

Employee's Letter Sets Out Safety's Role In Everyday Life, Giving Many Benefits

Although a serious accident already mars the "Accident Free in '63" campaign, the drive is still on to keep Y-12 free of painful lost-time injuries for the remaining part of the year.



Anthony A. C. Hitchcock

Recently an unsolicited letter came to the Safety Department from Anthony A. C. Hitchcock, Research Services. A native of England (born in Devonshire, England), Hitchcock was naturalized an American citizen on December 5, 1952. He is a veteran of the United States Air Force, having served from 1949 until 1952. Married to the former Patricia Peach, he lives with his family at 105 Macon Lane, Oak Ridge.

One of his main interests is his hobby of operating a radio ham outfit. He is a member of the Oak Ridge Radio Operators Club.

His unsolicited letter is reprinted. His views on safety and safe operations are particularly apropos at the beginning of a new year.

An Employee Speaks

"During this season it occurred to me how lucky we all are. I should like to express my gratitude to Carbide for helping me to be here and in good health to be able to do this. This was brought about in part by the safety equipment and safety program.

"There are not too many places where one receives awards for being safe other than their individual well being. At home, I make coffee, tell time, water the lawn and do many other things too numerous to mention with safety awards. These serve to remind me both on and off the job that safety pays and pays well.

"I have no way of knowing, but I might need to be thankful that I still have my eyesight or all of my toes. I could have easily been dismembered or hurt if it had not been for safety equip-

Continued on Page 4

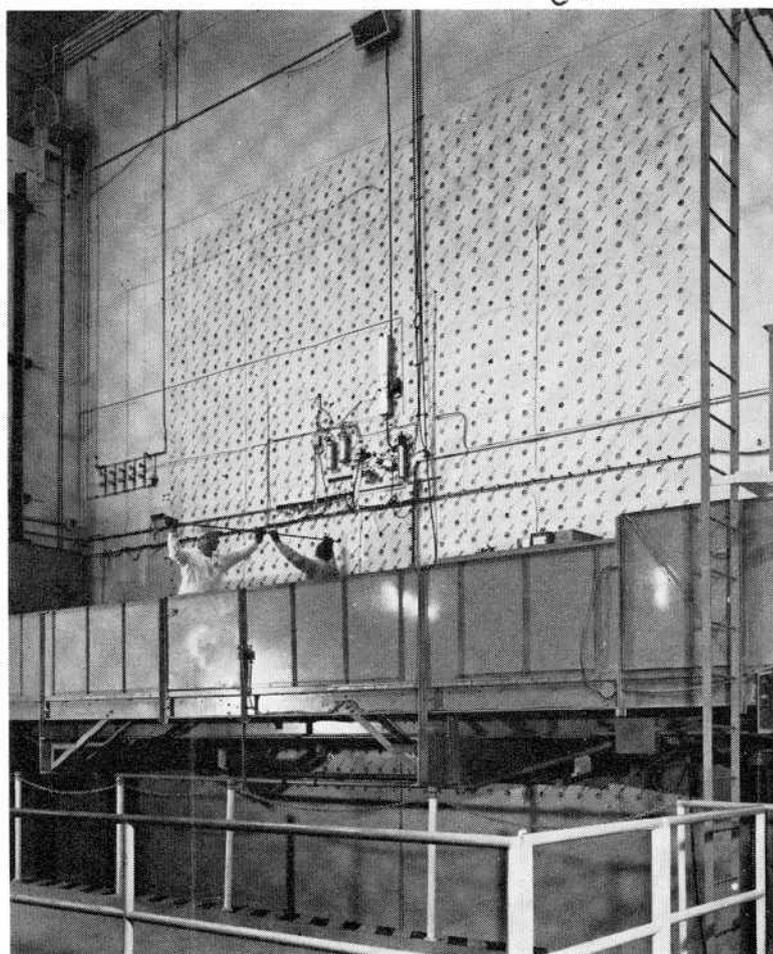
Credit Union Meeting Tonight In Oak Ridge

The annual meeting of Y-12's Credit Union is set for tonight, Wednesday, January 16, in the Green Room of the Ridge Recreation Hall. To be elected are three board members, and two members to the credit committee.

All members of the Y-12 credit organization are urged to attend the full-membership meeting. The meeting gets underway at 7:30 p.m.

Wanted . . . Wanted

Wanted . . . at once . . . additional students for Math 121, full college credit. For further information contact Frank Fuis, telephone extension 7-8234.



THE WORLD'S SECOND REACTOR, the Graphite Reactor at Oak Ridge National Laboratory, began operations November 3, 1943, less than a year after Dr. Enrico Fermi's experimental "pile" achieved initial criticality in Chicago. Today, the Graphite Reactor, the world's oldest still in operation, is used for experimental work, and to produce some radioisotopes.

What Is A Reactor? How Does It Work?

Non-Experts Can Understand New Force

Reactor. Fission. Criticality. Strange new words in the nuclear age headlines of today's newspapers, television, magazines and radio.

What do they really mean? How can they be explained?

Dr. Glenn T. Seaborg, Chairman of the Atomic Energy Commission and one of the nation's leading scientists, declares that today's new scientific terms and much that is going on in this atomic age can be readily understood by non-experts if the attempt is made.

The attitude to be avoided, Dr. Seaborg points out, is a tendency to throw your hands in the air at the first encounter with science and technology and exclaim: "I can't possibly understand that!"

The truth is that you probably can.

Take reactor for example. What is a reactor? How does it work? What does it do?

Energy Is Released

A tremendous binding force holds the parts of an atom together. Scientists reasoned—and proved it to be true—that if an atom could be split, or fissioned, there would be a great release of energy.

This energy, it was found, is released partly as heat and partly as radiation.

What actually is split, or "fissioned," in an atom is its nucleus or center, which is made up of two types of particles called neutrons and protons.

In the fissioning process not only energy but neutrons are released, and it is this fact that leads to the possibility of a chain reaction with its resultant release of a large quantity of energy.

