

6-14271

Union Carbide's Ocean Systems Into Orient For Far East Research

In order to advance commercial ocean engineering in Japan, Ocean Systems, Inc., an affiliate of Union Carbide Corporation and The Singer Company, and Sumitomo Shoji Kaisha, Ltd., have formed a new company, Ocean Systems Japan, Ltd.

Ocean Systems Japan (OSJ) is owned on a 50-50 basis by the two founding companies, and will focus on offering to Japan a broad range of ocean engineering capabilities. These include man-in-the-sea programs, ocean search and recovery, cable implantment, ocean engineering, and salvage related operations.

Ocean Systems, Inc., established in 1965, was the first company organized primarily to extend man's ability to perform useful work in waters as deep as 1,000 feet. It has pioneered in the research and development of human and physical resources required to permit man to perform useful work in waters deeper than he had been able to before.

Ocean Systems, Inc. has established many of the current world deep diving records—both simulated and at sea. Its advanced diving systems are currently at work, primarily for oil companies, at several locations throughout the world. It proved the viability of using electric arc welding technology in a dry atmosphere for underwater joining requirements previously impossible to accomplish. Late in 1968, it introduced a unique offshore production system for obtaining petroleum resources in deep waters. It is also a contractor for the U.S. Navy for search and salvage missions anywhere in the world.

In addition to seven facilities in

the U.S. OSI is represented in England, Norway, Australia, and the Bahamas. Ocean Systems Japan will be headquartered in Tokyo.

Sumitomo Shoji Kaisha is one of the leading integrated trading companies of Japan for the Sumitomo group of companies which are involved in Japan and around the world in a host of activities including mining, steelmaking, shipbuilding, machinery manufacturing, electrical and electronic equipment, chemicals, ceramics, finance and insurance, real estate, forestry, civil engineering and construction.

Headquartered in Osaka, Sumitomo Shoji Kaisha, Ltd. realized sales of \$1.4 billion from April 1 to September 30, 1968. The Sumitomo group actually trades its beginnings to the end of the 16th century when the founder opened a copper smelting refinery.

Sumitomo Shoji Kaisha was founded in 1919, has about 5,500 employees, and maintains offices in nearly 70 principal cities throughout the world.

The new company will operate

Continued on Page 4

Technical Sets Gala Dinner-Dance March 29

The Technical Division vows they will have a dinner-dance this year . . . and has agreed on a day and a place . . . so Technical personnel take note: Saturday, March 29 is the date. The place Beaver Brook Country Club. Tony D'Andrea's Orchestra will be on hand after dinner for the big dance.

So hold that date for the big dance, ye Technicalites!



A PATENT APPLICATION IN THE NAME of the United States Government has been filed for a 'Method for Preparing Honeycomb-Type Structures.' The development was advanced by Fred G. Childress, right, who is congratulated by Harvey T. Kite, superintendent of Applied Chemistry Development.

'Pieta' Sculpture Gave Artist Painful Injury

Michelangelo suffered a painful eye injury while sculpting his famed "Pieta" as a sliver of steel flew into one of his eyes.

One excuse he might have used in the 15th century was that safety glasses hadn't been invented. What's your excuse?

Health Physics Meeting Is Monday

Dr. LaMont C. Cole, President of the American Institute of Biological Sciences, will be featured speaker for the February meeting of the East Tennessee Chapter of the Health Physics Society. The meeting will be 7:30 p.m., Monday, February 24, at the Holiday Inn, Oak Ridge.

Cole received his B.S. degree in physics from the University of Chicago in 1933, his M.S. in biology from the University of Utah in 1940 and his Ph.D. in zoology in 1944 from the University of Utah.

After serving as an officer with the U.S. Public Health Service during World War II, he became an instructor and later an assistant professor at Indiana University, 1946-48. He is currently professor of ecology at Cornell University where he began as an assistant professor in 1948.

He has served as Vice-President, President-Elect and President of the Ecological Society of America; as a member of the regional advisory board for the Biometric Society; and as a member of the executive committee, Vice-President, and President-Elect of the American Institute of Biological Sciences.

Cole is a frequent consultant and member of advisory panels for various government agencies. He served on the Advisory Committee on Environmental Biology of the National Science Foundation and is currently a member of the Bioinstrumentation Advisory Council of AIBS and Chairman of the Special Study Section for mathematics-statistics in the National Institutes of Health.

He has served on publication committees and educational boards of several journals and was Review Editor of *Ecology* from 1952 to 1954 and *Zoological*

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Engineers

Special activities mark Engineers Week for many professional societies in Y-12 this week. A banquet is planned tomorrow night in Oak Ridge at the Holiday Inn. Featured speaker will be H. L. Stuart, Atlanta Rapid Transit Authority, who will speak on "The Role of Transportation in Urban Development." The banquet begins with a social hour at 7 p.m., dinner at 8. Y-12ers may obtain more information through S. E. Groothuis, representing the Institute of Electrical and Electronic Engineers. Cost of tomorrow's banquet is \$4.25.

