

Pax Vobiscum . . .

“When Abraham sat at his tent-door, according to his custom, waiting to entertain strangers, he espied an old man stooping and leaning on his staff, weary with age and travel, coming toward him, who was an hundred years of age; he received him kindly, washed his feet, provided supper, caused him to sit down; but observing that the old man ate and prayed not, nor begged for a blessing on his meat, asked him why he did not worship the God of heaven. The old man told him that he worshiped the fire only, and acknowledged no no other God; at which answer Abraham grew so zealously angry, that he thrust the old man out of his tent, and exposed him to all the evils of the night and an unguarded condition. When the old man was gone, God called to him and asked him where the stranger was; he replied, ‘I thrust him away because he did not worship thee;’ God answered him, ‘I have suffered him these hundred years, although he dishonored me, and couldst thou not endure him one night, when he gave thee no trouble?’ Upon this, saith the story, Abraham fetched him back again, and gave him hospitable entertainment and wise instruction. Go thou and do likewise, and thy charity will be rewarded by the God of Abraham.”—Jeremy Taylor (1613-1667).

Siren Test Set Sunday, January 4

A regularly held siren test will be scheduled in Y-12 for 9 a.m. Sunday, January 4, 1970. The test will be the attack warning (wail of the siren up and down for three minutes).

Signals on Buildings 9201-3, 9996, 9204-4 and 9213 will be tested. These tests will encompass the attack warning only.

A voice announcement will precede the tests on the plant intercom system. Employees need not leave their work stations Sunday, January 4, for the tests.

CREDIT UNION HOURS

The Y-12 Credit Union will be closed Thursday and Friday, December 25, 26 and January 1, 2.

New Badges Set To Go Up Monday

New badges for the new year, Nay, the new decade! go into the racks Monday, December 29. The solid blue badges will replace the current yellow-bordered badges.

The new quarter's badges will remain in the self-service racks through Wednesday, January 7, 1970. No old badges will be honored at the gates after that!

Employees are requested to pick up their own badges as soon as they can.

NO BULLETIN PLANNED FOR NEXT WEEK

There will be no Bulletin next week, December 31. For the past 25 years, the Bulletin has always skipped this week of issue.

Who are we to break tradition?

Used Property Items For Sale

A ‘Spot Bid’ sale on used government property is now in progress at the Sales Office, off State 58, Building K-722, near K-25.

Included in the sales are used government-owned vehicles and office equipment . . . Chevrolet, Dodge, Ford and Studebaker trucks, White tractor, Plymouth and Ford sedans, Ford Falcon vans, Dodge carryalls; office equipment consisting of adding machines, typewriters, calculators, copiers, etc.

Inspection may be made from 8 a.m. to 4 p.m., Mondays through Fridays, except December 25 and January 1, up to the time the bids are closed for each lot.

Sale to start at 9 a.m., Wednesday, January 21.

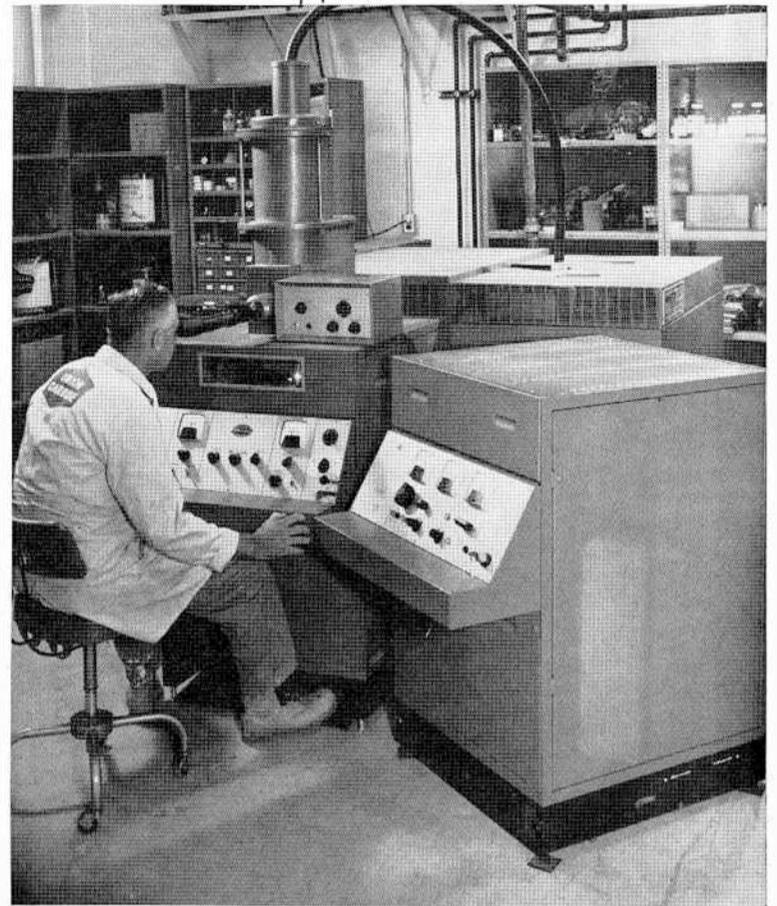
Next Two Thursdays Will Be Holidays

Tomorrow, Thursday, December 25, is an official holiday in Y-12. Likewise for Thursday, January 1.

