UNION CARBIDE

—Y-12 BULLETIN

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

VOL. 20 — NO. 42 | OAK RIDGE, TENNESSEE | Wednesday, October 19, 1966

117366

Y-12'S UNITED FUND CAMPAIGN QUOTA BY DIVISION

Division	Quota
Accounting, Budget & Scheduling	$ 1,010
Assembly	3,696
Development	5,737
Engineering	7,001
Fabrication	19,730
Industrial Relations	1,365
Maintenance	20,608
Materials & Services	3,031
Metal Preparation	9,242
Product Engineering	1,554
Shift Superintendents & Utilities	4,305
Superintendents	1,447
Technical	10,111
TOTAL PLANT QUOTA	$88,726

Divisions' Quotas Are Given As United Fund Drive Is On

Does my Division have a quota in the current United Fund? The plant's quota of $89,000 is broken down by division, fairly distributed by payroll in each department. (You may obtain your own department's "Needed Share" Quota from your solicitor.)

Meanwhile, the first report of pledges began coming in Monday, October 17. (The Bulletin will begin tabulating division results in next week's edition.)

A slide projector is being installed in the lobby of the Cafeteria to inform employees of the progress made in this year's campaign. Day-to-day results will be shown in the sound-on-film show.

Solicitors in every department are urging employees to participate in the payroll deduction method of contributing to the United Fund of your choice. This breaks down into giving a little at a time . . . so that you hardly notice it . . . and it makes it convenient for the agencies involved. (They receive a check each month from our Payroll Office.)

Meanwhile, Red Cross officials have reported that Hurricane Betsy . . . the devasting hurricane in the Mississippi-Louisiana area . . . will rank as the most costly hurricane operation in the organization's history.

Zooming costs may even rank Betsy as the third most costly disaster operation of any kind. So far, more than 29,000 families have already applied for help, and 4,000 more are expected to seek assistance. More than 800 Red Cross staffers are now on the job, plus over 10,000 volunteer workers.

Latest figures show that Betsy killed 59 persons; injured some 17,552 . . . of which 673 were hospitalized. Damage to homes: 1,568 destroyed; 21,188 with major damage; and 136,715 with minor damage.

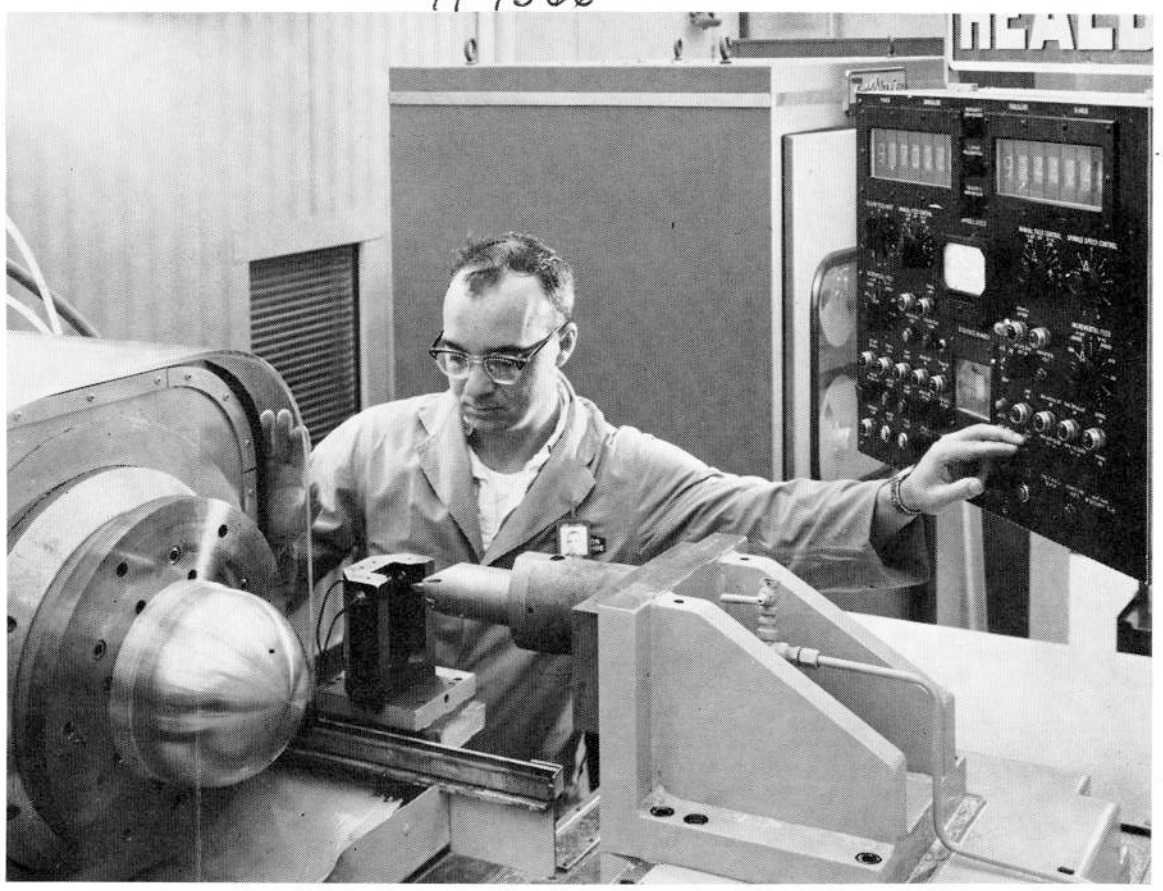
A total of 167,752 families in the two state area suffered loss and the Red Cross has provided early mass care for more than 200,000 disaster victims and emergency workers.

