



— Y-12 BULLETIN

A Newspaper For Y-12 Employees of Union Carbide Corporation—Nuclear Division

VOL. 19 — NO. 14

OAK RIDGE, TENNESSEE

Wednesday, April 7, 1965

Core Components For Fast Burst Reactor At AEC Nevada Test Site Are Made In Y-12

Y-12 has fabricated core components for the Super Kukla reactor, a fast neutron burst reactor to be used in experiments at the United States Atomic Energy Commission's Nevada Test Site.

The Lawrence Radiation Laboratory, Livermore, California, will use the reactor in experiments requiring the irradiation of samples by a large burst of neutrons within a very short time period.

The Reactor core consists of 17 rings or plates of enriched uranium-molybdenum alloy. Each ring is 30 inches in overall diameter, with an inner diameter of 18 inches and a thickness of approxi-

mately two inches. Nine such rings, held together by bolts, form the upper part of the cylindrical core. Eight rings, also joined by bolts, form the bottom portion of the core.

The top of the core cylinder is a six-inch-thick tungsten plate which reflects neutrons and supports the container in which samples are irradiated.

When the two portions of the core are driven together hydraulically-operated rods, the reactor goes into operation for a brief period of time. It can provide one quadrillion (1,000,000,000,000,000) neutrons per square centimeter.

Fabrication of the uranium fuel plates required exacting procedures for control of uranium enrichment, alloy level and impurities. Inspection of the fuel was performed by various precision techniques, including X-ray ultrasonic methods.

Y-12 was selected to perform the work because of our experience in uranium fabrication and the availability of unique equipment necessary to meet the specifications.

NMR Spectroscopy Will Be Discussed At Chemistry Meet

The East Tennessee Analytical Chemistry Group will meet next Thursday, April 15, at 8 p.m. in Room 18 of the Oak Ridge Institute of Nuclear Studies Training Building, Oak Ridge. Special speaker will be Dr. Lloyd M. Jackman, professor of organic chemistry at the University of Melbourne, and presently associated with the department of chemistry at the University of Tennessee as Visiting Distinguished Scientist.

Dr. Jackman will discuss the application of Nuclear Magnetic Resonance (NMR) Spectroscopy as an analytical tool, emphasizing quantitative as well as qualitative analysis.

The Melbourne professor has held the Beit Research Fellowship at the University of London and later served as an assistant lecturer and lecturer there. He was promoted to Reader in Organic Chemistry in 1960. In 1962, he returned to Australia to become professor of organic chemistry at Melbourne.

It is anticipated that a large audience will be present to welcome Dr. Jackman to this section. An informal dinner will be held at the Holiday Inn at 6:30 p.m. Guests may order their dinner from the menu.

Hay, Logs Offered In Sealed Bid Sale

Y-12ers wishing to make hay while the sun shines will be interested in Property Sales' Proposal on Sale No. UCNC-787. The hay in and around the plant is always cut on a bid basis. In the past, employees have often successfully bid on cutting the hay to feed the old cows during the winter.

The entire acres cover about 107.4 . . . and that's a lot of hay! Inspection maps are available at the Property Sales Office, Cheyenne Hall.

Property Sales is also accepting bids on some stacked logs, cut in 20 to 31 inch lengths, located near the Laboratory Office of the UT-AEC building on Bethel Valley Road. The entire lot is approximately 180 feet long by four feet high. These logs must be removed within 30 days of the date the bid award is made.

Good Housekeeping Is Theme As Y-12 Sets April 18 Through 24 As Spring Clean-up Week

Toward the end of winter the world about us looks its dreariest. Our homes, our cars, and our plant looks a little shabby. Everything seems to have slipped just a little during the onslaught of winter. Hence, Spring Clean-Up.

Nature first starts the ball rolling by sprucing up on her own . . . putting on the fresh green and other colors. The rest is up to us.

Poor housekeeping often sets the stage for disaster. Fires feed on poor housekeeping.

The Week of April 18 through the 24th has been officially designated Spring Clean-Up Week in Y-12.

20 Areas Designated

The entire plant has been broken down into 20 areas . . . with inspection marshals appointed for each section. (Their initial meeting was set for today, April 7.)