No employee will be required to work except those whose presence is required for continuous operation or protection of the plant.

SAFETY SCOREBOARD

The Y-12 Plant Has Operated 96 Days Or 3,426,000 Man-Hours (Unofficial Estimate) Through December 21 Without A Disabling Injury SAFETY AT HOME, AT WORK, AT PLAY



AN ELECTRON BEAM WELDING outfit in Y-12 is described in the current issue of Welding Journal. The article was written by Y-12ers R. A. Huber and P. W. Turner and explains the advantages and disadvantages of the electron-beam welding process.

Electron-Beam Welding Is Topic Of Journal Article

Richard A. Huber and Paul W. Turner, Metallurgical Development, have written an article appearing in a current issue of the WELDING JOURNAL. The article describes the development of electron-beam welding and how it is done here in the plant.

The first electron-beam welding unit was installed for development use here, in 1961, the article states. It was an early model, and in 1963 the welding machine shown in the above photograph was installed. It has a 24 x 24 x 30 inch chamber and is rated at 3 kw maximum beam power.

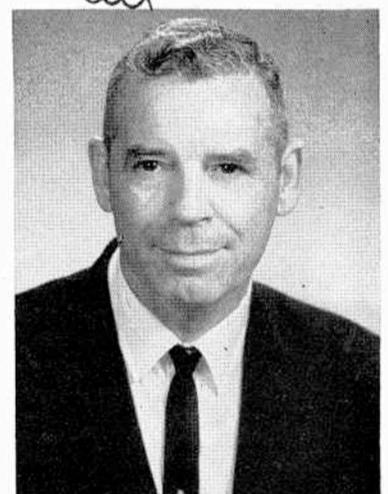
In 1965 a larger unit was purchased, with a 54 x 56 x 108 inch chamber. Two more units were eventually added with chamber capacities of 68 x 68 x 46 and 92 x 108 x 62 inches.

Electron-beam welding is a fusion-joining process in which the workpiece is bombarded with a dense stream of high-velocity electrons, and virtually all of the kinetic energy of the electrons is transformed into heat upon impact.

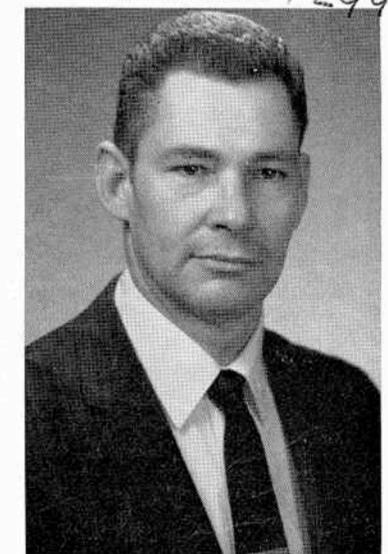
Advantages and disadvantages of the process are described . . . i.e. cost, limitations of the vacuum chamber, weld defects, etc.

Maintenance of the machines is also described.

Applications and the many advantages of the process are looked into. The authors presented information on the welding done here since 1961. Some of the disadvantages which received little attention were discussed. Some unique applications illustrating the versatility of electron-beam welding