Criticality Defined

When enough neutrons are released so that the process of these neutrons splitting the nuclei of other atoms becomes continuous and sustained, a reactor is said to have "gone critical" or "reached criticality." The original Fermi reactor in 1942 proved that the buildup of fission energy to "criticality" and subsequent release of this energy could be controlled.

In a chain reaction, the neutrons released by the fissioning of one atom go on to split the nucleus of another, thus releasing more energy and more neutrons which will cause the fissioning of other atoms, etc., etc.

One definition of a reactor is simply that it is an atomic furnace in which the heat and radiation produced by this chain reaction can be controlled and made to serve useful purposes. A scientist's definition would say that a reactor is a device in which the reaction within the nuclei of certain atoms occur in a controlled, self-sustaining or chain-reacting manner. A reactor is said to have gone "critical" or to have reached "criticality" when this chain reaction has been achieved.

The word reactor — borrowed from the chemical industry where it means a vessel used to permit industrial chemical reactions to take place—came into atomic usage shortly after World War II when a more accurate term was needed to describe an atomic "pile."

Continued on Page 4

SCHWEITZER COMMENT

"To me, the Red Cross is a light in the darkness. We owe a debt of gratitude to those who set it there so many years ago. And it is the duty of all of us to see that it does not go out." Dr. Albert Schweitzer.

UCC Marks 20th Year In Atomics

Friday, January 18, marks Union Carbide Corporation's 20th anniversary in the nuclear industry field.

In December, 1942, several representatives from Union Carbide attended a meeting and discussed with Manhattan District officers one of the most unique scientific undertakings in this country's history. The following January 18, 1943, a contract for the operation of a gaseous diffusion plant was signed and the design work for the Oak Ridge Gaseous Diffusion Plant was started the following Spring.

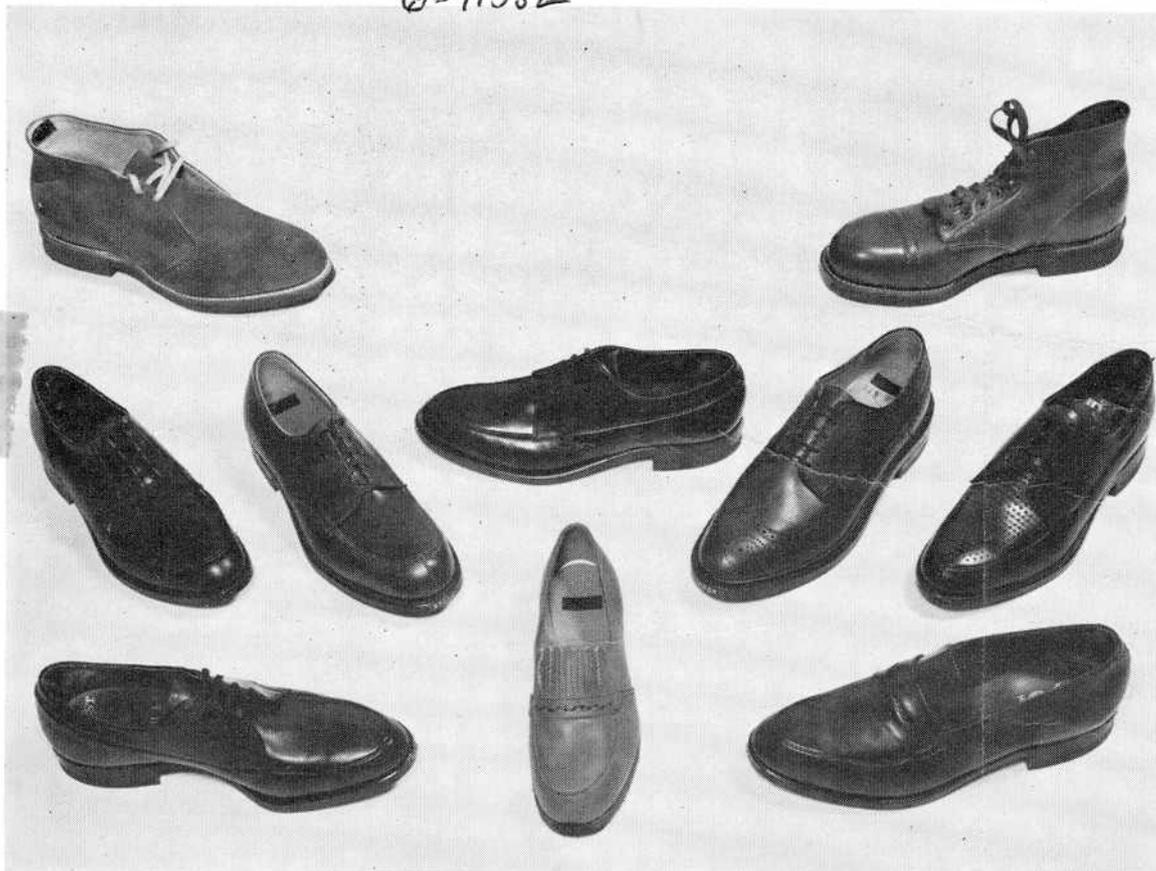
A souvenir brochure, prepared by Union Carbide Nuclear Company, is being readied for issue to all employees. This booklet gives the early important events of the Oak Ridge operations, and developments through the following years.

First Lost-Time Accident For 1963 Is Recorded

The first accident of 1963 occurred on January 3, 1963, as an employee in the Mechanical Operations Division received thermal burns when his cotton underclothing inside his protective suit was ignited.

The accident brought to an end the string of eight days, or 230,000 man-hours since the last lost-time accident in Y-12.

Even though the accident-free goal got off to this bad start, it should be no deterrent to greater safety efforts for 1963. With renewed effort, all Y-12ers may still make the remainder of this year accident-free. The dividends of safe working habits are good health and security.



TEN STYLES OF SAFETY SHOES are shown above for men and one pair (in the center) for women employees. There are presently three styles stocked in Stores, and the others can be ordered on special order. The display of shoes is now in the Cafeteria lobby and Stores in Building 9720-8, showing price and whether or not the shoes are in stock. The shoes may be obtained at the shoe counter, Building 9720-8. Orders should be mailed to W. H. Stanton, Building 9720-8, Zone 1.