Inspection will be made before and after Spring Clean-Up Week to see if recommendations by marshals have been carried out. Below are listed 10 rules for good housekeeping:

1. Areas in and around buildings should be kept clear of all plant wastes and debris.
2. Mark storage spaces with painted limit lines and confine stock to such areas.
3. Aisleways should be plainly marked and kept free of obstruction at all times.
4. Store goods in a manner that will not obstruct sprinkler distribution or interfere with proper functioning of fire doors.
5. Remove empty and unused containers, boxes, shipping crates, barrels, and drums promptly.
6. Provide approved metal receptacles for disposal of all waste materials.
7. Clean out concealed spaces, attics, closets and storage cabinets, spaces beneath floors, elevator shafts, etc.
8. Establish inter-departmental good housekeeping contests with prize awards or other recognition.
9. Maintain regular checks or inspections with reports on conditions found and corrections made.
10. Remember, proper adminis-



tration and enforcement of the program is vital.

Remember, behind each fire is a basic cause plus combustibles. Poor housekeeping is one of the most frequent contributing factors. An open container of trash, or a pile of trash, containing ordinary combustibles is a fire just waiting to happen. All it needs to get going is a spark from a cutting or welding torch, a contributing act of a careless smoker, or any other source of ignition.

1964 Big Success

Last year's Spring Clean-Up activities were the most successful ever tried in the plant. A repeat is expected again this year, with basically the same pattern.

Security also says it's a good time to get rid of those unneeded classified documents.

The Salvage Department stands ready to haul away any unnecessary trash you may have amassed. Just give them a ring, on extension 3-7972.

April Safety meetings through-

SAFETY SCOREBOARD
 The Y-12 Plant Has
 Operated
124 Days Or
3,696,000 Man-Hours
 (Unofficial Estimate)
 Without A Disabling
 Injury
Through April 4
 Phone 3-7755
 For Daily Report
 On Accident-Free Hours

out the plant will emphasize the importance of cleaning up the old joint . . . and the essentials of good housekeeping.

As in production or anything Y-12 endeavors to accomplish, individual effort is vital to the success of Spring Clean-Up.

Help Mother Nature

It's not often we humans have a chance to give old Mother Nature a helping hand. But with Spring Clean-Up there's a golden opportunity to strike a blow for a brighter looking world . . . and, more importantly, a safer place to work. Good housekeeping is the key.

Marshals representing every division and area in the plant will be visiting your area next week. Then they'll be back later to see what you have accomplished. Don't disappoint them.

Instrument Society Hears Y-12ers Tonight

John F. Ellis and Raymond D. Alexander are principal speakers at tonight's meeting of the Oak Ridge Section of the Instrument Society of America. They will speak on "The Necessity of Standards and their Relationship to Industry."

The ISA meeting will be held at the Clintonian Restaurant, dinner at 7:15, and the technical session set for 8.

Badge Exchange Is Still In Progress

Badge exchange is still in progress. Have you traded yours yet? The new yellow-bordered badges will remain in the racks until next Wednesday, April 14. After that you won't be able to swap at the portals.

Who Dun It?

Two small boys were staring at a wildly abstract painting in a modern art exhibit. One of the youngsters turned and exclaimed, "Let's get out of here before they say we did it!"



BY DAWN'S EARLY LIGHT Y-12ers gathered last week to pick up their safety awards for cumulative periods of 1964. Gleaming Revere ware sets, Corning Ware, handsome transistor radios, rods and reels, electric mixers, blenders, skill saws, camp stoves, hair-dryers,

binoculars, luggage sets, card tables, etc. were all added to the many uses of employees' homes. In what looked like a record, most employees picked their awards up the first day of distribution . . . a testimony to the true value of the awards. More than three and

one-half million man-hours have been worked safely thus far in 1965. Let's keep the string of accident-free days going . . . not for another award . . . but for the reward of working safely without injury and pain. Safety always pays!

The Bulletin

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



NUCLEAR DIVISION

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Oak Ridge Products In Industrial Fair

Clinch-Powell River Group Plans Show

Evan Means, president of the Clinch and Powell River Valley Association, invites Union Carbide employees to a big industrial exhibit coming up. The products of the Valley will be displayed at a combination industrial exhibit and inventors fair on Saturday, May 1, at the Holiday Inn, Oak Ridge.