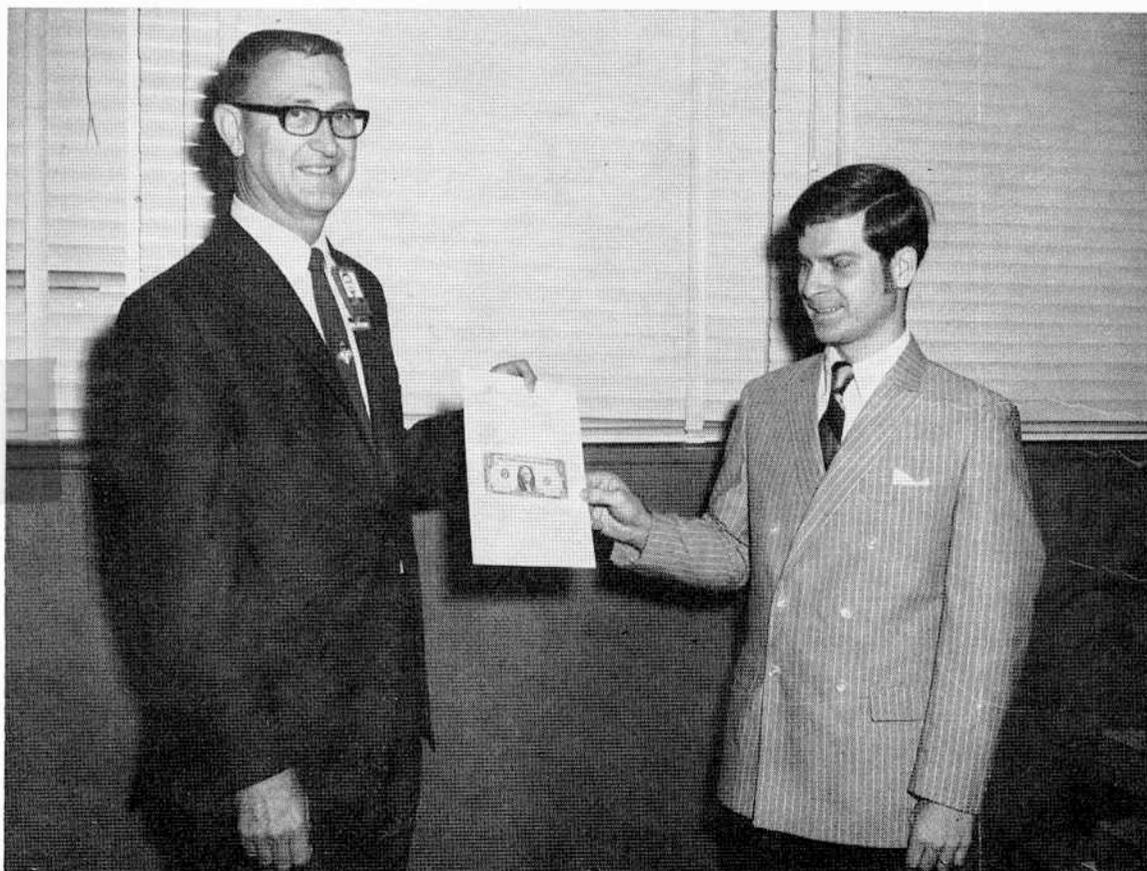


P. W. Turner 129997



R. A. Huber

was described. Typical welding parameters for several materials and thicknesses were presented along with data on some “unweldable” material. Welder maintenance, operator training and the safety of personnel were dealt with briefly.



A PATENT APPLICATION in the name of our government has been filed for C. E. Holcombe Jr.'s development ‘Method for Rejuvenating Refractory Articles.’ Holcombe, right, receives his congratulatory letter, signed by R. F. Hibbs, president of the Nuclear Division, from Harvey Kite, left.



Pack, Beavers Lead Volleyball

Two teams stand undaunted in the Volleyball set after last week's action. Y-12's Old Men began play on Court A downing the Bombers 17-15 and 15-11 . . . the Bombers winning games two and four 15-10 and 15-10. The Set-Ups and ORNL Old Men postponed their match, and the Beavers belted the Boomerangs 15-1, 15-3, 15-7, and 15-0.

On Court B, the K-25 Hawks overcame the Ecobums 15-8, 15-6, 15-9 and 15-7. The K-25 Gashouse Gang galloped past the Beta 4 Commodores 15-4, 15-1, 15-4, and 15-7. The Pack, looking better every week, plastered the Blacksmiths 15-2, 15-3, 15-0 and 15-0.

Team	W	L
The Pack, ORNL	8	0
Beavers, Y-12	8	0
K-25 Hawks	10	2
K-25 Gashouse Gang	8	4
Set-Ups	6	2
Old Men, ORNL	6	2
Ecobums, ORNL	4	8
Blacksmiths, ORNL	3	9
Eagles, Y-12	2	6
Bombers, ORNL	2	10
Boomerangs, ORNL	1	11
Beta 4 Commodores	0	8

Allstun Fires Hi December Skeets

For the second straight month, Y-12ers swept the Skeet Tournament which was fired Sunday, December 7. R. A. Allstun scored high with a 49.323 . . . J. Comolander and B. Etheridge followed closely with scores of 48.813 and 48.384.

Fred Welfare and Bo Glover were firing under handicaps because of previous high scorings.

This marked the end of the current Skeet schedule. Details on new firings will follow shortly.

December handicap scores:

Firer	H'Cap	Score
B. Etheridge, Y-12	48.384	48.384
R. A. Allstun, Y-12	49.323	49.323
B. Searles, Y-12	47.818	47.818
J. Comolander, Y-12	48.813	48.813
P. Bullard, Y-12	48.313	48.313
V. Raaen, K-25	47.038	47.038
B. Powers, Y-12	48.070	48.070
W. Davy Sr., K-25	48.085	48.085
L. Bray, Y-12	47.469	47.469
C. Brewster, Y-12	47.710	47.710
W. Davy Jr., X-10	47.920	47.920
D. Fry, Y-12	45.781	45.781
F. Welfare, X-10	50.000*	50.000*
W. Weathersby, Y-12	48.313	48.313
Bo Glover, Y-12	49.228*	49.228*
F. Patton, Y-12	44.938	44.938

*Under Penalty.