Knoxville engineers are observing Engineers Week with a luncheon tomorrow, February 20 at the Main Ball Room of the University of Tennessee Student Center. Featured speaker will be Roy Wilkins, executive secretary of the National Association for the Advancement of Colored People. Cost of the luncheon is \$2.25 and may be purchased from representatives of the Knoxville Technical Society or at the door prior to tomorrow's noon luncheon.

Special windows also mark the week throughout Oak Ridge and Knoxville. The nation salutes its engineers . . . 'partners in rebuilding urban America.'

SAFETY SCOREBOARD

The Y-12 Plant Has Operated 86 Days Or 2,552,00 Man-Hours (Unofficial Estimate) Through February 16 Without A Disabling Injury SAFETY AT HOME, AT WORK, AT PLAY



A RECENT PHOTOGRAPH SHOWS THE PRESENT Atomic Energy Commission . . . consisting of Commissioners Francesco Costagliolo, Wilfrid E. Johnson, Chairman Glenn T. Seaborg; Commissioners James T. Ramey and Gerald F. Tape.

The Bulletin

Published Weekly For The
Y-12 Employees Of
UNION CARBIDE
CORPORATION



NUCLEAR DIVISION

JAMES A. YOUNG Editor



American Association Industrial Editors

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Ellison Rites Are Held In Oak Ridge

The plant was saddened last week by the death of Mr. Ray B. Ellison, Assembly Operations. He died of an apparent heart attack while at work Wednesday, February 12.



Ray Ellison

A native of Corbin, Kentucky, Mr. Ellison came to Y-12 July 12, 1954 after working with the Louisville & Nashville Railroad, in Corbin; and on his father's dairy farm. He served in the U.S. Air Force during World War II, from 1942 until 1945.

The Ellison home is at 105 Powell Road, where his wife, Mrs. Helen Little Ellison, survives. A son, David W. Ellison, Clinton, survives; along with two brothers, Sidney, Cincinnati; and John Ellison, who works in Y-12; and a sister, Mrs. Dorothy McLendon, Oak Ridge.

Funeral services were held Saturday, at 2 p.m., February 15, at Martin Funeral Home, Oak Ridge. Interment followed in the Tennessee Memorial Gardens.

Sincere sympathy is extended the Ellison family.

Shifters Enjoy Big Game Night February 8

The E, F, G, H and J Shift game night at the Green Room, Saturday, February 8, was a big success with about 110 people attending. The top prize of a ladies' wrist watch went to the very excited wife of Jack Spears.

There were only two double winners . . . the W. H. Bonney family and the D. Schafers. Others taking prizes were Ed Hensley, Bob Birdwhistle, H. D. Baker, C. H. Edwards, Tommy Blackwell, C. B. Burris, J. M. Johnson, C. R. Martin, E. K. Beeler, G. D. Ray, G. E. Reece, E. W. Arrington, and L. E. Sikes.

MIT's Cosman Guest Speaker At Seminar

This week's Physics Division seminar is announced as "Recent Analogue-State Experiments and Coupled Channel Calculations in the N=50 Nuclei," led by E. R. Cosman, Massachusetts Institute of Technology.

The seminar is set for tomorrow, Thursday, February 20, in the East Auditorium of ORNL's 4500 building at 3:15 p.m.

FACT OF TACT

Tact is the ability to close your mouth before somebody else does.



ABOUT three months ago, Kenneth Heny Self Jr. appeared in the Senior Self's home (The father is in Y-12's Development). Grandfather A. K. Self is in Chemical Services and the other one is in ORNL. Mary Francis Bailey, one of the proud grandmothers is in Y-12's Credit Union Office.

Friday Is Holiday For Most Employees

Friday, February 21, is an official holiday for most Y-12ers. Only those whose presence is required by security or the continuous operation of the plant will need to report to work.

Actually, Saturday, February 22 is George Washington's birthday. If you want the real truth the Father of Our Country wasn't born on February 22 even! His birthday is February 11 on the Old Style calendar. When the calendar was revised George's birthday was set at February 22.

MOUTHS OF BABES

A first-grader we know listened rather intently to the discussion on over-crowded schools. He offered his personal solution, stating he'd just as soon quit anyway!

QUESTION POSED

The man who asks a question may remain ignorant for only a minute. The man who never asks may remain so the rest of his life.

Neisler Labs Are Sold By Carbide

An agreement in principle for the acquisition of the business of Neisler Laboratories, Inc., by Mallinckrodt Chemical Works, is announced jointly by Harold E. Thayer, president and chairman of the board of Mallinckrodt, and Birny Mason Jr., chairman of the board of Union Carbide Corporation. Neisler Laboratories is a wholly owned subsidiary of Union Carbide, acquired in 1965.

