



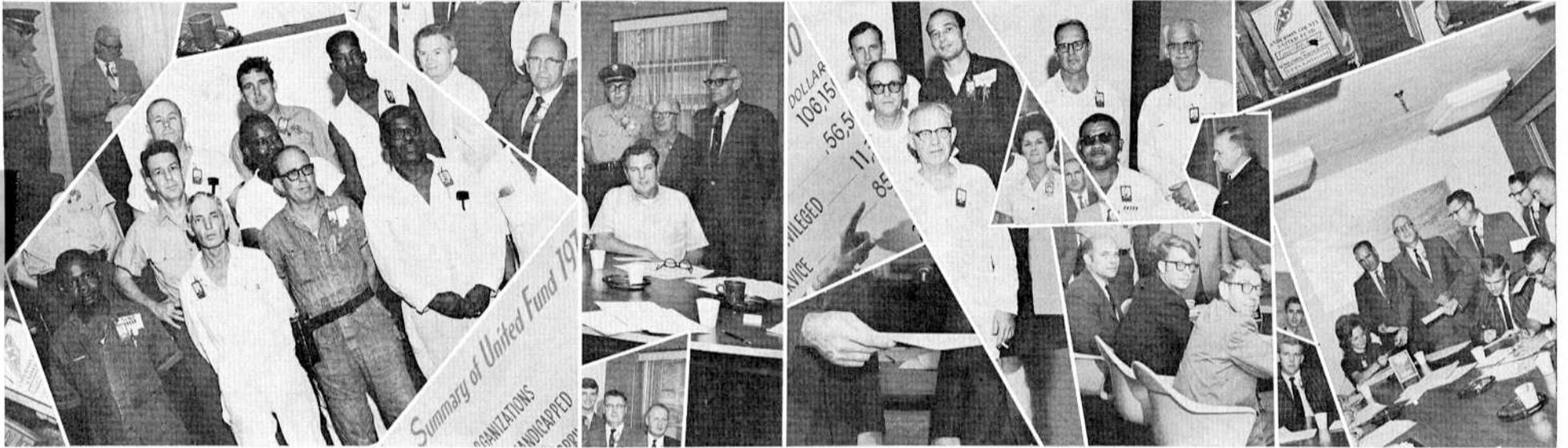
— Y-12 BULLETIN

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

Vol. 23 — No. 41

OAK RIDGE, TENNESSEE

Wednesday, October 29, 1969



INDIVIDUAL EFFORT, more than any other one factor, has put the Y-12 Plant over its goal in the 1969 United Fund. Here are seen some of the key

people who worked diligently for the drive. Each one of the solicitors, chairmen, and co-chairmen, however, did not want any personal credit. 'It is

heart-warming to work with such nice people,' one of the solicitors stated. 'Y-12ers are pretty wonderful folks!'

AEC-Union Carbide Sign New Three Year Contract

The Atomic Energy Commission has extended for another three years its contract with the Union Carbide Corporation for operation of four large AEC plants, S. R. Sapirie, Manager of the Commission's Oak Ridge Operations, announced today.

The plants are the Oak Ridge Gaseous Diffusion Plant, the Oak Ridge National Laboratory and the Y-12 Plant, all located in Oak Ridge, Tennessee; and the Paducah Gaseous Diffusion Plant near Paducah, Kentucky.

Through June 1973

Sapirie said the extension provides for operation of the plants through June 30, 1973.

Production, research and development programs under the contract are conducted in AEC facilities representing an investment of approximately \$2.6 billion. More than 14,000 persons are employed at the four sites.

Union Carbide has been an operating contractor for the AEC and the Manhattan Engineer District since 1943. Roger F. Hibbs is President of the Corporation's Nuclear Division, which is responsible for operation of the AEC installations.

Diffusion Plants

The Oak Ridge and Paducah gaseous diffusion plants produce enriched uranium for both national defense and civilian use and also conduct associated process development and plant test programs. Union Carbide has been the continuous operating contractor of the two plants—in Oak Ridge since 1943 and at Paducah since 1951.

Currently, two two gaseous diffusion plants are providing increasing amounts of enriched uranium for use as fuel for the growing nuclear power industry in the United States and abroad. About 2,800 people are on the payroll at the Oak Ridge plant, and about 1,200 are employed at the Paducah site.

Multi-Purpose Y-12

Y-12, with about 5,800 employees, is involved primarily in engineering and production activities related to the Nation's defense program. The plant, operated by Union Carbide since 1947, also provides extensive support for the programs of the Oak Ridge Na-

tional Laboratory and other Government installations.

Oak Ridge National Laboratory, which employs about 5,000 people, conducts research in virtually all major program areas of the AEC. Union Carbide has operated the Laboratory since 1948.

The Laboratory programs range from basic mathematics to heavy chemical engineering and from basic biology to metallurgy, with much of the effort associated with reactor development and chemical processing.

In addition, the Laboratory carries out basic and applied research programs for other Government agencies through interagency agreements with the AEC. These include cancer research and the efforts to develop more economical methods of desalination through large-scale conventional or nuclear power plants.

FIRST REACTION

The first self-sustaining nuclear reaction was achieved on December 2, 1942, under the grandstand at the University of Chicago's athletic field.

Linde Lectures Set This Week

The American Chemical Society is presenting the annual Lind lectures this week. Professor Milton Burton, University of Notre Dame will be the featured speaker.

Sponsored by the East Tennessee Section of the ACS, the lectures are presented in memory of Samuel C. Lind, a native East Tennessean and long-time consultant at Oak Ridge National Laboratory.