This will be the first time that the public will be able to see the local goods being produced outside the Atomic Energy Commission plants. Oak Ridge's atom-inspired industries will be out in force. These include Oak Ridge Technical Enterprises Corporation (ORTEC); Radiation Instrument Development (RIDL); Tenelec, Fairport, Oak Ridge Atom Industries, American Nuclear and others. Products now being manufactured in Oak Ridge vary from souvenirs and sofas to complicated instruments and machine parts.

The show is being held in connection with a progress meeting, when industrial development organizations of the Clinch-Powell watershed will report on their activities of the past year. In an effort to bring inventors and investors together for their mutual benefit, Lloyd Alexander, Reactor Projects Division, will conduct a seminar in the afternoon.

Reports of the industrial groups will be given at a luncheon, at which time the principal speaker will be a member of the Governor's staff.

Members of the committee in charge of the event are Lloyd Alexander, seminar; Don Lane, RIDL, coordinating exhibits; B. H. Thompson, luncheon and coffee breaks, and Ralph Rose and John Clark, general arrangements.

The exhibits will be open to the public from 10 a.m. to noon.

Carbide Camera Club Meets Next Tuesday

The regular meeting of the Carbide Camera Club will be held next Tuesday, April 13. It is set in the Club room at Cheyenne Hall, Oak Ridge. A program entitled "A Travelogue in Color," is planned. It is a taped commentary slide show designed to help the photographer make better vacation and travel pictures.

April's competition is announced as "Children" in both color and black and white.

DEHYDRATED MAMMALS

The rat can live longer than any other mammal without water.



Mr. and Mrs. Norman E. Pickens



Mrs. John Patrick Sallee

Lenox Quartet Is Offered Saturday

The final concert of the Oak Ridge Civic Music Association Chamber Series will be held Saturday. The famed Lenox Quartet will be heard at 8:15, April 10, at the Oak Ridge Playhouse. The Quartet, one of the busiest and most widely heralded groups in concert, is known for its versatility and facility for sensitive interpretation and keen perception of every idiom of the chamber music field.

Members of the quartet include Peter Marsh, violin; Theodora Mantz, violin; Paul Hersh, viola; and Donald McCall, cello. They will play Mozart's Quartet in C Major, Elliot Carter's Quartet No. 2, and Beethoven's Quartet in C Major.

The group was formed in Lenox home of the famed "Tanglewood" festival. They have toured Europe, playing at the Spoleto Festival, and the Aspen Music Festival in this country. Recitals at New York's Town Hall, the University of California, the San Francisco Museum of Art and in cities like Chicago, Washington, Baltimore, Philadelphia have established them.

Tickets for Saturday's concert will be available at the box office.



PICKENS—KENDIG

Of interest to many Y-12ers was the Saturday, March 20 wedding of Miss Brenda Carol Kendig to Mr. Norman Earle Pickens. The 7:30 rites were performed at the First United Presbyterian Church, with the Reverend W. C. Summar and Dr. S. E. Howie officiating.

The bride is the daughter of Mr. and Mrs. Avery Franklin Kendig, 112 Georgia Avenue, Oak Ridge. The groom is the son of Mrs. N. D. Pickens, Oak Ridge, and the late Mr. Pickens. The bride's father is in Y-12's Salvage Department, and the groom's mother is in Radiation Safety.

The bride wore a gown of silk mist taffeta with Alencon lace re-embroidered with seed pearls. Her veil of English silk illusion was held by a closed pillbox of Alencon lace. She carried a bouquet of orchids and white roses.

Miss Cay Curtright was maid of honor and bridesmaids were Misses Jo Tays, and Carol Ann Rothermel, Oak Ridge. Sharon Dake, cousin of the bride, Lenoir City, was flower girl.

The groom's brother, David S. Pickens, served as his best man. Ushers were George S. Boswell, Steve Mims, Howie Irwin, Oak Ridge and Pat Cromer, Seneca, South Carolina, cousin of the groom.

A reception honored the couple at the church immediately following the ceremony.

After a wedding trip to Gatlinburg, the couple will reside in Easton, Pennsylvania, where Mr. Pickens will enter Johns Hopkins University School of Medicine in September.

SALLEE—MILLS

Mr. and Mrs. Alonzo Mills, 2925 Arbor Place, Knoxville, announce the wedding of their daughter Miss Judith Diane Mills. She was married to Mr. John Patrick Sallee, Saturday, March 20, at the Arlington Baptist Church. The Reverend Paul Dennington, pastor, officiated.