The Bulletin

Published Weekly By And For
Y-12 Employees Of
UNION CARBIDE
NUCLEAR COMPANY
Division of

UNION
CARBIDE

UNION CARBIDE CORPORATION

JAMES A. YOUNG Editor

OFFICE
Post Office Box Y
Oak Ridge, Tenn.
Bldg. 9704-2 Room 149
Telephone 7109



ENGAGEMENTS



Miss Betty Jewel Neeley

NEELEY—STOOKSBURY

Mr. and Mrs. John Henry Neeley Jr., Gill Drive, Powell, announce the engagement of their daughter Miss Betty Jewel Neeley to Mr. William H. Stooksbury. The prospective groom is the son of Mr. and Mrs. T. E. Stooksbury, Brown Lane, Powell.

The fathers of the future bride and the groom-to-be are both Y-12ers. Mr. Neeley is in Y-12's Special Mechanical Production, and the father of the prospective groom is in the A-2 Shop.

A graduate of Powell High School, Miss Neeley was a cheerleader for two years and co-captain. She was a beauty contestant in the "Miss High School" contest the last two years of school, and was voted "Most Pleasing Personality" by her senior class. She served as a class officer her junior and senior year at Powell. At the present she is employed at the Powell Telephone Company.

The groom-to-be was captain of the basketball team at Powell, and was also a member of the softball team there. He is stationed with the United States Navy at Norfolk, Virginia.

The wedding is planned for 7:30 p.m. February 16, at the First Baptist Church, Powell. All friends and relatives of the couple are cordially invited to attend the rites.

In God we trust, but we depend upon you for security.

SAFETY SCOREBOARD

The Y-12 Plant Has
Operated
10 Days Or
317,000 Man-Hours
(Unofficial Estimate)
Without A Disabling
Injury
Through January 13
Phone 7755
For Daily Report
On Accident-Free Hours



This one came across the desk recently. It seems a patient was interviewing his physician, after an annual physical check-up. "Now, doc, if there's anything wrong with me, please don't give me a long, medical name for it. Just say it so I'll understand it."

"Very well," the doctor replied, "you're lazy."

"Thanks a lot, doc, now gimme that long, medical name for it. I've got to report to the boss!"

In Y-12, the reports are in

FINANCE AND MATERIALS

An early and restful vacation was taken by E. A. Hauther, Reproduction, at his Knoxville home last week.

Speedy recovery wishes are again sent to T. A. Williams, who is missed by all, from the Cashier and Travel Department.

Get well wishes are sent also to J. L. Markland, Microreproduction and Engineering Services, who is out sick.

Whistler came home one day to find his mother on her hands and knees scrubbing the kitchen floor. "Why Mother," he exclaimed, "have you gone off your rocker?"

ENGINEERING

Tool Engineering has the welcome mat out for three new employees . . . O. L. Terry and W. D. Phillippi from ORNL . . . Joining them Bob Hale comes all the way from Orlando, Florida. Wonder if Bob just got tired of all that snow and decided he needed a warmer climate?

Bill Hood is thinking of putting a sign on his little doodle bug. Seems someone mistook it for the real thing and ran over it.

Dick Spears did a double take on the scene outside his window the other night . . . seems a herd of cattle was grazing in his pasture . . . Not wanting to be caught for rustling, Dick was seen shooting the critters down toward Kingston Pike, his wife close on his heels worrying that the four-legged critters might be hurt by some four-wheeled critters. For the moment everything is peaceful again on the Spears ranch.

Project Engineering welcomes O. W. Patrick to its midst . . . also welcomes back H. D. Duncan who has been off on an extended illness.

Sympathy is extended to Dewey Young whose mother died last week in Williamsburg, Kentucky. Get well wishes are rushed to C. R. Kasperek's mother who underwent surgery recently.

Seems like the gang are warning Lynn Cabe and I. S. "Sto" Ware to stay out of the bath-tub. Both had mishaps on the soap recently.

MECHANICAL OPERATIONS



Teresa Ann Tiller

This little maid was born back in October and is the pride and joy of the Ray Tiller household. She was only two months old when the above picture was made. Her 'cara noma' is Teresa Ann Tiller, and her mother is fondly remembered by Production Control folks as Judy Tiller. Rolling and Forming's Joe Parker proved the old adage of

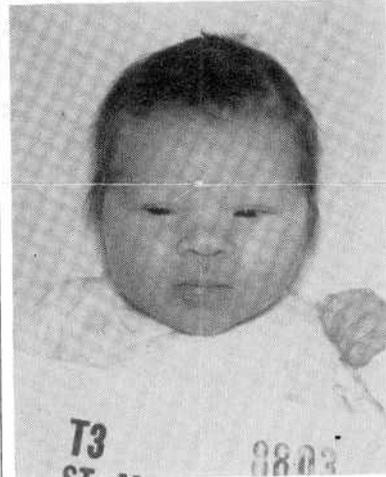
"them 'as gots, gets," recently. Seems on January 1 he received delivery on a brand new special sedan. The dealer announced 10 days later a sales gimmick including a week's vacation at a Miami lush spot to any purchaser of said make of car. Joe put in his request and is now planning a week's relaxing in the sunshine state with his wife Jessie, sometime during March, all at the expense of a local car dealer.

The second baby for Lewis and Jerry Watson arrived January 10 at the Oak Ridge Hospital at 6:23 p.m. It's a boy . . . Lewis Thomas Watson, weighing nine pounds, 14 and one-half ounces. Lewis is in the General Weld Shop, Jerry was formerly in Property. Congratulations.

The Mechanical Operations Division extends condolences to L. S. Sheffield whose brother was lost in a freak accident recently on Okinawa.

INDUSTRIAL RELATIONS

Get well wishes to H. J. Bal-
lew, Fire and Guard Department . . . Also folks of F&G personnel are ailing and best wishes to them . . . J. T. Riddle's wife and C. E. Alcorn's son.



Barbara Anne Braden

Leave it to Liz to come up with the first 1963 baby picture! This little exemption arrived January 3, 1963, at St. Mary's Hospital, Knoxville, weighing seven pounds, 11 ounces. Her name is Barbara Anne Braden, the daughter of Mr. and Mrs. M. R. Braden. Congratulations, folks!