At a special meeting, Mallinckrodt directors approved the plan to purchase Neisler, authorized interim financing through Mallinckrodt's regular banking channels, and authorized the preparation of a registration statement pending a decision as to the nature of permanent financing. The sale of the Neisler business to Mallinckrodt has been approved by the directors of Union Carbide.

Commenting on the proposed acquisition, Thayer said, "The purpose is to establish a broader base of therapeutic products on which Mallinckrodt can grow as a pharmaceutical manufacturer."

Mallinckrodt plans to operate Neisler Laboratories as a division. Production and some research is located at Decatur, Illinois. Neisler headquarters and sales office are in New York City.

Neisler Laboratories produces and markets prescription drugs used in the treatment of hypertension, the control of obesity, and the symptomatic treatments of coughs, colds, and other respiratory disorders, and also markets a limited line of sophisticated diagnostic agents.

Mallinckrodt is a century-old manufacturer of pharmaceuticals and chemicals. The company is a major manufacturer of intravenous contrast media used in diagnosing diseases of the heart, brain, and kidneys; and barium products for examination of the gastrointestinal tract. Mallinckrodt has a limited line of therapeutic products for the treatment of tuberculosis, anemia, respiratory diseases, and the symptomatic treatment of coughs and colds.

No legacy is so rich as honesty

Warren Sons Home Recently from Service



SP/4 James M. Warren

James M. (Mike) Warren, son of Mr. and Mrs. J. E. Warren, 120 Goucher Circle, just recently completed a 30-day leave after ending his training in Nike Hercules Electronic Maintenance at Fort Bliss, Texas. He was graduated from the school on November 18, and attained the rank of specialist fourth class.

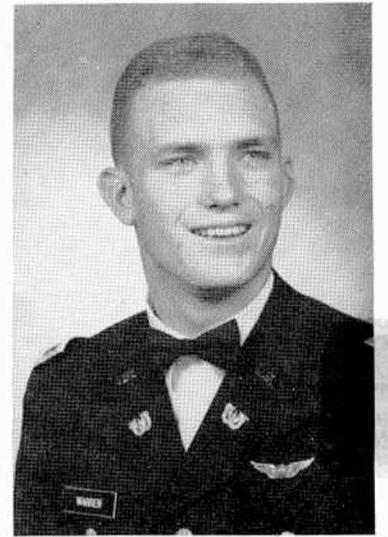
Warren enlisted in the U.S. Army on March 4, 1968, and took his basic training at Fort Campbell, Kentucky, before going to Fort Bliss.

Mike and his wife, the former Kathy Lindsey, have returned to Fort Bliss where his new assignment will be with the 6th Artillery.

Warren's father is in Y-12's Fire Department, and his father-in-law, Jack Lindsey, is in Engineering Services' Reproduction Department.

Chief Warrent Officer James D. Warren has returned home from a year's service in the Republic of Viet Nam.

CWO Warren flew helicopters for the 161st Assault Helicopter Company, "A" Company, 123rd Aviation Battalion, and with the famed "Blue Ghost" of F Troop, 8th Cavalry, while in Viet Nam. Warren earned numerous medals, including the bronze star, the Air



CWO James D. Warren

Medal (with 21 oak leaf clusters) and two Vietnamese service medals.

He has returned to Ft. Rucker, Alabama, as an instructor pilot. His wife, Penny, and son, Don, live at 93 California Avenue.

Warren's father, Earl Warren, is in the Fire Department . . . and his father-in-law, Robert T. Rose, is in Y-12's Stores Department.



Riders wanted from Burlington area, West Haven section, to any portal except Bear Creek, G Shift. F. C. Fluri, plant phone 3-5405, home phone Knoxville 525-5604.

Ride wanted from Petros to West Portal, straight day. Jerry Peddicord, plant phone 3-5068, home phone Petros 324-2690.

Ride wanted from Fort Loudoun Dam area, Lenoir City, or can catch ride in town, to Biology Portal, straight day. Margie Leek, plant phone 3-5256, home phone Lenoir City 986-8298.

Ride wanted from 2908 Wimpole Street, Knoxville, to Central Portal, straight day. Elizabeth J. Stinson, plant phone 3-7133, home phone Knoxville 525-3060.

Guest Conductor Leads Chorus Here Saturday

Guest Conductor Delton I. Alford will direct the Oak Ridge Chorus in its winter concert Saturday, February 22, at 8:15 p.m. in the Oak Ridge High School Auditorium. Dr. Alford is chairman of the division of arts and sciences, Lee College, Cleveland, and conductor of the Lee Singers. He has had extensive experience in choral conducting in both the United States and Europe.

In this concert Dr. Alford will direct the Chorus in selections from "Vesperae Solennes de Confessore" by Mozart, "Six Chansons" by Hindemith, and "Neue Liebeslieder" by Brahms. The Oak Ridge Madrigal Singers will present a group of songs from the Renaissance period.