Red Cross assistance to disaster victims is an outright gift. No loans are made; no repayment is required or expected.

That's where part of your United Fund dollar goes. None of us is immune to disaster, either. Although we are rarely affected by hurricanes, disaster can, and does strike our own area.

Have you pledged your "Needed Share" yet?

6-13170



A. L. HALL, G-3 PROCESSING, operates an automatic tool-setter system for use with a numerically-controlled turning machine. The system was developed in Y-12, and cuts down on the possibility of operator error. J. B. Richards, Mechanical Development, recently described the innovation at the Seventh International Machine Tool Design and Research Conference, Birmingham, England.

Automatic Tool-Setter System Developed In Y-12

An automatic tool-setter for use with a numerically - controlled turning machine has been developed in Y-12.

The device automatically aligns the machine's cutting tool in relation to the work piece, thereby eliminating a possible source of operator error.

The system senses the relative positions of the tool and the work piece, once the work piece is attached to the spindle. If the relationship is incorrect, the system signals the motor control units to adjust the work and tool slides until the correct relationship is obtained.

The tool-setter assures repeatability of tool path accuracy even after cutting tool replacement.

Fabrication and installation of the system, requiring no radical changes in the tape program, cost approximately $4,000.

The device is considered an important step in the continuing development of error-free machining of materials used in the nation's space, defense and nuclear energy programs.

(A paper describing the use and fabrication of this automatic tool-setting system was presented by J. B. Richards, Y-12's Mechanical Development, at the Seventh International Machine Tool Design and Research Conference, Birmingham, England, held in September of this year.)

DIRT BRICKS

Bricks made from dirt may one day compete with fired clay bricks and concrete blocks as construction materials. Dirt bricks are a mixture of asphalt and soil along with certain chemical additives (depending on the kind of soil used) which are compressed under high pressure and cured.

SAFETY SCOREBOARD

The Y-12 Plant Has Operated
55 Days Or 1,586,000 Man-Hours Through October 16
Without A Disabling Injury
Phone 3-7755
(Unofficial Estimate)
For Daily Report
On Accident-Free Hours

Y-12 Credit Union Sets Open House Sunday, October 30

Come help your Credit Union celebrate its Fifth Birthday in its new office. An Open House will be held by the Y-12 Credit Union, Sunday, October 30, from 2 until 5 p.m. There will be cash door prizes, coffee and cookies, and a chance to meet the staff and talk.

Door prizes will include a first prize of $50, one $25, one $10 and three $5 for runner-up. You must be a member to be eligible for these drawings . . . so bring your badge along for proof of membership when you register at the door.

For non-members and family members there will be a first place drawing for $10 and two for $5.

There will be an information desk where employees may sign up for membership (members joining on that day will be eligible to participate in the drawings as any member can). At the desk will also be information on loans for real estate, autos, educational and others; personal counciling, the Savings Plan, and any other information you may want to know about your Credit Union.

The hospitality table will have coffee and cookies for all guests . . . members or no.

So plan to come on out and help the Y-12 Credit Union celebrate its Fifth Birthday in the handsome building on Lafayette and Illinois Avenue. It's also International Credit Union Day to make the celebration a double-barreled affair.

Remember, that date now . . . from 2 til 5 p.m., Sunday, October 30.

Also remember, THE CREDIT UNION IS YOURS . . . USE IT!

THE METAL PREPARATION DIVISION has solicitors for the United Fund distributed in all of its locations. Seated, from left, are Hallie Wade, Ruth Wright, Denny Roberts, Ed Isham, Bob McAlister, Marcus Potter and Jim Thorpe, divisional chairman. Standing in the first row are George Kirtland, Omar Hatmaker, Warren Seymour, Al Hinton, J. O. Stephens, Jim Parker, W. F. Smith, an unidentified solicitor, and Henry Swallows. In the back row are Ed Crass, Larry Webb, Ted Higgins, Spence Wallace, Dewey Nichols, V. C. Beckner, John Pyatt, Al Fisher, and Lon Dunsmore. Apologies to the unidentified man . . . we tried.