The new income tax forms are really simple. All they want to know is: How much do you earn, how much do you have left, and how come?

SHIFT SUPERINTENDENTS AND UTILITIES

Attending the Sugar Bowl on his vacation was A. H. Norman and his wife . . . Get well wishes are sent to R. W. Chrisman.

Condolences are extended to L. Ellison and family in the recent death of his mother-in-law and to J. B. Tallent and family. His grandfather died recently.

When someone says, "It's not the money, it's the principle," nine times out of 10 it's the money.

MAINTENANCE

Electrical is sending sympathy to J. R. Carriger whose father passed away recently in Elizabethton, Tennessee.

Get well wishes are sent to A. L. Sawyer who is confined to St. Mary's Hospital in Knoxville.

Isn't it too bad that school teachers were not as young and good-looking back when we were



BLEDSON—LYNN

The double-ring ceremony uniting Miss Martha Katherine Lynn and Woodrow Page Bledson took place Saturday, November 24 at the Concord Presbyterian Church. The Reverend Harry S. Hassall officiated.

The bride is the daughter of Mrs. Katherine Lynn, Route 14, Davis Lane, and the late Mr. Robert Floyd Lynn. The groom is the son of Mr. and Mrs. James E. Bledson, Concord. His father is in Y-12's Tool Grinding Department, Mechanical Operations Division.

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

After a wedding trip to Gatlinburg, the couple is at home at Chanute Air Force Base, Rantoul, Illinois, where the groom is stationed with the United States Air Force.

MOON—FORD

Miss Barbara Frances Ford was married Saturday, December 15, to Mrs. James Ray Moon at the Wallace Memorial Baptist Church, Knoxville. The Reverend James McCluskey officiated at the rites.

Parents of the bride are Mr. and Mrs. Ralph H. Ford, 4414 Schubert Road, Knoxville. Mr. Ford is in Y-12's A-2 Foundry. The groom is the son of Mr. and Mrs. Ray Moon, Smithland Lane, Knoxville.

The bride wore a dress of lace over taffeta with a lace cap holding her waist-length veil. She carried a white orchid over a white Bible.

Miss Jackie Ann Ford and Mrs. Hugh L. Roberts Jr. were attendants to their sister. Bridesmaids were Misses Pat Shoemaker and Janice Moon, sister of the groom, and Mrs. James Arms. The attendants wore red velvet dresses and carried white muffs, holly leaves and red carnations.

Best man was Johnny Nicely. Groomsmen were Jim Stiles, Mike Hicks, Hugh L. Roberts Jr., Ray Ford, brother of the bride, and Jimmy McCary and Bobby McCary, Canton, Alabama.

A reception honored the couple at the church after the ceremony.

The bride attended the University of Tennessee and is employed by Southern Bell Telephone Company. The groom is employed at Chapman Drug Company.

Metals Society Meeting Tonight

The Oak Ridge Chapter of the American Society for Metals will meet tonight, Wednesday, January 16, at the Park Hotel, Clinton. The social hour begins at 6:15 p.m., with dinner at 6:45 and the technical meeting slated for 8:15.

Guest speaker at the ASM meeting will be Ronald F. Dickerson, Battelle Memorial Institute, Columbus, Ohio. He will speak on "Nuclear Fuels." Dickerson earned his BS and MS degrees from Virginia Polytechnic Institute, and has been a staff member at BMI for many years. Currently he is assistant manager of the physics department. He will incorporate into his talk a general discussion of solid nuclear fuels including metal, oxide and carbide base types.

Dinner reservations are being handled through J. Wheeler, telephone extension 6680. All ASM members and guests are welcomed.

in school as they are now? Let's go home.



Mr. and Mrs. Woodrow P. Bledson



Mrs. James Ray Moon

Y-12ers Celebrating 15, 10 Year Anniversaries

Congratulations to the following Y-12ers who will observe 15 and 10 year anniversaries within the next few days.

15 YEARS

Everett L. Douglas, Beta Four Heavy Machine Shop, January 19.

William O. Thompson, General Machine Shop, January 21.

10 YEARS

Thayer A. Hickman, Research Services, January 16.

John H. Metcalf, H-2 Shop, January 17.

Claude E. Disney, Research Services, January 19.

Billy R. Pearson, Training, January 19.

Louise G. Scogin, Engineering Division, January 19.

Charles R. Wardell Jr., Electrical, January 20.

Robert D. Baker, Process Maintenance, January 21.

Aubrey G. Bryant, General Weld Shop, January 21.

Van B. Williams, Research Services, January 22.

ORNL's Schmitt Gives Physics Seminar Friday

The Physics Division Seminar this week will feature H. W. Schmitt, Oak Ridge National Laboratory. He will speak on "Kinetics of Fission: Fragment Energy Correlations Measurements."

The seminar is set for Friday, at 3:15 p.m., January 18, in the East Auditorium of ORNL's 4500 building.

ASTRONAUTS LEARN SWIMMING

Alan B. Shepard, Gus Grissom, John Glenn, Scott Carpenter, and Walter Shirra, as well as the two other original astronauts, all received Red Cross advanced survival swimming training from the Norfolk, Virginia, Red Cross Chapter.

Atoms New Leaders In Hardwood League

Flyers Drop Two After Holidays

The Basketball League for Car-biders got back into full swing after the holidays last week, as the Flyers opened up the new year by downing the Lab Demons, from Oak Ridge Gaseous Diffusion Plant, 51 to 19. Carlos Brooks led the victors with 16 points. It must have been too much holidays for the Demons, as they never really got warmed up.

The 'night for cold teams' also featured the Atoms tromping over the Misfits 49 to 22. Without their star center Peters who returned to school, the Misfits just couldn't find the hoop. George and Strike led the Atoms with 10 points each.

Y-12 Eagles Lose

The ORGDP All Stars and Eagles clashed for the final game Monday. This game started out as if it were going down to the wire. The score was tied several times and the Eagles enjoyed a two-point lead at the end of the first half. The Eagles, however, reverted back to the usual type play seen Monday night, and the All Stars ended up on top 45 to 35. Ralph Vaughan led the losers with 16 points, Rene Rodriguez led the victors with 10.