This concert is part of the Oak Ridge Civic Music Association's regular series; however, tickets for the single concert may be obtained at the High School box office prior to the performance.

EARTH-SHAKING FACTS

Despite famous earthquakes in California, most of the destructive earth tremors in the United States have occurred in the eastern half of the country.



Y-12ER E. N. ROGERS, CENTER, instructs Training and Technology Project students in proper welding techniques. The instruction is part of the TAT program to up-grade skills in this area. The students are M. L. Seay, Chattanooga; F. A. Armes, Wartburg, from left; and B. A. Shipwash, Knoxville, far right. TAT is administered by Oak Ridge Associated Universities and Union Carbide Corporation - Nuclear Division.

Table-Tennis Sees Third Round Debut

Table Tennis began its third round last week . . . as two sets got scheduled in the Y-League. Ed Gambill downed Francois Kertesz for two games . . . Ken Toth took Gordon Brewer by the same count.

Y Standings Follow:

Player	W	L
Ed Gambill, Y-12	2	1
Ken Toth, ORNL	2	1
Francois Kertesz, ORNL	1	2
Gordon Brewer, Y-12	1	2
Bob Smith, Y-12	0	0
Joe Lewin, ORNL	0	0
Art Stewart, Y-12	0	0
Jerry Manning, K-25	0	0

In X action Jerry Goldstein won three games from Hugh Moore for the only game played.

X League Standings:

Player	W	L
Jerry Goldstein, ORNL	3	0
Hugh Moore, ORNL	0	3
Loyd Wyatt, Y-12	0	0
Bill Motley, Y-12	0	0
Herb Mook, ORNL	0	0
Jerry Keyes, Y-12	0	0
Ariko Hirose, ORNL	0	0
Steve Blum, K-25	0	0

Twisters Roll Hi In Mixed Alleys

The Mixed League, half way through its second half, sees the Twisters and Goofers lonely at the top of the bowling men and women. The Goofers gained four points last week at the expense of the Roses 'N Thorns . . . the Twisters tore three points from the Hits & Misses.

Taking three were the McSprays by the Rollers, and the Mustangs around the Alley Cats.

Spence Ferguson, Twisters, took all singles honors . . . 212 scratch, 245 handicap. Bob Hagood, Goofers, rolled a 542 scratch series . . . Bill Sahr, Twisters, posted a 618 handicap series.

Lou Sahr, Twisters, rolled a 209 scratch game, 247 handicap single . . . and a 476 scratch series. Her team buddy Donna Ferguson kept up the team's honor by rolling a 604 handicap series.

The Twisters took all honors in team-counts . . . singles of 737 scratch, 887 handicap! . . . series of 1975 and 2425, season highs!

League standings follow:

Team	W	L
Twisters	24	4
Goofers	20	8
Roses 'N Thorns	14	14
Hits & Misses	14	14
Rollers	13	15
McSprays	13	15
Mustangs	10	18
Alley Cats	4	24

Y-12ers Fire High In February Skeet

Y-12ers B. Etheridge and J. Comolander took first and second places respectively in the February 2 Skeet Tournament. ORNLite D. Frye capped third place. Etheridge's score was 49.200 . . . Comolander's 49.040 and Frye's 48.753.

Fred Welfare and Jack Case fired high also, but their score fell into penalty scoring due to previous highs.

The next Skeet shoot-out is set for Sunday, March 2, to begin promptly at 1 p.m. at the Oak Ridge Sportsmen's Association range. All skeeters, pros and newcomers, or those interested in learning to skeet shoot are invited out. The more the merrier, they say.

February scores:

Firer	H'Cap Score
R. A. Allstun, Y-12	48.645
J. Comolander, Y-12	49.040
L. Bray, Y-12	48.654
B. Etheridge, Y-12	49.200
C. Theobald, K-25	47.760
W. Weathersby, Y-12	47.120
F. Welfare, ORNL	49.156*
B. Bowers, Y-12	48.381
J. Case, Y-12	49.661*
V. Raaen, K-25	47.120
C. Brewster, Y-12	48.080
B. Searles, Y-12	48.080
F. Patton, Y-12	48.298
P. Bullard, Y-12	48.132



HI-POWERED RIFLEERS FROM ANOTHER SEASON set their sights on a distant target. Y-12 enthusiasts will welcome the news that another high power rifle league will begin March 22 at the Oak Ridge Sportsmen's Association. Subsequent matches will be fired on April 12, 26; May 17; June 14, 28; and July 26 . . . all Saturdays. Any employee of Union Carbide is eligible to shoot in these matches.