6-13171

The Bulletin

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

UNION CARBIDE

NUCLEAR DIVISION

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Huber Delivers Paper For AWS

Richard A. Huber, Metallurgical Development, delivered a paper at the American Welding Society's National Fall Meeting, held in St. Louis the first week of October. The paper was co-authored by P. W. Turner, also of Y-12's Metallurgical Development.

"Electron-Beam Welding" was the subject of the invited paper. The first electron-beam welder was installed in Y-12 in 1961. It was an early model, and appeared from working that many of the claims for electron-beam welding had been over-stated. Enough work was accomplished, however, to indicate that the process did have potential applications.

The "heart" of an electron-beam welder is the electron gun which generates and shapes the electrons into a usable beam. It consists of a heated cathode, usually made of tantalum or tungsten, which emits electrons. These electrons are accelerated and shaped by the potential between the cathode and anode with suitable forming electrodes or grids.

The electron-beam welding process has grown from a laboratory curiosity to a production tool in a relatively short span of years primarily because of its unique ability to provide very narrow, deeply penetrating welds which give a minimum of distortion and shrinkage. Some of the other publicized advantages include welding or refractory and reactive metals, welding in a high-purity vacuum environment, welding unusual dissimilar metal combinations, and even welding of ceramics.

Huber also described some of the advantages to the system in the paper. He concluded by describing some of the many safety features of the electron-beam welding equipment, stating: "It appears that the equipment is at least as safe as conventional welding equipment where an operator may come in contact with high current during the welding operation. There have been no accidents of any kind associated with either the operation or maintenance of the electron-beam welders since their installation."

'J-Arc Facility' Topic At Thermonuclear Talk

J. F. Potts, Thermonuclear Division, will conduct this week's seminar. His subject will be "The J-Arc Facility: Its Engineering Features and Experimental Possibilities."

The seminar is set for tomorrow, Thursday, October 20, at 9 a.m. in the TD Conference Room, Building 9201-2.

Katy Kutkost SEZ:

ACID ALLERGY SPURS IMPROVEMENT!

In hot forming parts from flat metal plate, it is often necessary to seal the metal in a double-walled, thin steel wrapper to keep the metal from oxidizing during the pre-heat step.

After schronching the assembly in a press to the desired shape, it's then necessary to shell the nut. The normal method consists of acid dipping which dissolves the steel and hopefully does not disturb the metal part.

Handling acid at best is a mess. Don Scott and Paul Turner, Metallurgical Development, think so too. They've got the problem half licked. The outer wrap is now removed by applying heat to the steel while keeping the inside metal cool. This scheme picks up over $2,000/year excluding savings by not exposing product metal to acid. Don likes the new way so much he doesn't plan to stop till he can remove the inner wrap the same way.

P. S. About last week's plant laboratory water analysis savings. We want it known that Bob Thornton supplied the brainwork. Joe Stewart's assistance was purely administrative. That takes brains, too . . . but of a type not as rare.

ORCMA Coffee Concert Set Sunday, October 23

The Oak Ridge Civic Music Association presents its first Coffee Concert this Sunday, October 23 . . . two performances at 7:30 and 9 p.m. The concerts will be held in the sanctuary of the Unitarian Church.

The Oak Ridge Quartet (Irving Spiewak, first violin; Jacinta Howard, 2nd violin; Ray Blanco, viola; and Waldo Cohn, cello) will perform a String Quartet by Mendelssohn. James Bresee, baritone, will sing songs of his own selection, accompanied by Mrs. Ruth Fisher at the piano. James and Barbara Marabel (cellist and violinist) will play a selection by David Van Vactor, director of the Knoxville Symphony Orchestra.

The ORCMA coffee concerts are free an dopen to the public. Refreshments are served during intermission.

A FRIEND IS A FRIEND

A friend is the fellow who is running in to help when the rest of the world is running out.

THE ASSEMBLY DIVISION assembles nine of its United Fund solicitors who will call on fellow employees this week. They are from left, J. K. Raper, Toy Moon, Jim Wylie, Ernie Collins, John Brown, A. J. Price, Bill Gross, E. T. Taylor and Kenny Baker.

Two riders wanted to join car pool from East Village, Oak Ridge, to North or Biology Portals, straigh day. J. R. Cullipher, phone 3-5944, home phone Oak Ridge 483-1943.

One car pool member wanted from Rocky Hill vicinity, Knoxville, to any portal, straight day. J. K. Cox, plant phone 3-5281, home phone Knoxville 588-0143.

Ride wanted from Lenoir City to North Portal, straight day. Betsy Dutton, plant phone 3-5048, home phone Lenoir City 986-3681.

Ride wanted, or will join car pool, from Clinton (vicinity of Walker Chevrolet) to Central or West Portal, straight day. Benny Houser, plant phone 3-7201, home phone Clinton 457-1197.

Dance Group Meets Thursdays At 9 p.m.

Single? Like to dance? Or would like to learn how? If you are single and interested in dancing or learning to dance, you are invited to the Coral Room of the Ridge Recreation Hall every Thursday at 9 p.m.

