaign to enlist founder support for the College of Oak Ridge.

A founder pledges \$100 or more during the current fiscal year and pledges continuing support in the future. No specific amount for the future is indicated in the initial pledge, however.

Dr. Edward McCrady, administrative head of the University of the South at Sewanee, formerly of the Biology Division, Oak Ridge National Laboratory, will speak at the meeting tomorrow. It will be held at the Oak Ridge High School auditorium, beginning at 8 p.m.

K. W. Bahler, ORGDP, and Mrs. Dana Nance are co-chairmen of the campaign. Serving with them on the financial campaign committee are Mrs. Frederick Ford, secretary; Jack Gibbons, ORNL; James Stiegler, ORNL; Mrs. H. G. MacPherson; Mrs. David Hobson; Thomas Yount; Robert Hamer; Walter Fuller; Dr. Paul Spray; and Melvin Sturm.

Seeking Broad Support

Money raised in the current campaign will be used not only to employ executives to found the college, to secure land, and to provide the services of professional campus planners, but to demonstrate broad local support for a college in Oak Ridge. Only after such support has been demonstrated will it be possible to seek the large sums of outside financial support necessary for establishing a college. For this reason the College is seeking a broad base of founder support.

The College is planned as a private four-year liberal arts college, with enrollment of about 1,000; where the teaching of the sciences is as strong as the teaching of the humanities. A balanced curriculum of sciences and humanities has been an almost impossible achievement for the typical small liberal arts college since World War II.

Availability of Teachers

High-quality teaching will be a major strength of the College, and it is planned that scientists on the staffs of all three Union Carbide installations here will teach part time, as will local people trained in other areas.

A goal of 1,500 Founders has been set in the local campaign.

When this goal is reached, the College will be in a position to hire a president and a dean. It will be in a position to secure land and hire a professional planner and architect. And it will be in a position to seek substantial outside funds. The College cannot proceed much further until tangible local support is demonstrated.

Credo Outlined

The Founders must declare: "Oak Ridgers believe in the College of Oak Ridge. A new community of salaried employees rich in talent but poor in established lines of 'old' money are willing to support — to make sacrifice for, in some cases — an idea that is part realistic acknowledgement of what can be and part idealistic dream of what should be."

Land suitable for a college exists within the city. The machinery for procuring such land is rather complicated, however. The most attractive land, at this time, is owned by the Atomic Energy Commission. The AEC, however, cannot give this land directly to any educational organization (even if they so desired.) The land must first be declared surplus and then go to the Department of Health, Education and Welfare. It is then disposed of at HEW's discretion.

Immediate needs for the College, then, boil down to citizen support. That is the purpose of tomorrow's meeting.

Y-12ers Are Active

Several Y-12ers have already come forward to donate their time and efforts in the Founder support program. James W. Hodges and William Harper have been enrolled as captains, each with five solicitors. H. G. P. Snyder, superintendent of Industrial Relations, has been named a solicitor.

Many other Y-12ers will be called on as the financial campaign is formally opened in tomorrow's meeting.

To learn more of Oak Ridge's plan to establish a College, be sure to attend the kick-off meeting at the Oak Ridge High School tomorrow night at 8 p.m.

Approximately \$300 million of the nation's silver was 'borrowed' for early processing in Y-12.

Why A 4-Year College Here?

Why start a college in the first place?

"The machine now has a high school education in the sense that it can do most jobs that a high school graduate can do, so machines will get the jobs because they work for less than a living wage. A person needs 14 years of education to compete with machines." This statement by Secretary of Labor Willard Wirtz is a direct, practical answer to the question "Why go to college?" The more specific question, "Why start another college?" finds a partial answer in the fact that next fall the number of college enrollment applications will be 40 per cent larger than in 1964.