High Power Rifle League Set To Begin Next Month For Interested Carbiders

A High Power Rifle League is set to start soon, in which all interested Union Carbide employees may fire. The first match will be held on Saturday, March 22, at the Oak Ridge Sportsmen's Association. Firings start promptly at 9 a.m., and are set for subsequent Saturdays, on April 12 and 26; May 17; June 14 and 28; and July 26.

Course of fire will include 10 shots standing, slow fire at 200 yards; 10 shots sitting, sustained fire, at 200 yards; 10 shots prone, sustained fire, 300 yards; and 20 shots prone, slow fire, at 600 yards. There will be three sighting shots at each range.

Scratch and handicap scores are recorded and firers will be eligible for only one award . . . i.e., he cannot win scratch and handicap both.

Any center fire rifle 6mm (.243 caliber) or larger that may be loaded from a clip or magazine may be used, and any metallic sights are permitted. NRA High-Power Rifle rules will apply.

Time limits are one minute per shot on slow fire; 60 seconds for 10 shots at 200 yards and 70 seconds for 10 shots at 300 yards in rapid firing. In rapid fire the shooter remains in the standing position until the targets start to appear.

Military type, short range and medium range, decimal targets will be used. (That's when a total miss is called 'Maggie's drawers' if our military memory serves us correctly!)

Beware Of Wild Game Warns Safety Council

Campers and hikers who take to the woods soon will probably run into wildlife of the four-footed variety. The National Safety Council suggests several precautions to keep in mind for encounters with animals ranging from racoons to grizzlies.

The most important rule is: Enjoy all wildlife from a distance. Animals are generally not friendly creatures. In the spring, they may have just come out of hibernation and can be especially aggressive and hungry.

Avoid invading animals' privacy by teasing, provoking or scaring them. Normally, they don't want to have anything to do with people.

Rifleers must fire in four of the seven matches to be eligible for prizes. The fee will be \$2.75 per match to pay pit personnel.

In case of inclement weather the above dates may be altered. League director is H. W. Bertini; J. E. Brewer is statistical officer; and Carl Brewster is supervisor.

Brewster may be contacted at extension 3-7554 for further information on the league.

GBU's 'Cool' Basket Opponents

ORNL's Isotopes broke Basketball ice last week by eking out a victory over the K-25 Cobols 34 to 30 . . . holding the Cobols to only one point in the final period. The K-25 team lead by two points until the final section of the game.

Top scorer for the victors was Dick Wagner who had nine through the bucket . . . Roy Vandermeer, Quinton Long and Jim Gibson all scored eight.

The game was well-played by both teams, with even control.

The Carbide Trojans out-rebounded the Bums, Y-12, to win 46 to 36. Wallace Johnson cleaned the boards for the Trojans; Churchill Moore got his usual share with 19.

Joe Gallman was the Bums' chief scorer with 16.

The Cavaliers outran the Ail Stars 48 to 28 in final play last Monday. The winners had only five men but those five proved more than the Ail Stars could handle.

Jerry Goddard gleaned 20 points from the scoreboard, controlling both boards in the process.

The Bums earned a forfeit victory from the Soul Men.

There was no action Tuesday, as Wednesday's action double-timed it to keep up the schedule.

The Butter Balls, led by Gordon Guthrie and Curtis McGinnis, out-lawed the Dagmops 44 to 28 . . . outscoring them in every quarter . . . save the third where they trailed only by one.

Don Neikirk scored 10 for the losing team.

The GBU's, Y-12's big unstoppable team apparently, rolled over the Bombers easily Wednesday 67 to 40. The Bombers opened up like a house afire, but slowed to allow

Big Teams Fall In Classic Rolling

Top teams in the Classic League dropped their pins in bowling last week. The Rebels tripped the top Tigers for three . . . and the Markers took the same count from the Pinbusters. The Splinters moved up by downing the Eightballs.

The Eagles took the only sweep of the week by defeating the Swingsters. Other three point wins went to the Screwballs over the Rebels, the Bumpers by the Smelters, and the Playboys by the Cubs.

Sewell Brown, Has Beens, rolled a 233 scratch game. John Reece, Splinters, and H. D. Whitehead, All Stars, tied for handicap single honors . . . with 252. Norm Shamblyn, Markers, marked series of 633 scratch, 699 handicap!

The Splinters were best in singles . . . 933 and 1080. The Bumpers took series scratch highs with 2591, and the Splinters came through with a 3016 handicap series.

League standings follow:

Team	W	L
Tigers	24	8
Pinbusters	19	13
Splinters	19	13
Smelters	14	14
All Stars	14	14
Rebels	18	14
Has Beens	17	15
Eagles	17	15
Screwballs	16	16
Bumpers	15½	16½
Swingsters	15	17
Markers	15	17
Rippers	14½	17½
Playboys	12	20
Cubs	11	21
Eightballs	7	25

the GBU's to catch and overtake them.

Ron Gamrot dropped 25 through the bucket.

Bud Lewis scored 14 on the losing team.