The father of the bride is in Y-12's Electrical Department.

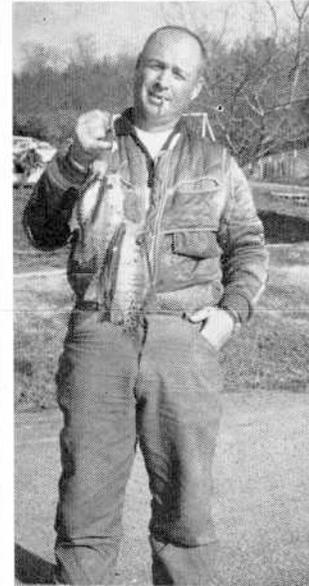
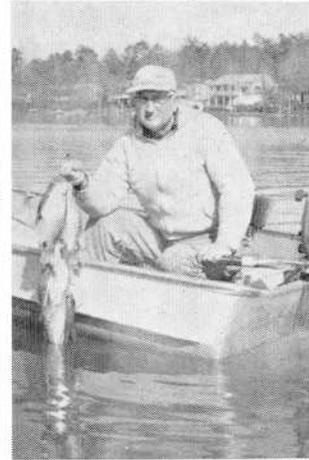
The bride's gown was fashioned of white peau de soie and Chantilly lace, designed with a fitted bodice and scalloped neckline edged in lace with accents of seed pearls. Her veil of illusion was held by a rose cluster, and the bouquet consisted of sweetheart roses centered with a white orchid on a white Bible. The Bible was a gift of the Young Women's Auxiliary of Arlington Baptist Church.

Mrs. Michael F. Baker, Oak Ridge, cousin of the bride, was matron of honor. Bridesmaids were Mrs. Jerry Ross, sister of the groom, Memphis; Miss Sharon Murphy and Mrs. John C. McNeil, Knoxville. Miss Janet Mills was her sister's junior bridesmaid.

Ushers for the groom were Michael Baker, Don Holt, Harry O'Brien, Oak Ridge; and Jerry Ross, Memphis, the groom's brother-in-law. His father was best man.

The bride is a graduate of the University of Tennessee, a member of Sigma Delta Pi honorary society. The group graduated from the Georgia Institute of Technology, and is employed at Oak Ridge National Laboratory.

The couple is at home on Purdue Avenue, Oak Ridge.



E, F, G, H And J Shift Rodeo Brings Out 55 Hardy Souls Despite Cold, Snow

E, F, G, H and J Shiftmen went right on with their big rodeo... held two days March 20 and 27. Despite the chill and blue snow of early Spring, 55 hardy souls braved the weather to appear at Blue Springs.

Prize winners were Pete Grubb and H. M. Monday, largemouth bass; H. N. Benninghoff, smallmouth; C. Waldrop, George Everett, S. R. Anderson and Emmett Moore, crappie; W. H. Rollen,

ream; W. E. Webb, stripe; Finley West, red-eye; and Lonnie Nelson, rough fish. The big dock prize went to B. E. Burdette.

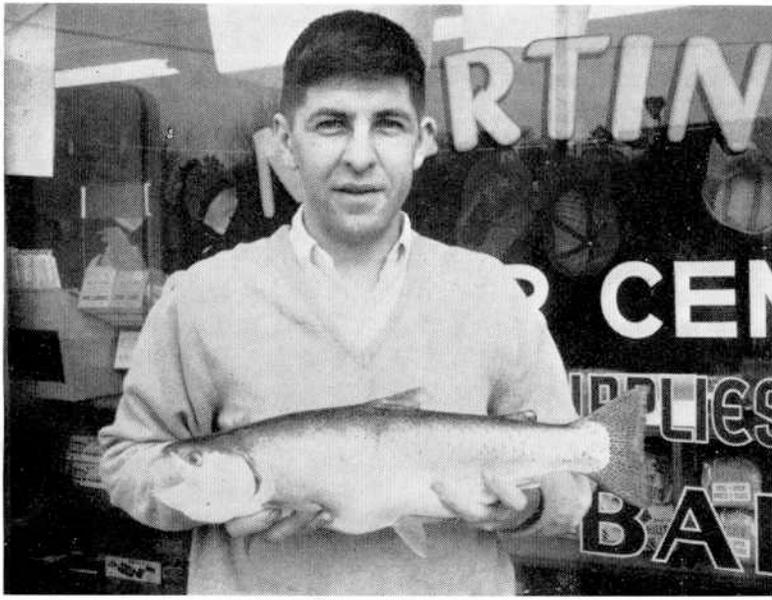
The Shifters are planning a big Easter ham shoot, to be held the Saturday after Good Friday.