Two Y-12 teams clashed Wednesday night as the Atoms trounced the Flyers 41 to 21. The Flyers took an early six point lead in the game . . . then cooled off. Jim George, Atoms, lit the fuse and the Atoms flew. After the second period there was no contest with the Atoms building up an 18 point lead. Jim Pugh led the Flyers in the loss with 12 points through the basket.

Misfits Win 1st Game

Y-12's Misfits took on the ORGDP Lab Demons Thursday night to soundly defeat them 46 to 34, to register their first win of the season. The Misfits keep improving steadily. With "big men" they could give any team a fit. Riggs led scoring with 16, Mahaffey with 15. Edd Woy led the losers with 12 points.

The upset of the night came in the second game as the Flyers dropped their second game in league play to the ORGDP All Stars. Clark, All Stars, got hot with one hand jump shots after zone defense failed to stop the Star's Graham. Carlos Brooks again led his Flyers in scoring with 13 through the hoop, and Clark scored 17 for the winning combination.

4-Men Eagles Lose

The old rivalry between the Atoms and Eagles, both Y-12 teams, got opened again Thursday, with the Atoms eking out a 15 point victory, 55 to 40. Despite the Eagles manning the court only four-strong, they made it a close game with some fantastic shooting in the first half. In the last two quarters, however, the Atoms wore the high-flying birds down to put the game on ice. Jim George, Atoms, hit his usual high of 18 points; Ralph Vaughan led the vanquished team with 17, and Dan Greaser hit 12.

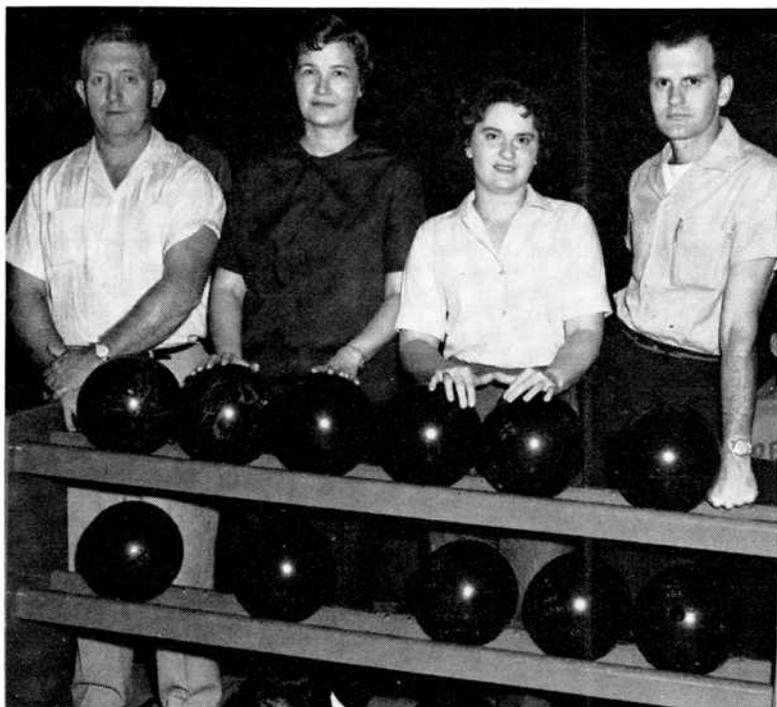
League standings follow:

Team	Won	Lost
Atoms	7	1
All Stars (ORGDP)	7	2
Flyers	5	5
Eagles	3	7
Lab Demons (ORGDP)	2	5
Misfits	1	7

Y-12 Bowling Tourney Is Set February 9, 10

The big Y-12 Bowling Tournament is set for Saturday and Sunday, February 9 and 10. Rules are available from each league secretary in the five Y-12 bowling leagues.

More details on the tournament will follow in next week's Bulletin.



TOP LEADERS IN Y-12'S MIXED LEAGUE for bowlers are shown. Above are the Goofers, second place winners in the first half, and a sure threat to any oncoming team. They are, from left, J. W. Halsey, Virginia Newby, Ella Stansell and W. B.



Stephens. Captain Dary Daws was not present. The other team currently sharing top place with the Goofers is the Cool Cats. From left are J. W. Markland, whose sleepy looks are misleading, Capt. Ann Rackley, Irene Carmack and Nelson Tibbatts.

Rusty 5 Take Slim Topping On Bush Alleys

The Rusty Five polished off their rust last week in the Bush League for Y-12 bowlers. They tromped over the Seven Sixties for the full four-count, as their F. C. Stoetzel took high single games with a 223 scratch, 269 handicap game. He also had high series handicap scores with a 661. C. W. Craven of the same team took high scratch series with 574.

Other wins saw the Hi Balls over the Reagents and the Rollniks over the Dry Hides, both by three points. The Lucky Five and Beavers tilt ended in a draw, as the Rollmasters drew the bye of the week.

The Rusty Five almost dominated the team board by rolling an 884 scratch single, 2818 scratch series, and 2965 handicap series. The Rollniks blocked the total dominations by capturing high handicap singles with 1934.

League standings follow:

Team	Won	Lost
Rusty Five	20	8
Reagents	17	7
Dry Hides	17	11
Lucky Five	14	10
Beavers	12	12
Hi Balls	11	13
Seven Sixties	9 1/2	14 1/2
Rollmasters	8 1/2	15 1/2
Rollniks	3	21

Volleyball League Is Six-Team Strong

Eagles Is Only Y-12 Participant

The Carbide Volleyball League got into high gear last week. One Y-12 team, the Eagles, are entered in the six-team league. The other teams come from Oak Ridge National Laboratory and Oak Ridge Gaseous Diffusion Plant.

The A Shift team took the ORSORT men for three games 16-14, 15-7, and 15-2. The Y-12 Eagles dropped their first three games . . . the Set Ups downing them 15-7, 15-9, and 15-8. Other games featured the Old Men downing Biology 15-10, 15-4, and 15-10. The final game saw the Set Ups take two from A Shift 15-8, 15-12, and A Shift rebound to take one 17-15.