Maintenance Folk Have Tete-A-Tete

The Maintenance Division chose Friday, December 5, for their annual Christmas dinner-dance.

The Oak Ridge Country Club provided the setting for the gala party.

Dancing and general party-talk, table-hopping and general good cheer among all were the main features of the successful party.

Looks like everyone had a good time, doesn't it?

Basketball Men Still Hang Onto Spotless Records

The big Y-12 GBU's opened their guns on the Bombers in Basketball's opener last Monday, blasting them 57 to 38. The youngsters were too much for the Bombers as they completely dominated play from the opening gun. Doug Raymer was hot as a pistol. The GBU's are going to miss ace Ron Gamrot.

The Buccaneers made mince meat of the Meat Loafs as they walloped them 53 to 15. Earl Nall nailed 18 through the basket (11 of them through at the foul line).

Beta 2 Miners out-danced the Aggressors 52 to 28 in final action on the front court Monday. Jump-shooting in the person of big John Scott made a vast difference.

Over on 'tother court, the Isotopes team galloped away from the Hawks 60 to 39, as Ray Vandermeer dropped 17 big points through the bucket.

Lynn Storey led the Hawks with 12.

The Computes took a forfeit win from Road Runners.

The Nads out-classed the Development All Stars 81 to 12 as Ed Bailliff belted two dozen points through.

Wednesday's play opened with the Rolling Bones rolling over the Quarks 54 to 27.

Ken Bell scored an unlucky 13 points . . . Jim Amburgey and Pete McNally earned 10 apiece.

The CC 69ers took an easy one over the Nads 59 to 35.

Tony Thomas scored 25 of the Nads 35 points. Big Jim Williams tallied 12 for the 69ers; Ed Angel, 11.

The Meat Loafs rallied from an earlier loss to win their game two of the week, 43 to 25 at the expense of the Y-12 Rats.

Bob McCulley added some necessary strength to the team and as the team matures more will be heard from the Loafs.

The Spotters were edged out by the Trojans 57 to 56, who did it without a 'wooden horse.'

Tom Davis did some sensational shooting to put the game on ice by a mere point . . . with a roaring 27 point assist. Frank Linson was equally sensational with his slick ball-handling and fast break leadership. The Spoilers, who led most of the night, were led by Robert Taylor with 17 points. This was by far the most exciting game featured yet in the young season.

The Butter Balls bettered the Mod Squad 46 to 34 as the BB's rolled along with Bobby Belt, looking better each game. Bob hit 26 mostly on lay-ups and tip-ins. The Mod Squad needs a little help on the boards.

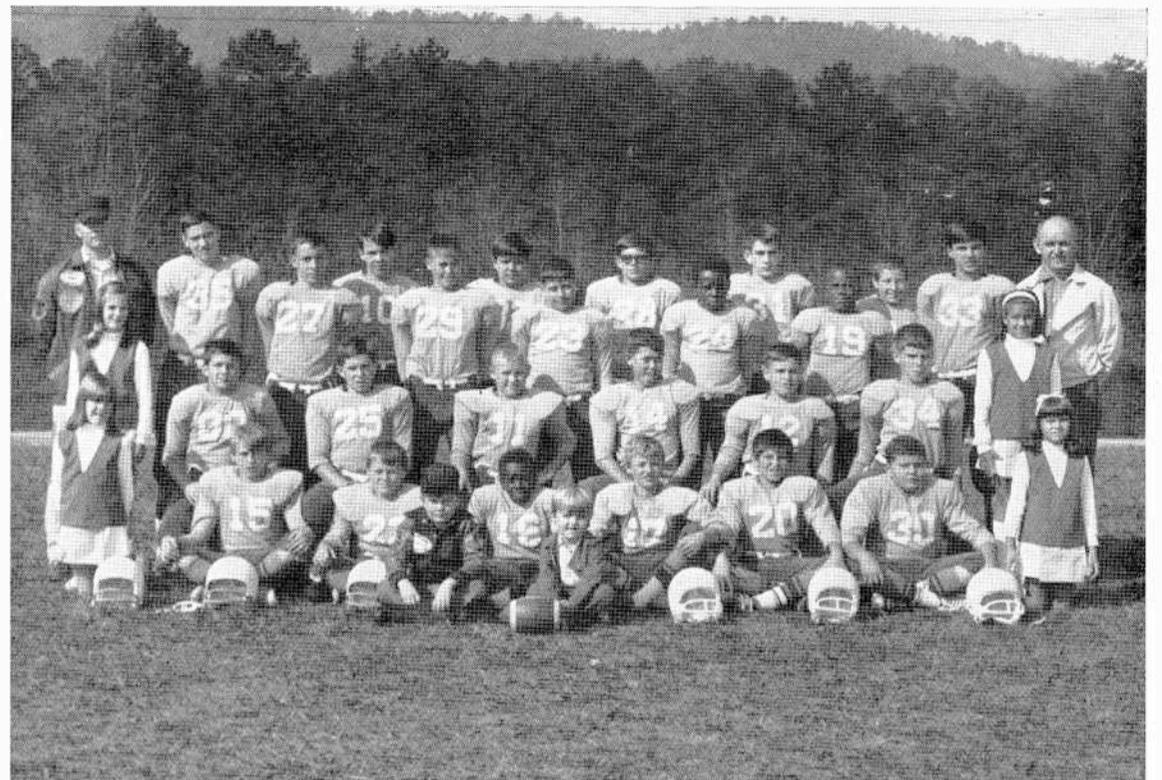
League standings follow:

Team	W	L
K-25 Trojans	4	0
GBU's	3	0
CC 69ers, K-25	3	0
Computes, ORNL	3	0
Nads, ORNL	3	1
Spotters, ORNL	2	1
Aggressors, ORNL	2	1
Butter Balls, ORNL	2	1
Rolling Bones, ORNL	2	1
Beta 2 Miners	2	1
Isotopes, ORNL	2	3
Meat Loafs, ORNL	2	3
Buccaneers, Y-12	1	2
All Stars, ORNL	1	2
Bombers, ORNL	1	2
Hawks, Y-12	1	2
Rats, Y-12	1	2
Quarks, Y-12	1	3
Mod Squad, Y-12	0	3
Development All Stars, Y-12	0	4
Road Runners, ORNL	0	4

Alert today—alive tomorrow.

REMEMBER...Your KIDS aren't fireproof.

So make sure your decorations ARE!



THE SOUTH HARRIMAN PIRATES, with coaches, cheerleaders are an integral part of the midget football league around Harriman. Several of them are off-springs of Y-12ers. Seated in the front is Mascot Mike Morgan, son of W. V. Morgan; and Sam Borum. In the front row, from left are Daphne Duncan, Scott Griffis, Randy Wright, son of Jack Wright; John Cleveland, Danny Franklin, Keith Isham, Jimmy Burgess, and Gina Parker, daughter of Mrs. Eva Parker. In the second row are Darla Duncan, Jeff Evans, Mike Burgess, Kevin Grigsby, Peter DeBlounce, Ricky Wright, Jack Wright's son; Ted Harmon, Charles Harmon's son, and Tina Swicegood. In the third row are Wayne Serton, Danny Kelley, Glen Randolph, Johnny Marble, son of Jack Marble, Tyrone Thomas, Oren Hembree. In the fourth row is W. V. Morgan, coach, Y-12; Eddie Davis, David Stump, Zane Goodrich, Donny Stevens, Tommy Keller, Manager Bill Bailey and Coach Jim Borum. The Pirates recently completed a successful season with an eight-two record.

Mixed Bowlers Fire 2nd Half Guns

The Mixed Bowling League began its second half, only to take two weeks off now for the holidays. The Goofers galloped by the Twisters for four; as the Roses 'N Thorns rallied past the Rollers for the same score. The Hits & Misses hit the Spare Parts for three; while the Alley Cats and Mustangs shared two.

Roy Scates, Goofers, rolled a 192 single scratch game; Jim Young, Hits & Misses, rolled a 222 handicap single. Scates' series of 554 scratch, 617 handicap were high. Virginia Newby, Goofers, gleaned all honors on the distaff side of the alleys, singles of 199 scratch, 244 handicap; series of 506, 641.

The Goofers took all team honors, singles of 691 scratch, 814 handicap; series of 1931, 2390.

League standings follow:

Team	W	L
Goofers	4	0
Roses 'N Thorns	4	0
Hits & Misses	3	1
Alley Cats	2	2
Mustangs	2	2
Spare Parts	1	3
Rollers	0	4
Twisters	0	4



Ride wanted from North Purdue, Oak Ridge, to Bear Creek Portal, A Shift. Ola Brown, plant phone 3-7453 or 3-7968, home phone Oak Ridge 483-9459.

Ride wanted from Karns Community to North Portal, J Shift. W. C. King, plant phone 3-7500, home phone Knoxville 588-2617.

Ride wanted from Euclid Circle, East Village, Oak Ridge, to North Portal, straight day. G. E. Bennett, plant phone 3-7705, home phone Oak Ridge 482-2775.

Lift properly! A weak brain can break the strongest back.

Recreation



calendar

Thursday, December 25
CHRISTMAS: Holiday for Y-12ers. God Bless Us Everyone!