Details, later.

Cheap Skate

The word silhouette was first used in the 18th century. Inexpensive black profile portraits of the day were nicknamed silhouettes after Etienne de Silhouette. His harsh economy measures as public finance controller under Louis XV caused wits to use his name for anything cheap.

**Annual Spring
Clean-Up Week
April 18-24**



JAMES TROSKO, FISHERMAN PAR EXCELLENCE, brought in one of the nicest-looking rainbow trouts seen in a long while. He got this one in the Clinch (where else?) and makes a strong entry in the annual fishing rodeo with it. (And to think, the last time we went fishing all we caught was a cold.)

Classic Develops Tight Alley Race

Still no breathing room exists at the top of the Classic Bowling league. The Bumpers, Tigers and Rippers are right up there with other teams moving in with points of the prize.

Last week the Rebels took the only four-point win of the day from the Wasps. Three point wins went to the Rippers over the Smelters, the All Stars past the Cubs, the Has Beens better than the Wolves, the Eightballs over the Tigers, the Swingsters swinging past the Screwballs, the Markers outmarking the Playboys and the Splinters over the Bumpers.

Sewell Brown, Swingsters, had a terrific single game of 248 scratch, 266 handicap. Jack McLendon, Has Beens, likewise in series counts. His 580 scratch, 649 handicap were tops.

The Swingsters took singles . . . 948 scratch, 1048 handicap . . . and their scratch series of 2602 was high also. The Has Beens moved in on the handicap series honors with a 2964.

League standings follow:

Team	W	L
Bumpers	33½	18½
Tigers	33	19
Rippers	33	19
All Stars	31½	20½
Has Beens	29½	22½
Playboys	28	24
Rebels	27	25
Eightballs	26	26
Swingsters	26	26
Markers	25	27
Splinters	24	28
Cubs	22	30
Wasps	21½	30½
Wolves	20	32
Screwballs	18	34
Smelters	18	34

A Shift Party Is Big Success

A party usually brings out the smiles, and there were lots of happy smiling faces (110 to be exact) at A Shift's Spring party, held Monday, March 29, in the Coral Room of the Ridge Recreation Hall.

Those leaving with the broadest smiles were, of course, those carrying home the very fine prizes. Pat Watson, Billy Schabot, Bill Hall, J. W. Gose, Doris Mathews, Ronnie Mathes, Evla Crowder, H. R. Cannon, C. L. Thompson, Ivy Potter, Clinton Queen, W. B. Crowder, Alan McLain, Bob Schabot, W. M. Woodward, Mrs. Elwood Cox and Mrs. Minnie Brothers were among some of the game winners. C. J. "Lucky" Maddux Jr. drew the big door prize. Carolyn Mathes was the winner of the loser's game, and Larry Pyatt won the door receipts for the final game.

Recreation



Sunday, April 11
SKEET LEAGUE, 1 p.m., Oak Ridge Sportsman's Association firing range.

Monday, April 12
BOWLING: C League, 5:45 p.m., Ark Lanes.
PING PONG: 7:30 p.m., Wildcats Den.

Tuesday, April 13
PHYSICAL FITNESS: 7:30 p.m., Oak Ridge High School.

Wednesday, April 14
PISTOL LEAGUE, 7:30 p.m., Anderson County Gun Club.

Thursday, April 15
BOWLING: Classic League, 5:45 p.m., Ark Lanes.
RIFLE LEAGUE, 7:30 p.m., Anderson County Gun Club, Clinton.

Friday, April 16
GOOD FRIDAY — Holiday for Y-12ers.

Saturday, April 17
HAM SHOOT, E, F, G, H & J Shifts . . . All Y-12ers welcome, 10 a.m., Oak Ridge Sportsman's Association.