There will be a special Halloween Party Thursday, October 27. A special effort is currently being made to enlarge the group . . . so come on out and get acquainted.

United Fund

- More families — 25,000,000 — are helped by United Fund programs than by any other voluntary effort.
- United Fund volunteers — more than 7,600,000 — lead and serve their communities through their United Funds, Community Welfare Councils and member agencies.
- From Labor Day to Thanksgiving 2,225 United Fund and Community Chest campaigns are conducted.
- In 1965 a record $615,000,000 was contributed through United Fund campaigns.
- More than 30,500,000 individuals, groups and corporations contributed to the United Fund.
- These once-a-year appeals support 30,000 local, state and national health, welfare and recreation agencies.

AEC Procurement Aids Tennessee Economy

Tennessee firms furnished more than $16,000,000 in supplies, equipment and services for Atomic Energy Commission activities here during fiscal year 1966.

The purchases were reported by Union Carbide's Central Procurement Office which listed total procurement in fiscal year 1966 at approximately $50,000,000.

In addition to Tennessee, other southern states sharing in the procurement were Georgia ($4,695,000); North Carolina ($786,000); and Kentucky ($198,000).

DEVELOPMENT DIVISION SOLICITORS for the United Fund include (seated from left) Fred Childress, Harwell Smith, Jeannette Bieber, Anna G. Dobbins, Norris Parrott, Harlan Wright and R. E. Webb, division coordinator. Standing are Jerry Cadden, Bill McWhorter, Ed White, John Hurst, Robert Hobbs, Joe Arrowood, and Bill Maxey.

Lunar SNAP-11 Test Successful

A nuclear generator designed originally for use on the moon has successfully completed a 90-day test under simulated lunar conditions at Oak Ridge National Laboratory.

The 20-watt generator, designated SNAP-11, is fueled from the largest amount of the radioisotope curium-242 ever assembled. The test represents the first demonstration of electric power production from this isotope in a thermoelectric generator.

The Martin Company, Baltimore, developed the generator for the Atomic Energy Commission; and ORNL produced and encapsulated the curium fuel and conducted the test.

SNAP-11 was developed as part of the AEC's Systems for Nuclear Auxiliary Power program, and is one unit of several in the series designed for use in space exploration. Successful completion of the 90-day test demonstrated significant advances in radioisotope power technology which will be beneficial for future use of isotopic fuels for space missions.

The use of curium-242, which has a half-life of 162 days, permitted fabrication of the most concentrated isotopic power course to date, resulting in considerable savings in total weight of the power generation system. As the isotope decays, it gives off heat which is converted directly into electrical energy by thermoelectric elements grouped around the fuel core.

The test of SNAP-11 began on July 12 in a vacuum chamber designed to permit the extreme temperature variation necessary to simulate lunar conditions. The test schedule provided for operation of the unit for five days in the vacuum chamber at minus 235 degrees Fahrenheit simulating lunar night and then for 80 days at 235 degrees Fahrenheit representing the lunar day. This was followed by another five days under lunar night conditions. The schedule was revised to substitute an additional 24 hours of operation under lunar night conditions to provide for more data.

The production of curium began about 13 months ago at ORNL with fabrication of americum-241 target rods. These rods were irradiated to produce the curium fuel. Twenty grams of curium were produced and separated, and 7.5 grams or 25,000 curies providing 900 thermal watts at the time of encapsulation, were used as fuel for the generator.

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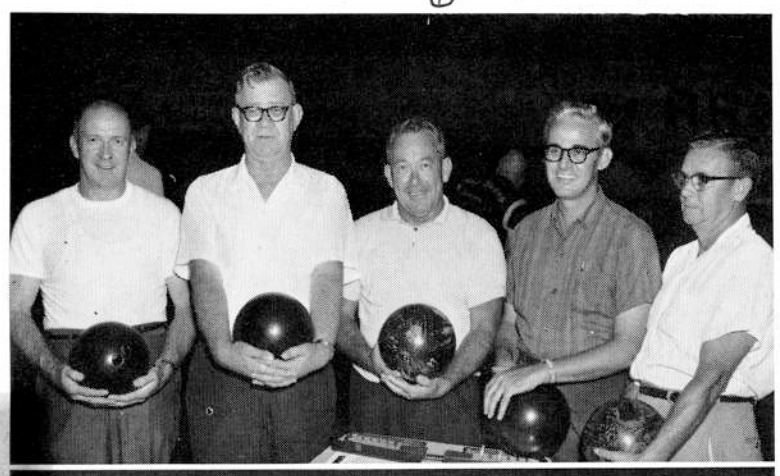

OLD-STANDING TEAMS IN THE CLASSIC Bowling League face the firing squad. At top, the Splinters—from left, Elmer Johnson, John S. Reece, Frank Thurman, M. C. Bays, and R. G. Marlar. Captain Harry Keen was getting a drink of water when the picture was made. In the lower picture, the All Stars—Otto Briscoe, Captain Tom Pappas, Bill Hackett, Al Townsend and H. D. Whitehead.