Monday, December 29
BOWLING: C League, 5:45 p.m. Ark Lanes.

TABLE TENNIS: 7 p.m. Wildcat's Den.

Tuesday, December 30
BOWLING: Carbide Starlite League, 8:30 p.m. Starlite Lanes, Knoxville.

Thursday, January 1
NEW YEAR'S DAY: Holiday for Y-12ers.

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

TABLE TENNIS: 7 p.m. Wildcat's Den.

BASKETBALL: 6:30, 7:30, 8:30 p.m. Oak Ridge High School Gym. Front Court: Nads vs. Hawks; Mod Squad vs. Bombers; Y-12 Rats vs. Road Runners. Back Court: Quarks vs. Butterballs; Isotopes vs. Buccaneers; All Stars vs. Spoilers.

Tuesday, January 6
PHYSICAL FITNESS (For Men): 7-9 p.m., Oak Ridge High School Gym.

BOWLING: Carbide Starlite League, 8:30 p.m., Starlite Lanes, Knoxville.

Wednesday, January 7
BASKETBALL: 6:30, 7:30, 8:30 p.m. Oak Ridge High School Gym. Front Court; GBU's vs. Aggressors; Computes vs. CC 69ers; Development All Stars vs. Mod Squad. Back Court: Meat Loafs vs. Beta 2 Miners; K-25 Trojans vs. Rolling Bones; Nads vs. Y-12 Rats.

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

Thursday, January 8
BOWLING: Classic League, 5:45 p.m. Ark Lanes.

VOLLEYBALL: 6:30, 7:45, 9 p.m. Oak Ridge High School Gym. Court A: Blacksmiths vs. Beta 4

Classic Bowlers Toss Final Blows

The Rebels, even though they knew their opponents already had cinched the title, refused to die and took three points away from the Markers in final play in the first half last week in the Classic Bowling League. The only four-point win went to the Cubs over the Bumpers.

The All Stars clipped the Splinters for three, and the Has Beens trimmed the Rippers likewise. The Playboys put the Screwballs down, and the Smelters cleaned the Eightballs, both for three.

Sharing two were the Eagles and Swingsters . . . the Pinbusters and Tigers.

Wayne Groppe, Rippers, tore into singles, 238 scratch, 254 handicap. J. C. Bryan, Rebels, rolled a 597 scratch series . . . and Kendall Brooks, Has Beens, had a 659 handicap series.

The Bumpers were best in singles in scratch count, 928. The Rippers took handicap single honors with 1027. The Rebels cinched series scratch highs posting a 2598, and the Cubs rolled 2944 handicap series.

League standings follow:

Team	W	L
Markers	44½	15½
Rebels	37	23
All Stars	35½	24½
Cubs	33½	26
Rippers	33	26½
Tigers	33	27
Swingsters	31½	28½
Has Beens	21	29
Playboys	30	30
Pinbusters	29½	30½
Screwballs	27½	32½
Eightballs	25	35
Bumpers	24	36
Splinters	24	36
Eagles	22	38
Smelters	18	42

DEFINITION

Experience is that wonderful knowledge that enables us to recognize a mistake when we make it again.

Commodores; K-25 Gashouse Gang vs. Ecobums; K-25 Hawks vs. Boomerangs. Court B: Beavers vs. Set-Ups; Old Men (ORNL) vs. Bombers; Y-12 Old Men vs. Eagles.

The Bulletin

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



NUCLEAR DIVISION

JAMES A. YOUNG Editor

Member Appalachian Industrial Editor's Association

American Association Industrial Editors

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EULA ESTES was 'surprised' recently with a retirement party held at the Alexander Motor Inn, Oak Ridge. Eula has been in Machine Tool Engineering since 1959. She and husband Chester, Development, are avid fishermen and have been seen of late with big muskies pulled out of the deep waters at Norris. They are also avid campers, and co-workers presented Eula with a portable typewriter so that she might record for history all the 'big ones that got away.' Good luck, they say to Eula, and may you enjoy the next '39' as much as you have the first! A total of 13 men retired also this month . . . all early . . . but more on that in the next issue.



COOK—BURNS

August 23 was the wedding date for Miss Jimmie Kay Burns to Ross Stewart Cook, and they chose the First Baptist Church of Clarendon, Arlington, Virginia as the scene of their wedding. The Reverend Thomas Miller officiated at the rites.

The bride is the daughter of Mr. and Mrs. James A. Burns, Route 3, Rockwood; and the groom is the son of Mr. and Mrs. Donald R. Cook, San Diego, California. (Mr. Burns is in Y-12's Building, Grounds and Maintenance Shops.)

Given in marriage by her father, the bride wore a full length gown of candlelight peau de soie. It was victorian styled with an empire waist and A-line skirt trimmed with bands of imported French lace. It featured a high stand-up collar with short puffed sleeves also of lace. Her chapel train was trimmed with lace appliques and edged in lace. Her double tiered veil was attached to a lace and seed pearl headband of silk illusion. She carried a nosegay of yellow rosebuds.