The CC 69ers, Y-12's other team seeded in the topper section, out-scored and outran the Biomed 55 to 37.

Jim Williams towered over the crowd . . . both in height and score . . . with 18 points.

Bill Olson tallied 14 for the Biomed.

Y-12's Bat Boys dropped a game to the Guess Who's 42 to 27 . . . brave lads but bravery never won a ball game. The GW's showed their better shape to control both boards. Ed Bailiff led them with 11 points.

The BB's never got into double-figure scoring at all for any player.

The Beta 2 Miners, Y-12, tromped their buddies the Ail Stars 54 to 42, steadily pecking away and gradually pulling away with John Scott feeding the hoop for 28 points. He was deadly especially around the foul line. John White arrived in the second quarter to give the Stars a big lift. He also fouled out in the final period to aid the losing cause.

The final game of the week pitted the Computes against the Quarks . . . the Computes winning 57 to 46. This was a real bang-up ball game. Just as the Quarks would pull within range the Computes would again feed the right info in and come out with a winning punched card. Big Jim Treadwell came up with many right answers with 31 points.

Team	W	L
GBU's, Y-12	10	0
CC 69ers, Y-12	8	1
Computes, ORNL	8	1
Bombers, ORNL	7	3
Biomed, ORNL	7	4
Cavaliers, ORNL	7	5
Beta 2 Miners, Y-12	6	4
All Stars, Y-12	6	5
Quarks, Y-12	6	5
Butter Balls, Y-12	6	5
Isotopes, ORNL	5	5
Cobols, K-25	4	6
Carbide Trojans, K-25	4	6
Bums, Y-12	4	7
Guess Who, ORNL	2	8
Bat Boys, Y-12	2	9
Dagmops, Y-12	1	9
Soul Men, ORNL	0	10

Recreation



Friday, February 21

HOLIDAY: George Washington's Birthday.

Monday, February 24

TABLE TENNIS: 7 p.m., Oak Ridge Wildcats' Den.

BOWLING: C League, 5:45 p.m. Ark Lanes.

PHYSICAL FITNESS: (For Women): 7:30 p.m., Oak Ridge School Girls' Gym.

BASKETBALL: Beginning 6:30 p.m. Oak Ridge High School Gym. Dag Mops vs. Biomed; Bat Boys vs. CC 69ers; GBU's vs. Quarks.

Tuesday, February 25

PISTOL LEAGUE: 6:15 p.m. Oak Ridge Sportsmen's Association.

PHYSICAL FITNESS: (For Men): 7:30 p.m., Oak Ridge High School Gym.

BASKETBALL: Beginning 6:30 p.m. Oak Ridge High School Gym. Cobols vs. Butter Balls; Bums vs. Guess Who; Ail Stars vs. Bombers.

Wednesday, February 26

BASKETBALL: Beginning 6:30 p.m. Oak Ridge High School Gym. Carbide Trojans vs. Soul Men; Isotopes vs. Cavaliers; Beta 2 Miners vs. Computes.

BOWLING: Mixed League, 8 p.m., Ark Lanes.

Thursday, February 27

BOWLING: Classic League, 5:45 p.m. Ark Lanes.

ARCHERY LEAGUE: 5, 6 and 7 p.m. Indoor Range, Oak Ridge Sportsmen's Association.

VOLLEYBALL: Beginning 6:30 p.m. Oak Ridge High School Gym. Court A: Gashouse Gang vs. K-25 Hawks; Set-Ups vs. M & C; Beavers vs. ORAU. Court B: Nemeses vs. Semanon; Ecobums vs. Beta 4 Astros; Defects vs. Old Men.

Sunday, March 2

SKREET TOURNAMENT: 1 p.m. Oak Ridge Sportsmen's Association Range.

Who Can Stop V-Ball Beavers?

Volleyball action continued last week, as the Naughts began play downing Metals and Ceramics 15-8, 15-8 and 15-1. The M&C team took game three 15-4. The ORAU team ousted the Gashouse Gang 17-15, 15-11 and 17-15, while the Gang took game four 15-9. The Set-Ups swept four from the Semanon 15-4, 15-7, 15-7 and 15-6.

On Court B, the Beavers continued their merry chase over the entire leave, blasting the Beta 4 Astros 15-4, 15-1, 15-2 and 15-6. The Nemeses nailed the Old Men 15-4, 15-3 and 15-4; the Men taking game three 15-8. The Ecobums edged by the Defects 15-10, 15-10, 15-12 and 15-9.

League standings follow:

Team	W	L
Beavers, Y-12	35	1
Nemeses, K-25	28	8
Ecobums, ORNL	25	11
Old Men, ORNL	26	14
K-25 Hawks	23	13
Set-Ups, ORNL	23	13
Semanon, ORNL	21	15
Defects, ORNL	20	16
ORAU	10	26
M&C, ORNL	9	27
K-25 Gashouse Gang	9	31
Naughts, ORNL	8	32
Beta 4 Astros, Y-12	3	33

HILLS OF HOME

A Texas rancher died and went to his reward. "Ah nevah knew Heaven could be so much lake Texas," he drawled.