Bumpers Bump Eightballs To Assume Classic Bowling League's Top Spot

The Bumpers barged their way into first place in the Classic Bowling League last week . . . thanks to a three-point win over the Eightballs.

Big sweeping four-point wins went to the Swingsters over the Screwballs, the All Stars past the Smelters, the Tigers over the Splinters, and the Playboys past the Eagles.

Three pointers were picked up as the Cubs overcame the Rebels, the Markers out-marked the Has Beens and the Rippers tore into the Wasps.

Ed Beeler, Playboys, rolled high in single counting, a 231 scratch, 264 handicap game. Clyde Crave, Bumpers, bowled a 574 scratch series and Dave Smith, Playboys, played a 644 handicap series.

The Swingsters swung onto the boards in scratch tallies . . . singles of 882, series of 2531 . . . and the Tigers posted high in handicap count . . . singles of 1038, series of 2999.

League standings follow:

Team	W	L
Bumpers	16	8
Smelters	15	9
Cubs	14	10
Swingsters	14	10
Rebels	13	11
Has Beens	13	11
Markers	13	11
All Stars	13	11
Tigers	13	11
Screwballs	12	12
Eightballs	11	13
Splinters	10	14
Rippers	10	14
Wasps	9	15
Playboys	9	15
Eagles	7	17

SOME CURE

Psychiatrist: "Congratulations . . . you are now cured."

Patient: "Some cure. I came in here as Napoleon . . . now I'm just another nobody."

Basket-Volleyball Players Paged!

Tall men of the world, unite! Or you short ones that like to play basketball, join the party too.

The Recreation Department is already making plans for the Basketball League's beginning. There will be teams from all three Union Carbide plants in these environs . . . just like last year. Play will probably be on Monday and Wednesday, just as usual also.

If you have a team already organized, or want to get on a team . . . just give Recreation a ring . . . at extension 3-7109.

(We were just kidding about that tall stuff, too!)

The Recreation Department is also paging Y-12ers interested in volleyball action. The plant had four big teams in last year's V-Ball League . . . and the Beavers took the big crown.

Volleyballers, you should call the same number . . . 3-7109.

Rollers Keep Slim Mixed Edge

The Rollers kept a slim lead in the Mixed Bowling League last week despite a three point loss to the Roses 'N Thorns. Other teams moved up, taking four point sweeps from their opponents, as the Twisters tamed the Alley Cats, the Goofers galloped past the Hits & Misses, and the Novices cornered the Mustangs.

Dixie Stinnett, Twisters, rolled a 167 scratch, 220 handicap single to capture female honors. Libby Scates, subbing on the Goofers' squad, scored a series of 435 scratch, 597 handicap. Male bowlers saw C. R. Lively, Rollers, roll a 221 scratch, 239 handicap game. His 525 scratch series was high also. Paul Hatmaker, Novices, sallied forth with a 625 handicap series.

Team honors were gleaned by the Rollers, posting a 673 scratch, 822 handicap single score. The Mustangs mustered a 1786 scratch series . . . and the Rollers returned to the boards with a 2334 handicap series.

League standings follow:

Team	W	L
Rollers	15	9
Twisters	14	10
Mustangs	14	10
Goofers	13	11
Novices	12	12
Alley Cats	11	13
Roses 'N Thorns	10	14
Hits & Misses	7	17

Shifters Planning Smallmouth Rodeo

The alphabet-soup Shift crowd (E, F, G, H and J) have gone all-out for their big Smallmouth Bass Tournament Saturday. Just look at the prizes.

For the biggest smallmouth (fish, that is) a single barrel 12-gauge shotgun will be given away. In descending order, other prizes are an umbrella tent, Coleman camp stove, sleeping bag, chest cooler, fly rod, boat seat, automatic fly reel, fish barometer and hunting knife, Sportsman's lantern, belt axe and boat net, tackle box and fish balance . . . and a dock award yet to be chosen.

Boat reservations at Stardust will have to be made by each fisherman himself. They may call Oak Ridge 494-7997 for reservations. Laverne and Dale Culbertson say that bait, food, drinks and all accessories will be available at the dock.

Registration for the Rodeo is from 6 until 10 a.m. . . . weigh-in period from 4 p.m. until 5 p.m. This contest is for the smallmouth bass only, and minimum weight is 12 ounces.

Any Y-12 employee or member of his immediate family is eligible to participate. That's Saturday, October 22 . . . Stardust Boat Dock . . . Norris Lake.

"Buxton is responsible for more rejects that anyone else in the plant, but worse than that is his attendance—it's perfect."

Polaroid

Y-12ER G. W. BREWER SWINGS at a fast one in the Table Tennis League. League action began recently as 20 employees from the three UCC installations make up the two leagues. Ping pong is played each Monday night at 7 p.m., at the Wildcat's Den.