League standings follow:

Team	Won	Lost
Old Men	3	0
Set Ups	5	1
A Shift	4	2
Eagles (Y-12)	0	3
Biology	0	3
ORSORTS	0	3

Markers In Classic Lead By Half Point

Rebels Tiller Rolls A High 234 Scratch

The Markers marked their way to top berth in the Classic League for Y-12 bowlers last week by taking the Tigers for four full points. The only other sweep was registered by the Wolves over the Playboys. Three point wins were taken by the Rippers over the Rebels, the All Stars over the Has Beens, the Smelters over the Screwballs, the Swingsters over the Sportsmen, the Bumpers over the Eightballs, and the Wasps over the Cubs.

Arnold Tiller, Rebels, posted a high scratch single game with a 234, while F. C. Uffelman, Wolves, took high handicap singles with 258. Joe Pryson, Wolves, posted high scratch series of 589, while Rudy Pletz, Has Beens, had high handicap series of 651.

The Rippers took most of the team board with 930 single scratch, 1047 handicap singles, and 2611 scratch series. The Wolves captured high handicap series with 2981.

League standings follow:

Team	Won	Lost
Markers	10	2 1/2
Rippers	9 1/2	2 1/2
All Stars	9	3
Rebels	8	4
Has Beens	7	5
Smelters	7	5
Swingsters	7	5
Bumpers	6	6
Wolves	6	6
Sportsmen	5	7
Playboys	4	8
Screwballs	4	8
Eightballs	4	8
Wasps	4	8
Cubs	3	9
Tigers	2 1/2	9 1/2

Fishing Rodeo Winners Will Be Announced

The Recreation Department has judged the Fishing Rodeo for 1962 and winners in each category will be announced in next week's Bulletin. Entries are already being taken for the Annual Rodeo for the new year. Blanks are available from Recreation.



"Greatest hidden-ball play I've ever seen!"

Ten Pins Have Perfect Score In E League

The Ten Pins continued their spotless record in the E League for Y-12 bowlers last week by taking the Alley Bees across the alleys for four points. Second placed Pinquins also took the full count from the Foursquares, and the Pintwisters took the Cannonballs by three.

Bruce Hogg, Ten Pins, rolled a 201 single scratch game (also rolling a 200 game alongside it); Ray Ellison, Cannonballs, had high scratch series of 540 and high handicap series of 630.

The Pintwisters took high scratch games with 650 singles and 1909 series. The Ten Pins had high handicap tops with 803 singles and 2352 series.

League standings follow:

Team	Won	Lost
Ten Pins	8	0
Pinquins	7	1
Pintwisters	3	5
Foursquares	2	6
Alley Bees	2	6
Cannonballs	2	6

Strikers Gain 1st Slot In C League

C Leaguers in the Y-12 bowling circles began their second half of play last week, after a two-week's rest during the holidays. The Strikers gained first place by the only lock of four points over the Lucky Strikes. Three point wins were posted by the Big Five over the Rodders, the Hi Lifers over the Screwballs, the Par Busters over the Rounders, and the Sunflowers over the C Shift team.

Tom Overton, Ramblers, led single game scoring with 237 scratch, 255 handicap scores; while Joe Delmonte, Strikers, took series tops with 610 scratch and 700 handicap totals. The Big Five took singles with 961 scratch and 1083 handicap tallies; while the Sunflowers took series tops with 2694 scratch and 2988 handicap totals.

League standings follow:

Team	Won	Lost
Strikers	4	0
Big Five	3	1
Hi Lifers	3	1
Hookers	3	1
Par Busters	3	1
Sunflowers	3	1
C Shift	1	3
Rodders	1	3
Rounders	1	3
Screwballs	1	3
SP's	1	3
Lucky Strikes	0	4

Each employee is on the Y-12 security team.

Goofers - Cool Cats In Mixed Alley Lead

Howard Gibbs Leads Individual Scoring

The Goofers and Cool Cats moved into a tie for first place last week in the Mixed League for Y-12 bowlers. The Goofers galloped over the Phantoms for three points, while the Cool Cats slew the Alley Cats by the same count. The Ghosts overcome the Scrappers, and the Pin Plasters topped the Toppers by the same count of three.

Georgia Rader, Pin Plasters, dominated women scoring in singles with a 171 scratch, 218 handicap game. She also took scratch series highs with a 444. Sandra Stephens, Toppers, took high handicap series with a 606 posting. Howard Gibbs, Toppers, dominated men's scoring with scores of 189, scratch 235, handicap in singles and 607 handicap series. Charlie Gillihan, Ghosts, blocked Gibbs' total sweep by taking scratch series with 529.

The Ghosts captured team honors with scores consecutively of 657, 815, 1823, 2287.

League standings follow:

Team	Won	Lost
Goofers	6	2
Cool Cats	6	2
Phantoms	5	3
Alley Cats	5	3
Ghosts	4	4
Pin Plasters	4	4
Scrappers	1	7
Toppers	1	7

'Hamlet' Opens Tomorrow In Ridge

"There are more things in heaven and earth, Horatio, Than are dreamt of in your philosophy."

The Oak Ridge Playhouse will ring up the curtain tomorrow, Thursday, January 17 on William Shakespeare's "Hamlet." Regular performances will be given Thursday, Friday and Saturday, January 17, 18, 19 and the following week-end January 24, 25 and 26. A student performance will be featured Saturday, January 19 at 1:30 p.m., but most tickets for this showing are already gone.

This is the first time Shakespeare's immortal play has been here, and marks a return to the Bard's repertory which has proved so popular in the past with Oak Ridgers. An additional performance is being considered for Sunday, January 27, if the demand is great enough. "Hamlet" curtains are at 8:20 p.m. each performance. The telephone number at the box office is Oak Ridge 483-1224.

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

UNION CARBIDE
NUCLEAR COMPANY
 Division of
Union Carbide Corporation
 Post Office Box Y
 Oak Ridge, Tennessee

RETURN POSTAGE GUARANTEED

POSTMASTER: DO NOT FORWARD. IF ADDRESSEE HAS MOVED, RETURN TO SENDER IMMEDIATELY.