Miss Linda Raby, Harriman, was maid of honor and bridesmaids were Miss Wilda Loggins, Harriman; Miss Joan Tippet, Washington, D.C.; and Miss Karen Bees, Arlington, Virginia.

Best man was M. Alan Woods, Washington, press secretary to President Nixon. Groomsmen were Leslie Jack, Johns Hopkins University; Robert T. Jones, Washington; and William Bower, San Francisco, California.

A reception honored the couple at the Marriott in Kay Bridge in the Georgetown Room. Yellow and white was the motif and champagne and fruit punch were served to the 100 guests.

The bride graduate from Rockwood High School and has worked in the Department of Agriculture for three years.

The groom graduated cum laude from the University of Redlands, and has done graduate



Mr. and Mrs. Ross Stewart Cook

work at the San Diego State College and the University of California. He is associated with the Foreign Agriculture Service of the Department of Agriculture.

The couple is at home in Alexandria, Virginia, after a Canadian honeymoon.

Unattended Children Can Spell Danger!!!

Children left unattended in a car that has power windows can easily play with the switch unless an adjustment is made so that the windows operate only when the ignition is on. Avoid possible strangulation, loss of fingers and other tragedies to children from your windows. Get the switch adjusted and be sure the ignition key is off and you have the key with you even if you leave the children alone in the car for only a few seconds. Better still, never leave a child alone anywhere, anytime!

MOTOR VEHICLE FATALITIES

More than 70,000 motor vehicles were involved in fatal highway crashes in 1968; of these, more than 55,200 were private passenger cars, according to the Travelers Insurance Company's annual statistics.



Ring out the old . . . ring in the new! Situated with happy anniversaries during the holidays are the following Y-12ers, marking important dates with Union Carbide Corporation. Congratulations!

25 YEARS

- Jennings Baird**, Laundry, December 26.
- Ellis T. O'Rourke**, Process Maintenance, December 29.
- Edmon B. Kimbro**, Facilities Engineering, January 2.
- Dell W. Goins**, Chemical Services, January 2.
- Maxine E. Duke**, ORNL Chemical Services, January 2.
- Clarence F. Christie**, H-1 Foundry, January 3.
- Myrtle S. Leach**, Chemical Services, January 3.
- Wardell Caldwell**, Building Services Department, January 4.
- Hennie T. Ward**, Building Services Department, January 4.
- Lou G. Billingsley**, Building Services Department, January 5.

20 YEARS

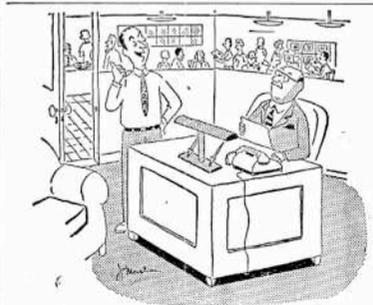
- Lloyd O. Campbell**, Guard Department, December 26.
- Jesse J. Cox**, General Expediting and Auxiliary Services, January 3.

15 YEARS

- Herbert B. McCowan**, Tool Grinding, December 24.
- John M. Childress**, Data Processing, December 27.
- Charles C. Jones**, General Machine Shop, December 27.
- Charles F. Mason**, Process Maintenance, December 27.
- Clyde B. Clift**, Tool Grinding, December 29.
- Claude J. Cumbie**, Research Services, December 29.
- Victor Henegar**, Dispatching Department, December 30.
- LaFayette E. Pate**, Alpha Five East Shop, January 1.
- William C. Fraley**, General Shop Job Liaison, January 3.
- Samuel Edmonds**, Stores Department, January 3.
- Bert Searles**, Mechanical Inspection, January 3.
- Glenn F. Babb**, Stores Department, January 3.
- Willie Chambers**, Tool Grinding, January 3.
- Robert E. Dripps**, Stores Department, January 3.

10 YEARS

- Ernest B. Dyer**, Fabrication Division Engineering, December 24.
- Conrad S. Strike**, Dispatching Department, December 28.
- Charles C. Brown**, Engineering Mechanics, December 28.
- Carl S. Sliger**, A-2 Shops, 9212, December 28.
- Herbert W. Hensley**, Machine Maintenance, December 30.
- Julia L. Butler**, Production Assay, January 2.
- Barbara W. Williams**, Product Information Center, January 4.
- Ralph G. Williams, Jr.**, Production Radiation Testing, January 4.
- Raymond B. Russell**, Alpha Five East Shop, January 4.
- Edna E. Pickens**, Radiation Safety, January 4.



"If you don't give me a raise, I'll tell all the office staff that you did."