Recreation

Saturday, October 22

SMALLMOUTH RODEO: 6 to 5 p.m., Norris Stardust Boat Dock. E, F, G, H and J Shifts. All Y-12ers welcome.

Monday, October 24

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

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

BALLROOM DANCE INSTRUCTION: 7, 8, 9 p.m., Coral Room, Ridge Recreation Hall.

Tuesday, October 25

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

Wednesday, October 26

SMALLBORE RIFLE LEAGUE: 7 p.m., Clinton Indoor Range.

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

Thursday, October 27

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

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

BADMINTON: 7 p.m., Jefferson Junior High School Gymnasium.

Saturday, October 29

TURKEY - HAM SHOOT: B Shift. 8:30 a.m., Oak Ridge Sportsmen's Association.

B Shift Sets Ham-Turkey Shoot Oct. 29

B Shiftmen are planning a big Turkey-Ham Shoot, Saturday, October 29. Firing begins at 8:30 a.m. at the Oak Ridge Sportsmen's Association Range.

First place winners on each relay will win a big turkey . . . and second placers will take a three-pound tinned ham. There will be 23 relays for adults . . . and two for kids (anyone under 16). Every fifth relay will bring a pause for a drawing, too.

Shooting is 50¢ at the shoot.

Come on out for the fun!

$10 MILLION MARKET

Agricultural uses of plastics will account for a market of some $10 million in 1966. One of the most advantageous applications is the use of plastic films to help conserve water and prevent pollution. Used as a covering, plastic film makes arid land more productive. As a ditch lining it prevents seepage in open ditch irrigation. And, as a pond lining, plastic film helps check pollution.

Badgers Lead C Bowling Group

The big Badgers barged forth to change the lead again in the C Bowling circles last week by taking the Rollmasters for the full count. The only other sweep saw the Rodders ram past the Parbusters.

Three point claims were posted by the Sunflowers over the Rounders, the Big Five past the HiLifers, and the Royal Flush 'round the Invalids. Sharing two points were the Strikers and Fireballs.

Clyde Craven, Rollmasters, bowled the high scratch game of the night with a 204. The Fireballs' McPherson and Royal Flush's Woody tied on handicap singles, each with 233. Billy Sise, Big Five, zeroed in on series counting, rolling a 579 scratch, 657 handicap total.

The Rodders counted high on singles, 887 scratch, 1050 handicap. Their 2445 scratch series was high also. The Badgers bowled a 2929 handicap series.

League standings follow:

Team	W	L
Badgers	14	6
Sunflowers	13	7
Strikers	13	7
Rounders	12	8
Rodders	12	8
Big Five	10	10
Fireballs	9	11
Parbusters	8	12
Invalids	8	12
Rollmasters	7	13
Royal Flush	7	13
HiLifers	7	13

Uranium Prospecting Prospects Brighten

Wide-scale uranium prospecting, which was virtually suspended as a result of the limitations on the Atomic Energy Commission procurement imposed in the late 1950's, is now being resumed in this country and a number of other countries. Past exploration in the United States resulted in uranium being discovered in amounts that depended largely on the scale of the exploration. Although future exploration may not discover uranium at as rapid a rate as in the past, the amount of new ore discovered generally will be related to the amount of effort in the search, it is believed.

WHAT'S THE RUSH?

Sure, you're late. You might just make it if you hurry—put on the steam. How many times has this rushed feeling been with you recently? Get smart and give yourself time to get things done without rushing. You'll probably live longer and enjoy each day more.

UNION CARBIDE CORPORATION
NUCLEAR DIVISION

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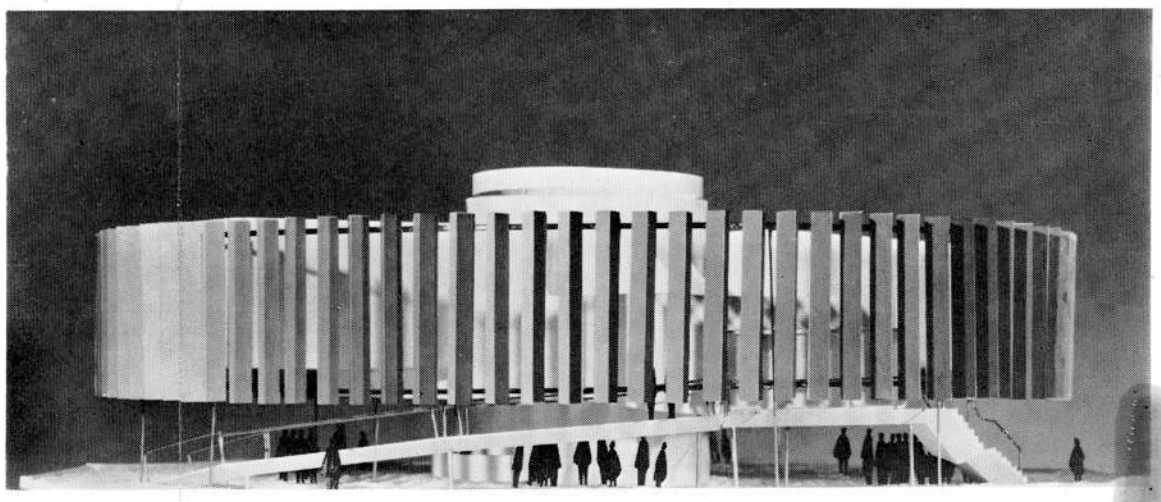