Golf Schedules Are Available For Summer

Golf schedules for the five tournaments this summer are available in the Recreation Office. Also rules of the road are included. If you did not get one in the mail, just call 3-7109 and tell them. The first big golf play is set for Saturday, April 24, at Wallace Hills Golf Course, Maryville. An application for tee-off times will be included in next week's Bulletin.



"Guess I'll have to find a new place to keep my lunch."

Y-12ers Place High In All-Plant Tilt

Bowlers End Season With Big Tournament

Action March 27 and 28 brought to the foreground the X-Y's in the All Carbide Bowling Tournament. The X-Y's took high scratch scoring with a total of 2783. The team consists of C. B. Stokes, Allen True, Stan Smith, Clayton Mathis and Don Branson.

In handicap scoring, it was the Damagers, ORNL, leading the pack with a 3130 score. Other teams followed: Cellar Dwellers, ORNL, 3002; City Slickers, ORGDP, 2994; Badgers, Y-12, 2983; Rebels "A", ORNL & X-Y's, 2981; Big Five, Y-12, 2973; Strikers Number Two, Y-12, 2963; and the Rebels, Y-12, 2950.

Final action this last week-end April 3 and 4, brought individual winners from the three plants to the head-line status.

In singles, doubles play last week-end, April 3, 4, Tom Pappas gleaned honors for Y-12, taking handicap tops in singles with a 698. He was followed by Stan Smith, who took a 680. C. W. Castle, K-25, took first scratch honors with a 640.

All Events counting found Gene Moore, ORNL, taking first place honors with a 1734. Tom Overton, Y-12, was handicap champ, rolling a 1930. Tom Pappas came in second with a 1916.

Lou Anfinson brought women's honors back to the plant with a 1585 scratch tally. K-25's Mary Foley was handicap champ with an 1829.

Other female bowlers from Y-12 placing high in count were Anfinson who took a 550 scratch in singles and Ella Stansell who rolled a 670 in singles.

A total of 51 team vied in the All Carbide Competition for men . . . with 100 doubles, 200 singles, and 178 registering in All Events competition.

A total of 17 women teams competed . . . 34 doubles, 68 singles and 65 entered in All Events.

Huff Again Leads Riflemen From Y-12

Jack Huff led Y-12 riflemen for the second week in the fourth match of the 22 calibre rifle league. His 294.260 handicap score was high, as was his 294 total scratch score. In handicap firing, B. C. Sims was second with 289.581. Dave DeWalt's 281 scratch score was second.

The Y-12 team scored a total of 1393 scratch, 1434.548 handicap in all firings. ORNL took a 1439, 1453.975 score and the Independents tallied 857, 576.916.

League standings follow:

Team	Total Points
ORNL	18
Y-12	12
Independents	6

Arts Calendar

April 8 — DRAMA — "Make Haste to be Kind," Beth El Center, 8:20.

April 10 — CHAMBER MUSIC CONCERT — Lenox Quartet, Oak Ridge Playhouse, 8:15 p.m.

April 10 and 11 — "Make Haste to be Kind"

April 11 — COSMOPOLITAN CLUB — Angelo Ferrari and Enzo Ricci will speak on Southern South America, 8 p.m., Cheyenne Hall Meeting Room.

April 13 — ART EXHIBIT, Oils by Leonard Maurer 2 to 4 p.m., Art Center.

April 14 — Maurer Oils, 3 to 6 p.m., Art Center.



THE ALLEY OOPS won the Mixed League's second half of bowling last week. They are seen above prior to their roll-off today with the Twisters, who took first half honors in second place. From left are A. V. Bible, Ann Detheridge, Gail Culton, and Charlie Gaylor. Not pictured are Delores Dyer and Bill Wright.

Alley Oops Take Second Place In Mixed Bowling; Must Battle Twisters Tonight

The Goofers finished the Mixed League in grand fashion last week by taking four from the Bingos. Thus, they won the first and second half of the league. The Alley Oops took second place by swamping the Chumps for three and one-half points. Tonight they roll the Twisters in a play-off for second-half honors.

The Turtles eliminated the Alley Cats from competition by beating them for four. The Blue Angels, in fourth place, took three from the Twisters.