"My friend," said the gatekeeper, "This ain't Heaven."

Rich folks miss at least one of life's great thrills — paying the last installment.



THE BIOLOGY MAINTENANCE DEPARTMENT has designed and installed a beautiful safety bulletin board in Building 9208. The board reveals the safety meeting topic of the month; safety committee members for the month; injury-free man-hour records for the plant and shop; a safety slogan; and the safety award value to date for the group. It is inspected above by A. D. Nine, maintenance planner; and Dan Stroud, superintendent of Process Maintenance, and Jay Holzknacht, craft foreman. Nine and Holzknacht designed the attractive board.

Maintenance Department Is Safety-Minded

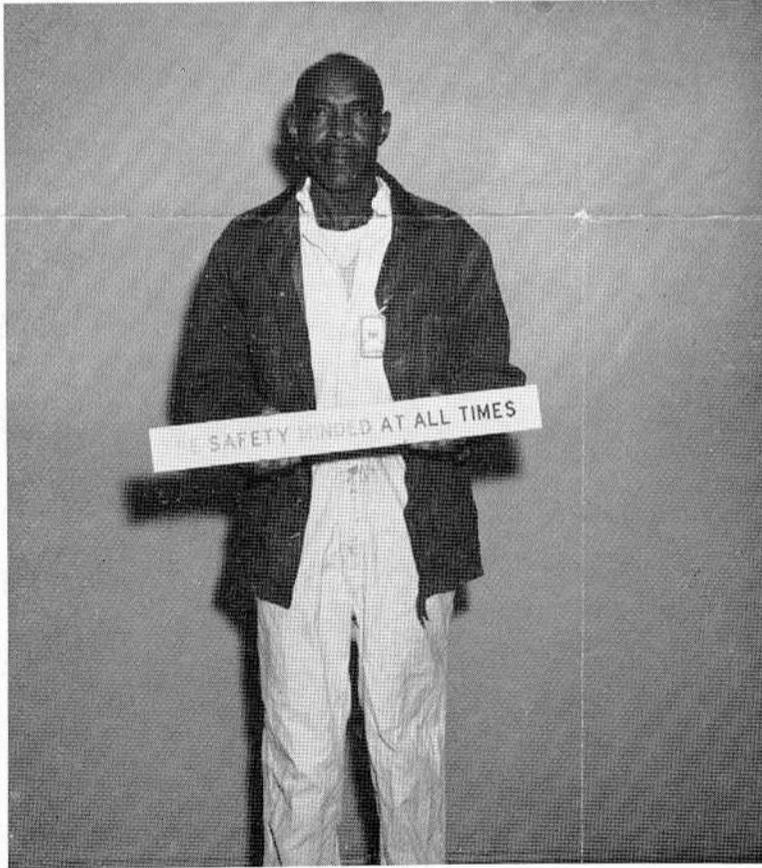
The various shop groups in Y-12's Maintenance Division are constantly seeking new ways to stimulate safety interest and motivate people in working safely.

Biology Maintenance, in Process Maintenance, recently designed and installed a new safety bulletin board in Building 9208. This colorful board contains a lot of safety information pertinent to the group's activities. It reveals the safety meeting topic of the month; safety committee members which also change each month; injury-free man-hour records for the plant and the safety award value to date for the group. (The new Group Incentive portion of the safety award plan, which went into effect the 1st of January, entitles each eligible employee in a group to an award for the successful completion of a group award period without a serious or disabling injury. This is in addition to the hours accumulated by the plant as a whole. The group allows 50¢ for each month worked without a disabling injury . . . while the plant-wide plan allows \$1 for each period of 1,000,000 man-hours worked without a lost-time injury.)

Three colorful fluorescent lights are installed on the board indicating the present safety conditions. A green light indicates ideal safety conditions. A yellow light indicates a need for caution that a minor injury has occurred. A red light indicates that a serious injury has been sustained in the group or in the plant.

A tape recorder will be used in conjunction with the board to relay safety messages, safety announcements, hazard warnings, and other pertinent information that needs conveying to the shop employees.

A recent contest was conducted to select a good permanent safety slogan to be posted on the new board. More than 70 entries were



TOM MCCOY, BIOLOGY MAINTENANCE, came up with the winning entry when the department started to search for a slogan (permanent one, that is) for their newly designed and decorated bulletin board. McCoy's entry, 'Be Safety Minded At All Times' was voted best from more than 70 slogans submitted.

submitted . . . then voted on by the entire group. Tom McCoy's slogan "Be Safety-Minded At All Times" was declared the winner.