KALEIDOSCOPE—EXPO 67, a pavilion being built in Montreal under the joint sponsorship of Union Carbide Canada Limited and five other major Canadian chemical companies. The noncommercial pavilion will have "man and color" as its theme. Color was chosen as the theme because it is of common interest to all six companies, whose products have helped brighten man's universe. Visitors to the pavilion will experience morning, day, evening, and night color effects in successive stages. Expo 67, an international exhibition that is recognized officially as a world's fair, will open next April 28 and close October 27. "Man and His World" is the central theme of the fair, expected to attract some 30 million people.

After January 1, Bulletin Mailing List Needs Zip! Says Uncle Sam

Hey, there . . . does your address in the above box have a Zip Code number?

Please check it out. About this time last year we sent out a post card . . . and got a healthy return (about 85 per cent) of our supplementary mailing list. This list includes non-employees such as retirees, fellow editors, and other interested parties.

If your Zip Code is missing or incorrect just cut the mailing slot out . . . correct the Zip, or add it, and send it back to the Y-12 Bulletin, Union Carbide Corporation, Nuclear Division, P.O. Box Y, Oak Ridge, Tennessee 37830.

Come January 1, Uncle Sam says if there isn't Zip to the mail (ours, that is) . . . forget it!

"There is something in October that sets the gypsy blood astir." Astir also are a few more fellow Y-12ers marking important dates with Union Carbide Corporation. Congratulations.

20 YEARS

Ernest L. Pugh, Machine Maintenance, October 22.

John M. Johnson, Process Maintenance, October 25.

15 YEARS

Mack D. Wyrick, SS Warehousing and Shipping, October 20.

Cecil M. Lane, Machine Maintenance, October 21.

Baxter O. Crump, A-2 Shops, 9212, October 22.

James W. Doane, Metallurgical Development, October 22.

Frank M. Wise, Stores Department, October 22.

Monroe C. Davis, Janitors Department, October 24.

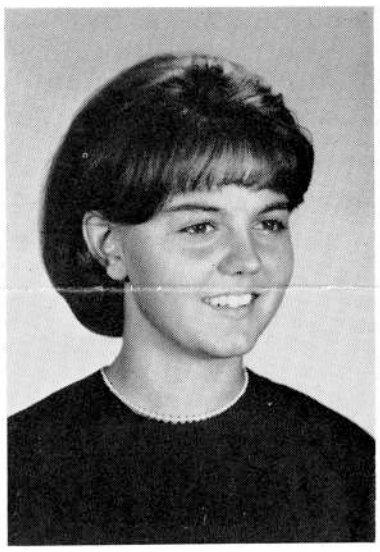
William J. Sims, Buildings, Grounds and Maintenance Shops, October 24.

NEAT PACKAGES

Many of the neat packages you buy in your food market these days are made possible by "plastic with a memory." New "shrink type" plastic packaging films are strethced during manufacture. Store personnel loop the film loosely around meat, vegetables and other products which are then run through a short "tunnel" heated at 250 degrees. The heat unlocks the film's "memory" and it tends to shrink back to its original size, leaving a neat, tightly wrapped package.

"All you have to do to be a good secretary is look like a girl, think like a man, and work like a dog."

UT Nursing School For Y-12 Daughter



Phyllis A. Johnson

E. H. Johnson, General Expediting and Auxiliary Services, is a mighty proud papa these days.

Daughter Phyllis Ann recently won a nursing scholarship, presented by the Benevolent and Protective Order of Elks, Lodge 1684, Oak Ridge. She is presently attending the University of Tennessee Nursing School.

The Johnsons live at 101 Kentucky Avenue, Oak Ridge.

Good Government Comes Only To Those Who Work

Have you ever thought about who was the most important politician in the world? A simple three-letter word is the answer. YOU. If your primary interest lies in good government, the only way you can assure this is get busy. Investigate your precinct . . . many of its workers are professional people like yourself. Interested parties who want a better government for themselves and for their children.

Remember, drones are a drag on the hive. How busy are you?

HOW'S THAT AGAIN?

Poster in Police Department: "Will the person who took the three-layer chocolate cake from the sergeant's desk please return it. It is needed as evidence in a food poisoning case."

Safe conditions are good, but safe men are better.

GED Tests Fill HS Diploma Hole

If, for some reason, a Y-12er failed to obtain his high school diploma . . . there is something he can do about it.