Muriel Ferguson, Bingos, rolled a 201 scratch game, 231 handicap . . . and series of 512, 602. George Cantrell, Turtles, took a 214 scratch game . . . and C. G. Gaylor, Goofers, rolled a 242 handicap single. His 572 scratch and 699 handicap score in series play were tops also.

The Goofers took a high single

scratch score of 631. The Alley Oops and Chumps tied for handicap singles . . . each with 786. The Goofers were best in series action with 1862 scratch and 2319 handicap.

Final standings follow:

Team	W	L
Goofers	45	11
Alley Oops	37½	18½
Alley Cats	31	25
Blue Angels	28	28
Chumps	27½	28½
Turtles	25	31
Twisters	21	35
Bingos	13	43

C Bowling Goes Into April Rolling

The C Bowling League held its own last week. Both teams in the forefront took three points from opponents. The Big Five decimated the Five Roses and the Rounders romped past the Parbusters. Four point wins went the rest of the way as the Strikers struck down the Lucky Strikes, the Rodders rammed past the Hookers, the Shud-A-Beens slammed the Sunflowers and the Badgers bounced past the Hilifers.

C. J. Roesch, Badgers, rolled a 222 single scratch game. M. C. Bays, Parbusters, took a 252 handicap single. J. F. May, Rodders, came through to win high series for the week, rolling a 581 scratch, 650 handicap score.

The Rounders took scratch honors, with singles of 930 and series scores of 2598. The Strikers struck handicap highs of 1028 in singles . . . and the Rodders took a 2975 handicap series.

League standings follow:

Team	W	L
Big Five	35	17
Rounders	33	19
Strikers	31	21
Rodders	30½	21½
Hilifers	29	23
Shud-A-Beens	25	27
Parbusters	24	28
Five Roses	23	29
Hookers	22	30
Lucky Strikes	20½	31½
Badgers	20	32
Sunflowers	19	33



Ride wanted from 115 Lansing Road (West End), Oak Ridge, to Central Portal, straight day. Ronald Crabtree, plant phone 3-5481, home phone Oak Ridge 483-9920.

Annual Spring Clean-Up Week
April 18-24

**UNION CARBIDE CORPORATION
NUCLEAR DIVISION**



Post Office Box Y
Oak Ridge, Tennessee—37831

RETURN POSTAGE GUARANTEED

BULK RATE
U. S. Postage
PAID
Oak Ridge, Tenn.
Permit No. 71



Robert M. Evans

Battelle's Evans Is Welding Group Speaker

Subject Is Brazing And Diffusion Bonding

The Northeast Tennessee Section of the American Welding Society will hold its regular monthly meeting next Tuesday, April 13, at the Oak Terrace, Oak Ridge. The speaker will be Robert M. Evans, senior engineer of the metals joining division, Battelle Memorial Institute. He will discuss "Recent Developments in Brazing and Diffusion Bonding."

Evans holds a BS degree in metallurgical engineering from Ohio State University. His experiences include research on the development of mineral-base lubricants for rolling and tinning of steel, development of bronze casting and coloring procedures, and conducting and directing research on brazing and soldering problems.

The social hour next Tuesday begins at 6:30 p.m., with dinner at 7 and the technical meeting at 8.

Linde Increases Oxygen Production

The on-site supply of oxygen for Great Lakes Steel Corporation at Ecorse, Michigan, will be increased 500 tons per day by Union Carbide's Linde Division. The expansion project, scheduled for completion the latter part of 1965, will boost production capacity to a total of 1,350 tons per day.

This increase in oxygen producing capacity to Great Lakes Steel, a division of National Steel Corporation, makes the Ecorse plant one of the largest consumers of oxygen in the steel industry. The plant uses oxygen both in open hearth furnaces as well as in basic oxygen steel-making vessels that are the largest in the steel industry.

Union Carbide's Linde Division has been supplying on-site oxygen to Great Lakes Steel since 1960. At that time, Linde installed a 500 ton-per-day on-site plant to supply the oxygen roof jet requirements of the open hearth furnace. Since then, Linde has built an additional air separation facility to supply the company's basic oxygen steel-making operations.

Johnson Daughter Is Recent Graduate



Patricia Ann Johnson

Miss Patricia Ann Johnson, daughter of Mr. and Mrs. Ralph L. Johnson (he's in Y-12's Guard Department) is a recent graduate of the University of Tennessee's Dental Hygiene School. She was capped Sunday, March 21. Pat is presently employed as a dental hygiene extern with the Tennessee Department of Public Health.