Because the city of Oak Ridge is a highly science-oriented community, it will be possible for a college here to fill the need for a new type of liberal arts education where the teaching of the sciences is as strong as the teaching of the humanities. Liberal arts education relevant to the modern world must include a deep understanding of science and its present and future impact. A college in Oak Ridge can draw on the pool of scientific knowledge in local research, development and training activities through participation by scientific personnel in seminars, lectures, consultation, special projects and part-time teaching. Also, teachers of excellence in the sciences will be needed to create the academic climate essential to an application of the nature of science in today's society. Highly qualified teachers in science who might hesitate to isolate themselves from the scientific community by teaching on the typical small college campus would find Oak Ridge an interesting and stimulating environment.

Plentiful Resources

Surrounding Oak Ridge are areas that have great resources of land, forests, water, transportation, and electric power, but, unfortunately, many people of these areas lack the economic, educational, and cultural advantages available in many other sections of the nation. A college can play a significant part in the development of the human resources needed for the constructive stewardship and application of this natural potential. The college staff and faculty will increase the leadership and knowledge from which the region can draw in its development, and the students drawn from and returned to this region will provide new leadership and new stimulation through their educational experiences.

In East Tennessee and neighboring areas, a large percentage of high school graduates who have the potential to succeed as college students do not attend college. Many of these graduates will be served by the college.

The College of Oak Ridge is not in conflict or competition with any state-supported institution. Private and state colleges coexist in many cities throughout the country, each with its individual purposes and goals and each fulfilling special needs. In most cases the two types of institutions complement each other. Indeed, the College of Oak Ridge can benefit greatly from such institutions in the Oak Ridge area, most notably the University of Tennessee, with its cultural and academic climate, extensive and expanding facilities and graduate programs.

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Orange Badges For Non Y-12ers

Next Monday, July 12, a new badge will be introduced in Y-12. Picture badges for construction, vendor, service and other personnel who perform work in the Y-12 Plant will wear an orange framed badge. The orange frame on the blue badge case will distinguish these non-Y-12 Plant employees from Y-12ers and regularly assigned Oak Ridge National Laboratory personnel working in this area.

Employees should exercise their security responsibility by checking persons wearing an orange framed badge to be sure that the person has a need for being in the work area. Violators must be

Badge Exchange Continues This Week

The quarterly badge exchange continues for Y-12ers . . . and new blue-bottomed identification pieces will remain in the racks at the portals through 11 p.m. next Wednesday, July 14.

After that date, employees who have failed to exchange their yellow-bordered badges will be required to report to the Badge and Pass Office, Building 9704-2, for the exchange. No old Spring Quarter badges will be honored at the gates after July 14.

reported through supervision to the Security Department or the Plant Shift Superintendent's Office.



Will join car pool from Garden Apartments area to North or East Portal, straight day. John P. Sanders, plant phone 3-7422, home phone Oak Ridge 482-3241.

Ride wanted from Highland-West Outer Drive vicinity, Oak Ridge, to Central Portal, straight day. Mary Lou Bailey, plant phone 3-7373, home phone Oak Ridge 483-7722.

Y-12 is the oldest of the three Atomic Energy Commission plants in Oak Ridge.



Mid-July finds many more Y-12ers celebrating important anniversaries with Union Carbide Corporation. Congratulations.

20 YEARS

Bilton R. Scott, Janitors Department, July 9.

Robert S. Burdette, Chemical Services, July 10.

Arnold K. Self, Beta Two Forming, July 11.

William E. Gross, Assembly Operations, July 11.

15 YEARS

Avis Collins, Rover Fabrication, July 8.

Arburth M. Maples, A-2 Shops, 9212, July 10.

Ernest W. Greenlee, Buildings, Grounds and Maintenance Shops, July 12.

Harvey C. Hankins Jr., Tool Engineering, July 12.

10 YEARS

Hoyt C. Huston, Estimating and Tooling Coordination, July 11.

Herbert L. Humphries, General Machine Shop, July 13.

Charles D. Johnson, Dimensional Inspection, July 13.