The General Education Development Test (commonly known as GED) is given at the University of Tennessee. Anyone passing this examination is given a certificate showing he has the equivalent of a high school education.

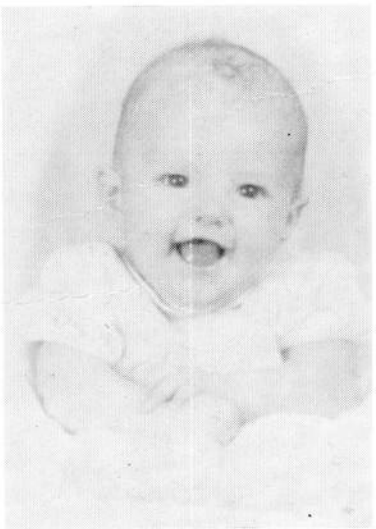
The GED test is in five parts: English Grammar, General Math, Natural Science, Social Studies and Interpretation of Literary Materials. The last three parts are given by the applicants reading paragraphs, then answering multiple-choice questions.

The test may be taken at Temple Court, 804 Temple Avenue, at the University of Tennessee, between the hours of 8:30 a.m. to 5 p.m. Saturday hours are from 8 until 12 noon. No appointment is necessary. Anyone, 21 years or older, may take the examination. There is a $5 fee for the test.

Employees passing the GED test should advise their supervisors so that the information can be recorded in the employee's personnel record.

RARA AVIS—MAN

Man is the only animal that blushes, or apologizes . . . or even has the occasion to.



TAMMY COOK, seven - months old daughter of Clyde and Betty Cook poses for Grand-pa Clyde down in the Fire Department. Tammy who lives at Powell with her folks, seems happy about the whole affair. (Betty is remembered in Personnel by folks in 9704-2.)

Red-Flagged Last Week By Firemen?

Now what?

So you got "red-flagged" last week. What do you do next?

First off, you must get the details . . . just exactly why your working area got a black-eye from the inspection committee. Was it a blocked fire extinguisher? . . . a messy, cluttered area? . . . combustible materials lying around? . . .

In observance of Fire Prevention Week . . . October 9-15 . . . special investigative bodies inspected the entire areas. Throughout every division and building in the plant, these spokesmen and their appointed inspectors took an inventory of fire hazards all over. And they found some.

The next is up to you, because a re-inspection is coming.

Fire Prevention committeemen throughout Y-12 were Eddie Roberts, J. A. Whitten, George Marrow, T. C. Swindell, Frank Broome, J. W. Minchey, H. Phillips, Bob McAlister, Nick Tronolone, Ernie Bentley, Leo Caldwell, Howard Hicks and Bob Helton. Coordinating these efforts was E. F. Greer, Fire Protection Engineer.

(Our area did not get "red-flagged!" The above photo was posed . . . believe it or not.)

Good housekeeping is the front line of defense against fires in the plant. Clean areas are generally areas where fires do not have a place to start. (In last week's Fire Prevention story it was stated that fires require two ingredients . . . ignition and combustible materials. A purist points out that oxygen is also necessary. Well, that we have plenty of, too, thank goodness!)

Remember, fire stalks some 135 industrial plants each day. Industry cannot afford these costs. It results in lost production, lost money, and, more seriously, loss of jobs. Some account for a tragic loss of lives. There the cost gets beyond reason.

Your area was "red-flagged" for your own benefit . . . yours and other employees. When you bring the little flag down, bring the hazard down with it. Make your working area a safe place to be. It's to your own advantage, as well as the rest of the plant's.

Clearing Air On Air Pollution

Let's clear the air on air pollution! First off, it's not a new problem. Senaca complained in 61 A.D. about the "stink" and "pestilent vapours" and soot and the heavy air of Rome. In 1257, Queen Eleanor was forced to leave England's Nottingham Palace because of the "unendurable smoke . . . and in the 17th Century John Evelyn complained that "Londoners breathe nothing but impure and thick mist; so that catharrs, coughs and consumptions rage."

Air pollution has always plagued community life. As a matter of fact, the entire atmosphere never was really "clean."

There has always been natural pollution. Even before man there were occasional excesses of things like volcanic ash, dust, sea-salt nuclei, marsh gases, hydrogen sulfide, pollen, spores, bacteria, radioactive materials and other contaminants.

Man-made pollution, however, can be abated.

The Chemical Industry has pooled its manpower, mindpower and moneypower to combat air pollutants. It not only insures the health and safety of its own 900,000 employees, but it helps neighbor communities solve their problems . . . to find new ways and better ways — through chemical research — to control and prevent future problems.

HOME OWNERSHIP

Reflecting the intimate relationship between home ownership and continued prosperity, persons owning their own home now represent more than five of every eight occupied housing units in the United States. The proportion was about 63.5 per cent in the first quarter of 1966, the highest in the U.S. Bureau of the Census records going back to before the turn of the century.