UNION CARBIDE CORPORATION
 NUCLEAR DIVISION
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C Bowling Set Rolls Roll-Off

The HiLifers downed the Rounders for three points in the position roll-off in the C Bowling League last week, but still trailed three points in final counting. Four-point wins went to the Rollmasters by the Badgers and the Big Five over the Anodes.

Other three-point wins went to the Parbusters by the Instrument Engineers and the Fireballs by the Sunflowers. The Royal Flush and Go Go Gophers fighting out the last position shared two.

Larry Byars, Go Go Gophers, went like a house afire at least in singles, rolling a 240 scratch, 285 handicap single. Elmer Hawk, Sunflowers, rolled a 646 scratch series; Pete Gregory, Rounders, rallied a 699 handicap series!

The Sunflowers zeroed in with singles in scratch count, 927; the Rounders rounded out handicap highs . . . 1032. The Rollmasters rolled high in series counting, 2664 scratch, 2994 handicap.

Final standings follow:

Team	W	L
Rounders	41	19
HiLifers	38	22
Instrument Engineers	35	25
Parbusters	35	25
Rollmasters	35	25
Badgers	31	29
Sunflowers	29	31
Big Five	29	31
Fireballs	28	32
Anodes	23	37
Go Go Gophers	23	37
Royal Flush	13	47

ORGDP Ships Enriched Fuel

The Oak Ridge Gaseous Diffusion Plant shipped approximately 110,000 pounds of enriched uranium during November for use in nuclear reactors. The plant is one of our facilities operated by Union Carbide Corporation's Nuclear Division for the U.S. Atomic Energy Commission.

The uranium, which was enriched at a charge of more than \$4.2 million, filled orders authorized under two AEC programs—Toll Enrichment and "Lease and Sale."

Under the Toll Enrichment program, approximately \$3.8 million worth of separative work was performed for customers in Japan, as well as in the States of Minnesota, Nebraska, South Carolina and Wisconsin. Since this program was started in January, 1969, approximately \$44 million worth of separative work has been carried out for customers throughout the Free World.

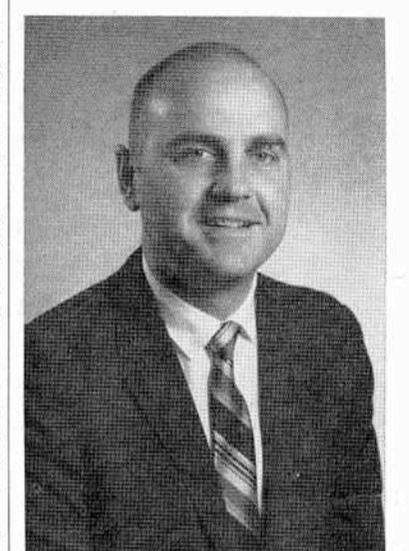
Customers are charged for the services required to separate from natural uranium the desired percentage of the uranium-235 isotope, which is the fissionable material used in nuclear reactors.

Under the "Lease and Sale" program, reactors in California and Nebraska received government-owned enriched uranium valued at more than \$300,000.

The AEC's gaseous diffusion plants at Paducah, Kentucky, and Portsmouth, Ohio, are also involved in the uranium enrichment program.

It pays to look the best you can before you cross the street.

Broders' Paper At New Orleans



Martin A. Broders

Martin A. Broders, supervisor of the Technical Information Services Department in Y-12, presented a paper recently at the American Association for Contamination Control in New Orleans, Louisiana.

Broders' topic was "The Design and Establishment of the Machining and Gaging Information Center (M.A.G.I.C.)." The paper described the operation of a specialized information center in Y-12 which collects and disseminates information pertaining to new and precise methods of machining and gaging. The information center provides its service to the U.S. Atomic Energy Commission, Y-12, and selected AEC contractors.

Woodpeckers Edge Up In Starlite

The Thunderbirds took a sweeping win last week in the Carbide Starlite Bowling League. They downed the Has Beens for the full count of three. The Wildcats took three from the Jaguars also. Posting two were the Woodpeckers by the Splitters, and the Dynapaths by the Hi-Jackers for two.

The Hi-Jackers hit high scratch honors . . . singles of 874, series of 2485. The Woodpeckers were best on handicap counts, singles of 1034, series of 2960.

Individual honors went to J. R. Demonbrun, Thunderbirds, in singles with a 219 scratch, 245 handicap; Howard Crane, Hi-Jackers, 562 scratch series; and Wiley Thompson, Woodpeckers, with a handicap series of 655.

League standings follow:

Team	W	L
Hi-Jackers	19	8
Woody's Woodpeckers	18	9
Splitters	17	10
Dynapaths	14	13
Thunderbirds	14	13
Has Beens	13	11
Wildcats	9	18
Jaguars	4	23

WHERE THE BOYS ARE

We like the story of the tourist who went swimming in the great Gobi desert. The water wasn't much, but, man, what a beach!