McCoy received a handsome socket wrench set as his reward for sending in the winning entry.

The original board was designed by A. D. Nine, maintenance planner, and Jay Holzknacht, craft foreman in the department. Several other maintenance men helped fabricate and install the board.

The safety efforts in the department has the firm support of Dan D. Stroud, department superintendent, as well as other supervisory men in the department.

The end must justify the means.

Sunglasses Can Be Harmful Says NSPB

The National Society for the Prevention of Blindness warns that wearing sunglasses can cause loss of visibility and increase the difficulty of distinguishing between contrasting colors. Sunglasses should be removed before driving home at dusk to allow the driver to clearly observe important road signs necessary for safe driving.

FROZEN NUTS

Nut meats of all kinds keep well in the deep freezer. Home economists, however, do not recommend the freezing of salted nuts.

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Rollmasters Roll Hi On C Alleys

The Rollmasters (who lost the first half roll-off to the Big Five) seem to be intent on removing such a possibility for the C Bowling League's second half. They downed the Sunflowers last week for three to lengthen their lead.

The Big Five moved up by taking four from the Badgers. Also posting four were the Parbusters by the Royal Flush.

Winning three were the Fireballs superior to the Invalids, the HiLifers by the Rounders, and the Instrument Engineers around the Jokers Five.

Norm Jarvis, Big Five, rolled a single of 244 scratch, 256 handicap. Bill Ladd, Rollmasters, put a 619 scratch series down; and J. E. Cheek, Parbusters, polled a 654 handicap series.

The HiLifers had high singles . . . 878 scratch, 1022 handicap . . . and the Big Five bent the records with series of 2632 scratch, 2977 handicap.

League standings follow:

Team	W	L
Rollmasters	24	8
Big Five	18	10
Sunflowers	19	13
Parbusters	18	14
Fireballs	17	15
HiLifers	16½	15½
Badgers	16	16
Rounders	16	16
Instrument Engineers	15	17
Jokers Five	13	15
Invalids	8½	23½
Royal Flush	7	25

Ocean Systems

Continued from Page 1
in the territories of Japan, including Okinawa, as well as elsewhere in the world. Initially, OSI will conduct an extensive training program covering ocean technology and techniques in the U.S. for Japanese personnel with OSJ.

The new president and chief executive officer of OSJ is E. Tsuda, director of Sumitomo Shoji, and formerly managing director of the company. The executive vice president and chief operating officer is E. A. Wardwell, vice president and manager of OSI's Systems Division. Mr. Wardwell will transfer to Ocean Systems Japan about March 1.

Each of the founding companies will designate four members to the board of directors which will include Messrs. Tsuda and Wardwell.

LOSING IS LOSING

Winning may not be everything; but losing is nothing.



"So I don't own any stock—Do you own any of those teams you root for?"



February passes the half-way mark and signs of Spring can soon be seen. Seen around Y-12 are more veterans for Union Carbide Corporation. Congratulations. **25 YEARS**

Frankie H. Goss, Building Services Department, February 19.

Marley W. Cooper, Chemical Services, February 19.

Herschel K. Bailey Jr., Research Services, February 19.

Alvie H. Gough, Utilities Administration, February 24.

15 YEARS

William F. Griffith, Buildings, Grounds and Maintenance Shops, February 19.

Walter F. Stancell, Buildings, Grounds and Maintenance Shops, February 21.

William O. Peterson, Assembly Operations, February 21.

Aubrey L. Donald, General Weld Shop, February 22.

Alvin E. Parson, Tool Grinding, February 22.

Lucian P. Wynns Jr., Facilities Engineering, February 22.

David C. Martin Jr., Electrical and Electronics Department, February 22.

Charles E. McMahan, Dimensional Inspection, February 22.

Carol B. Smith, General Machine Shop, February 22.

Virgil H. Smallen, Assembly Operations, February 24.

Raymond O. Davis, Buildings, Grounds and Maintenance Shops, February 25.

10 YEARS

Willis D. Davis, Alpha Five Machine Shop, February 24.

William R. McManus, Electrical and Electronics Department, February 24.

Jean Paul Parker, H-2 and F-Area Shops, February 24.

Health Physics

Continued from Page 1
Editor from 1958 to 1963.

This principle interests center on the quantitative aspects of ecology and the application of electronic devices and formal mathematical and statistical analysis to ecology. He has published about 75 papers in various scientific journals and is currently completing two books on ecology.

The technical session will begin at 7:30 p.m. preceded by a social hour at 5:30 p.m. and a dinner at 6:30 p.m. Chapter members, their guests and anyone interested in this field are encouraged to attend. Dinner reservations may be made by contacting D. J. Nelson, extension 3-6841. Reservations are not required for attendance at the technical session.

WHAT WE ARE

A newspaper has been described as an instrument pointing out the faults of the world, and the typographical errors of the staff.