Omer J. Rhea Family Boasts Two Sons In Air Force; One In England, One In Texas



Tommy L. Rhea



Ronnie J. Rhea

The Omer J. Rheas, 104 Verbena Road, Oak Ridge, say, "We are just one big Air Force family." Their two sons Tommy L. and Ronnie J. Rhea are both serving with the United States Air Force.

Tommy L. Rhea has just finished his basic training at Lackland Air Force Base, Lackland, Texas. The Rheas enjoyed a recent visit from Tommy who was on furlough to await reassignment . . . to Amarillo, Texas.

The older son Ronnie J. Rhea trained at Lowry Air Force Base, in Colorado, and has been in Germany, but is now in London at Weathersfield Air Force Base. He is married to the former Mary

Lou Chilton, daughter of Mr. and Mrs. George S. Chilton. Chilton is an Oak Ridge National Laboratory employee in Y-12.

Both Tommy and Ronnie are graduated from Oak Ridge High School, the younger finishing in 1962, the elder in 1960.

James H. Maupin, son of Mrs. June Maupin, Plant Laboratory, is also serving with the Air Force in Germany. He graduated from high school in the same class with Ronnie. Jimmy writes his mother that Germany sure is a pretty country, despite the heavy snows. June writes her son back that she haven't exactly been having tropical weather here!

6-11381



Robert B. Burditt

Burditt Gets Degree In Physics At UT

Carbide Executive Is Graduation Speaker

Receiving his Master's Degree in Physics December 15, was Robert B. Burditt, Metallurgical Development. He received his degree from the University of Tennessee. Kenneth Rush, executive vice president, Union Carbide Corporation, was the commencement speaker at the UT graduating exercises.

The young metallurgist came to Y-12 October 21, 1957, after having spent five years in the United States Navy. He had previously attended Union Junior College, Cranford, N. Y., and holds a BS in ME degree from the Massachusetts Institute of Technology, Cambridge, Mass. He is a native of Elizabeth, N. J.

Married to the former Sarah Jeanette Farley, Burditt lives with his wife and children at 196 North LaSalle Road, Oak Ridge.

GO WEST . . . GO WEST

Chances of marriage for American girls are better in rural areas and improve as the female population takes their chances in the West.

Don't be an invitation to espionage.

Employee's Letter

Continued from Page 1
 ment, safety meetings, and the safety department.

"So I should like to say let's all get behind the program of "Accident Free in '63." It makes good sense and pays huge dividends, some of which we may never realize."

Signed:
 Anthony A. C. Hitchcock

BUILT-IN PRESTONE

Some ants generate alcohol in their bodies to keep them alive during the freezing months of winter.

What Is A Reactor?

Continued from Page 1

More than 100 research, testing, medical and production reactors are in operation throughout the United States.

As of September, 1962, the nine civilian nuclear plants operating in this country produce more than 4.3 billion kilowatt hours of electricity. Another 13 plants are expected to be in operation the middle of this year. The United States then will have an installed generating capacity of more than one million kilowatts of electric power. Nuclear plants are also operating today in Canada, France, West Germany, the Soviet Union and the United Kingdom.

Are reactors safe? First, there is no possibility that a reactor can explode like an atomic bomb. The chain reaction by which a reactor works is a controlled reaction—not the instantaneous fissioning of a large amount of atomic materials involved in a bomb explosion. Should a power reactor go out of control, for example, the principal nuclear damage would be a melting of its core from the great heat associated with the fissioning materials.

There would be little chance of escape of large quantities of radioactivity into the atmosphere.

Design Carefully Controlled

Finally, design, construction and operation of all types of reactors—whether for power, research or other purposes—are carefully controlled by strict AEC regulations with public safety uppermost in mind.

College and university campuses, hospitals and other medical and research centers, public and private laboratories and public and investor-owned installations and utilities today are the sites of many reactors, large and small, performing a wide variety of tasks.

More can be expected to dot the landscape tomorrow as the Nation's atomic energy program continues to expand.

Nichols Sculpture Is Exhibited Again Sunday

Sunday, January 20, is the final day for the exhibit of modern sculpturing and drawings of Philip Nichols, University of Tennessee. The Oak Ridge Art Center is open Sunday from 3 to 6 p.m. The Center is located at Outer Drive at Ogden Lane, Oak Ridge.

Tennessee Sales Tax Given As Income Tax Filing Guide

Tennessee residents may use the table below of average state tax deductions as a guide in preparing their 1962 tax returns (on form 1040, not 1020, as stated in last week's Bulletin.)

The normal deductions shown below would not be questioned by federal tax examiners. Technically, proof is required for each deduction claim.

Tax-payers using the "short form" or the standard 10 per cent deduction, may not use sale tax as a deduction in preparing their

income tax rates. Large purchases, such as automobiles, etc., may be added to the figures below as a sales tax deduction. However, IRS advises that proof of such an outlay should be kept, in case it is questioned.

The filing deadline is Monday, April 15, at midnight. The Collector of Internal Revenue advises early filing however, especially for tax-payers with refunds due them. W-2's to Y-12ers were placed in the mails last week.

Meanwhile, happy filing!