C Shift Plans Big Burger Fry Tomorrow

C Shifters plan a big 'Burger Fry' tomorrow, Thursday, July 8, at Concord Park . . . from noon until 6.

You C Shift men, come on out . . . and bring the families. Contact your Recreation representative for details.

Charpie Awarded Degree At Denison University

Robert A. Charpie, Director of Technology, Union Carbide Corporation, was awarded an honorary degree as doctor of humane letters by Denison University, Granville, Ohio, last month.

Recreation



calendar

Sunday, July 11

SKEET LEAGUE: 1 p.m., Oak Ridge Sportsmen's Association.

Monday, July 12

TENNIS LEAGUE: By Arrangements.

SOFTBALL LEAGUE: Beginning 6 p.m. Bat Boys vs Mets; K-25 vs Apprentices; Teds vs Nucons.

Tuesday, July 13

SOFTBALL LEAGUE: Beginning 6 p.m. K-25 Instruments vs Braves; Biology vs Isotopes Reactor; Plant & Equipment vs Bums.

Wednesday, July 14

RIFLE LEAGUE: 7 p.m., Anderson County Gun Club.

Thursday, July 15

HORSESHOE LEAGUE: 7 p.m. City Courts.

PHYSICAL FITNESS: 7:30 p.m., Oak Ridge High School Gym.

SOFTBALL LEAGUE: Beginning 6 p.m. Permits vs Stems; Eagles vs Ball Hawks; Instrumentation and Controls vs Atoms.

Close Race Marks Archery League

High scores and steady shooting are causing a close race in the Carbide Archery League in class A. Bill Bardill, Lefty Hilemon and Zona Wright have all scored around 1,500 points. Only 26 points separate the three arrowmen and women.

Individual highs in other groupings include:

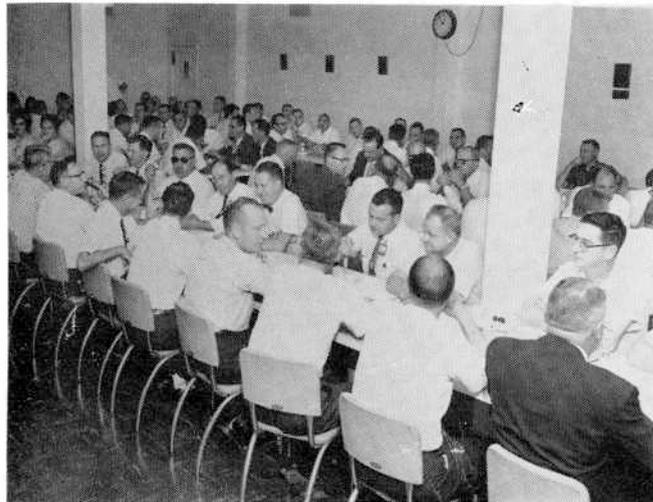
Class B	
R. L. Clark	247
R. Magyar	235
Class C	
W. H. Davy	199
F. E. Dam	179
Class D	
F. Hipshire	198
C. E. Miller	149
Class E	
B. D. Holcomb	118
D. S. Carroll	95



DISPATCHING'S WILLIAM 'ZED' TRIMBLE, center flanked by the girls, Jane Brown and Virginia Newby, is honored by his department prior to his retirement June 30. After coffee and cake the department presented Zed with a Polaroid camera.



WALTER D. HILL, STORES DEPARTMENT, receives the best wishes of his section last week as he retired to his Duff, Tennessee, home. The group presented him with a wrist watch. J. B. Geasland, seen in the center, presented the watch.



CLOSING OUT A LONG CAREER in Y-12 last week was Carl B. Newman, Engineering Division. Many Y-12ers, acquaintances through the years, congregated at the

Cafeteria for an impromptu luncheon last week to honor the retiring Newman. At right and left the diners are seen . . . and in the center photograph W. E.

Heckert provides the testimonials. A camera outfit was presented the well-known Newman. Newman lives at 423 New York Avenue, Oak Ridge.