Her parents, Route 9, Sevierville Pike, Knoxville, announce her engagement to Mr. Larry Edward Herron who is stationed in Ft. Worth, Texas, with the United States Air Force.

A June date will be selected for the wedding.

**Annual Spring
Clean-Up Week
April 18-24**



The voices of Spring bring more celebrations from Y-12ers of important milestones with Union Carbide Corporation. Congratulations.

20 YEARS

Rosie L. Martin, Janitors Department, April 8.

Spears P. Valalides, Beta Four Forming, April 9.

Charles D. Maberry, Specifications Control, April 10.

William H. Rice, Civil and Architectural Engineering, April 12.

15 YEARS

Gordon W. Brewer, General Metal Fabrication Shop, April 13.

10 YEARS

Elmer D. Lay, Utilities Administration, April 9.



AREA FIVE MAINTENANCE men honored Webster Hughes who retired March 31 from Y-12 after more than 20 years company service. Mr. Hughes, a native of Gallion, Alabama, now lives at 2101 Leslie Street, Knoxville. He is seen with co-workers fifth from the right on the first row (holding the envelope.)



EARLY RETIREE T. B. CROLEY, standing in center with black suit, is honored by personnel in Metal Preparation. Mr. Croley left Oak Ridge last week for Florida for his retirement days. Fellow workers are seen presenting him with gifts before his departure March 31.

Carbon Products Names New Official

Fred B. O'Mara has been appointed executive vice president of the Carbon Products Division of Union Carbide Corporation, according to an announcement by James R. Johnstone, division president.

O'Mara joined Union Carbide in 1936 as a development engineer at the Carbon Products Division's plant in Niagara Falls, New York. During his career with the division, he has been a salesman working out of Atlanta, Georgia; an assistant division manager first in Dallas, Texas, and after that in the New York office; marketing manager — electrode products in New York; and director of manufacturing in Cleveland. He has been vice president—production of the division since 1960. O'Mara is a graduate of Purdue University, holding a BS degree in chemical engineering from there.

In Service



Marvin D. Bates Jr.

The Marvin D. Bates family, it seems, has quite a stock in the United States Navy. Sons Marvin Jr. and Jerry both serve in the



Jerry Wayne Bates

blue of naval service. Airman apprentice Marvin D. Bates Jr. has departed the United States for a seven-month deployment with the U. S. Sixth Fleet in the Mediterranean.

Airman Apprentice Jerry Wayne Bates is aboard the U.S.S. Lexington.

The navy father is in Y-12's Machine Maintenance, and lives with his family at 103 West Holston Lane, Oak Ridge.

New Film On Plutonium Available From AEC

A new motion picture entitled "Current Methods in Plutonium Fuel Fabrication," is now available for loan to the public from the Atomic Energy Commission's Oak Ridge Operations.

The 30-minute, 16mm film, in color and sound, was produced by the AEC's Hanford (Washington) Atomic Products Operations for showings before technical audiences. It depicts the steps involved in the fabrication of plutonium-uranium oxide ceramic fueled elements at Hanford's Plutonium Fabrication Pilot Plant.

The film may be borrowed free of charge from the Motion Picture Film Library, U. S. Atomic Energy Commission, Oak Ridge, Tennessee.



Katy Kutkost

SEZ:

21 people for sure will have less to do during Spring Clean-Up week . . . thanks to Ed Cothern, Production Engineering.

Ed read that propaganda about cutting paper and put a questionnaire (UCN Form TY-4154) on the 55-page Weekly Special Production Report . . . Lo, and behold, 21 people said they could live without it.

At a nickel a sheet this saves \$3,002.00 a year.

Anybody . . . even you . . . can play this game where everybody wins.

T. J. Stephens, 3-5986, will give you all the questionnaires you need — no charge.

Solid State, Physics Division Hold Seminar

A joint Physics and Solid State Division seminar will be held this week. "The Mossbauer Effect of ⁵⁷Fe on the Surface of Tungsten" will be discussed by John Burton, Carson-Newman College.

The seminar is set for 3:15 p.m. Friday, April 9, in the East Auditorium of ORNL's 4500 building.

Shoot the works for security.