Adjusted Gross Income	Single Person	Two Persons	Three Persons	Four Persons	Five Persons	Six or more
Under \$1000	\$ 9	\$ 16	\$ 23	\$ 33	\$ 36	\$ 37
\$1000 under \$1500	24	28	30	33	36	37
\$1500 under \$2000	31	35	38	40	43	45
\$2000 under \$2500	37	44	46	49	54	57
\$2500 under \$3000	43	52	54	57	64	67
\$3000 under \$3500	50	60	63	65	72	76
\$3500 under \$4000	55	66	70	74	81	85
\$4000 under \$4500	61	73	78	83	90	95
\$4500 under \$5000	67	80	86	91	98	105
\$5000 under \$5500	72	88	93	99	106	114
\$5500 under \$6000	77	94	100	106	114	124
\$6000 under \$6500	82	100	106	114	122	133
\$6500 under \$7000	86	104	111	120	129	142
\$7000 under \$7500	89	108	116	126	137	151
\$7500 under \$8000	92	112	121	132	144	159
\$8000 under \$8500	95	116	125	137	150	167
\$8500 under \$9000	97	120	129	142	156	175
\$9000 under \$9500	99	124	132	148	162	183
\$9500 under \$10,000	101	128	135	153	167	192
\$10,000 under \$11,000	103	131	140	160	174	200
\$11,000 under \$12,000	104	135	144	167	182	213
\$12,000 under \$13,000	105	138	146	173	188	224
\$13,000 under \$14,000	106	139	147	178	193	235
\$14,000 under \$15,000	106	140	148	181	197	244
\$15,000 under \$16,000	107	140	148	183	199	251
\$16,000 under \$17,000	107	141	149	184	200	258
\$17,000 under \$18,000	108	141	149	184	200	258
\$18,000 under \$19,000	108	142	150	185	201	259
\$19,000 under \$20,000	109	142	150	185	201	260



Karns community to any portal, straight day. E. J. Delaney, plant phone 7616, home phone Knoxville 588-1106.

Four riders wanted from Solway Highway, Ball Road, to East or North Portal, straight day. C. E. Graves, plant phone 7549, home phone Knoxville 588-9092.

Ride wanted from West Haven Village, to Biology Division Portal, straight day. C. W. Shook, plant phone 7-8894, home phone Knoxville 523-1171.

Ride wanted from North Knoxville, corner Broad and Fairmont, to North Portal, G Shift. Harry Tobe, plant phone 7-8298, home phone Knoxville 687-5060.

STANDING ROOM ONLY

The Coliseum in Rome held about 100,000 spectators, of whom about 87,000 could be seated. The remaining 13,000 stood.

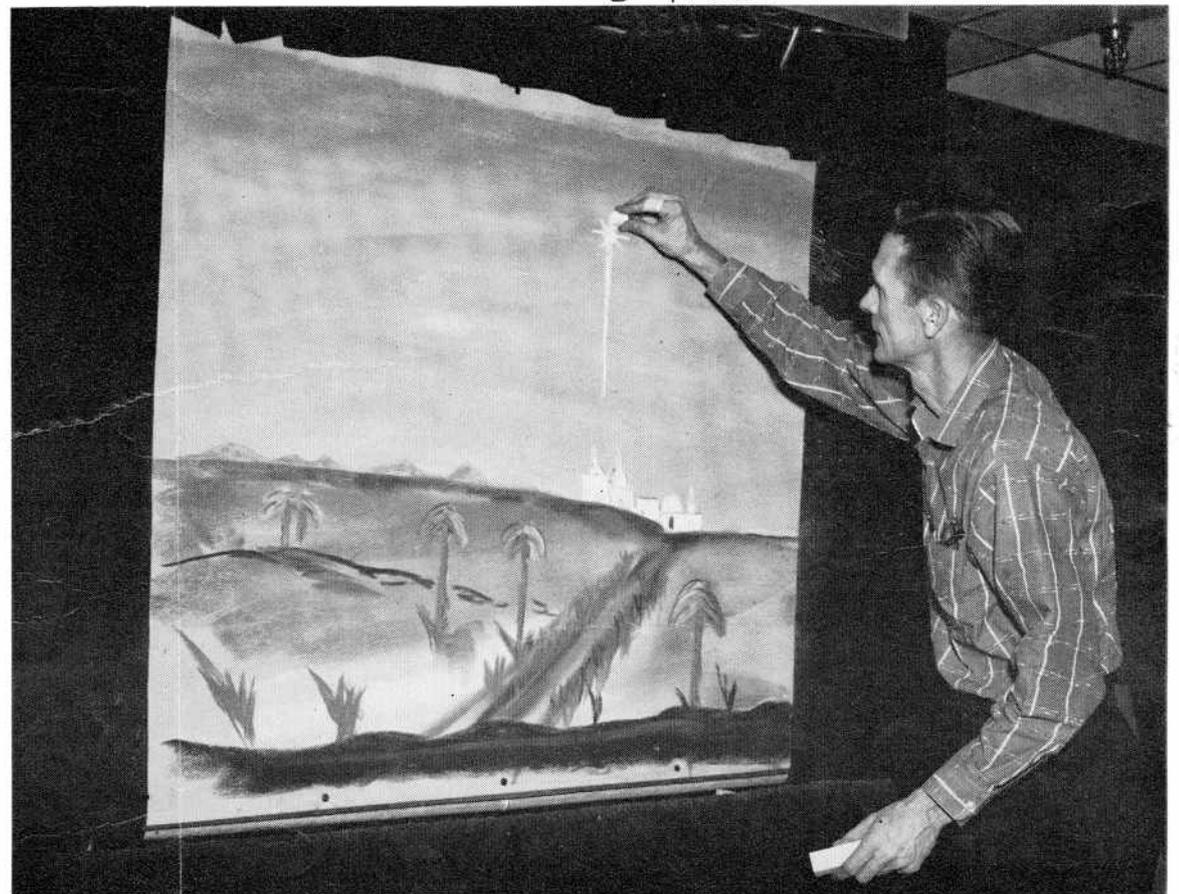
Two riders wanted from Pine Hills, Harriman, via Blair to West or Bear Creek portals, straight day. R. W. Curtis, plant phone 7-8465, home phone Harriman 882-9291.

Ride wanted from Arlington Section, Knoxville, to North Portal, straight day. Judy A. Davis, plant phone 7-8944, home phone Knoxville 687-3197.

Ride wanted from Lenoir City to East Portal, straight day. I. D. Conner, plant phone 7-8237, home phone Lenoir City 986-3419.

Three riders wanted from

6-11362



ANOTHER Y-12 TRADITION was observed during the holidays, as L. C. "Betsie" Martin, Area Five Maintenance, gave his popular 'chalk-talk.' With luminous chalk, Martin tied his "magic" drawing into the safety theme for his group prior to the Christmas holidays. After the picture is completed, the lights go out, and the painting is still visible, effectively depicting the "little town of Bethlehem."