The lectures this year will be on the phenomena in radiation chemistry. Tonight (Wednesday, October 29) Professor Burton will speak at 8 p.m. in Room 114, Dabney Hall, at the University of Tennessee.

Tomorrow (Thursday, October 30) Professor Burton will speak at the Holiday Inn, Oak Ridge. Both lectures are being preceded by a dinner meeting of the ACS.

The Notre Dame instructor has been honored as a Fulbright Lecturer and a Guggenheim Fellow. He is very active in the ACS, serving as chairman of his section and chairman of the society's division of physical chemistry.

The Lind lectures are open to the public.



A JOB WELL DONE . . . E. R. Johnson has been a 'fair share giver' for many years in Y-12. Here C. R. Lively awards the United Fund's 'check pin' to Guard Johnson. The International Guards Union has already passed its goal, along with the entire plant! How about that?

Y-12's First On The Moon In United Fund Campaign!

Over the goal! That was the big word from 'computerland' on Y-12's part in the current United Fund.

Y-12 has already raised more than \$105,000, which represents 104 per cent of its assigned overall goal of \$102,000, and "we're still counting," says J. K. Denton, drive chairman in the plant. About \$59,000 of this total will go to Anderson County UF members and the remainder will go to Knox, Morgan, Roane and Loudon counties.

"This outstanding success reflects the wonderful cooperation and enthusiasm of the whole spectrum of employees at Y-12," Denton said, noting leadership from both management and labor in all phases of the drive. This was the second straight year that Y-12 completed its drive in less than a month.

Commenting on the big victory, Superintendent Jack Case remarked, "Anytime that there is a requirement for individual response to a worthy cause, you'll find Y-12 employees setting the pace. Their excellent attitude and enthusiasm have made it possible for us to accomplish many difficult tasks, both in industry and community service."

"The membership of the Atomic Trades and Labor Council has long recognized responsibilities to the less fortunate," said C. E. Robinson, former ATLC president and spokesman for the group. "This is our way of showing that we care and want to help those in need."

According to C. R. Lively, vice president of the International Guards Union of America Local 3, "A community is only as healthy as its concerned members. We are proud to be a part of labor's fine record of public service."

Anderson County drive chairman George Warne said he was especially grateful for Y-12's achievement. "The Y-12 Plant has traditionally been a leader not only in Union Carbide's UF efforts but also in the community. A tremendous performance like this is an example to all of us, setting a high standard for other community leaders to try to match."

The hard-to-believe 'good news' crashed almost every existing record for the plant's years of United Fund giving! Every division in the plant came through with its prescribed quota . . . or goal. Labor groups, many of them increasing their giving by as much as 100 per cent, showed excellent response to the plant drive. The bricklayers, though small in number, gave more than 150 per cent of their goal, making up in heart for their size!

Continued on Page 4

Greek Circle Plans Coffee House Nov. 8

As part of the Oak Ridge Arts Festival, the Greek Circle of the Cosmopolitan Club will present a Greek Coffee House, Saturday, Nov. 8, at the Alexander Hotel.

There will be six Hellenic desserts (coffee house attendants will have a choice of four, to be served buffet style, with coffee. Admission is \$1. Music and entertainment will also be featured at the Coffee House.

SAFETY SCOREBOARD

The Y-12 Plant Has Operated 40 Days Or 1,400,000 Man-Hours (Unofficial Estimate) Through October 26 Without A Disabling Injury SAFETY AT HOME, AT WORK, AT PLAY

The Bulletin

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



NUCLEAR DIVISION

JAMES A. YOUNG Editor



American Association Industrial Editors

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Maintenance Names Warmley As Foreman



William Warmley Jr.

The Maintenance Division announces the promotion of William Warmley Jr., Building Services Department, to a foreman, effective November 1.

Warmley, a native of Mobile, Alabama, lives at 728 Clinch Street, Harriman. His wife, the former Louise Anderson also works in Y-12. They have a son Marvin R. Anderson, who works in ORGDP.

Both the Warmleys are ardent bowlers.

AEC Develops New Method In Cancer Research Method

A new method has been developed by the Atomic Energy Commission's Argonne Cancer Research Hospital at the University of Chicago to measure the iodine distribution in the thyroid gland, a necessity in diagnosing thyroid disease.

In the most common technique used today, the patient swallows an "atomic cocktail" of diluted iodine-131 which winds up in the thyroid. The new technique uses an external radiation source—americium-241—to extract iodine naturally present in the gland. The excited iodine gives off a fluorescent radiation which can be detected.

The readings from the new method are extremely accurate yet the total radiation dose to the gland is tremendously less than with the iodine-131 treatment. The technique is being clinically tested. It is also being investigated for its potential application to other organ scans.

HAPPINESS

Happiness is giving to the United Fund . . . then gaining the knowledge that your plant is the first one over its goal!

Pilot Co-Op Program Designed For Negro Students To Attend College

A pilot "co-op" program designed to encourage Negro students to pursue college studies in science and engineering has been developed by Union Carbide Corporation's Nuclear Division.

Announcing the new activity, Roger F. Hibbs, president of the Nuclear Division, said the program is specifically aimed at students who, because of financial limitations, might otherwise be unable to attend college.

The project, which will be supported by the U.S. Atomic Energy Commission, has been developed by Union Carbide in response to a need expressed at a recent workshop in Oak Ridge attended by representatives of six predominantly Negro engineering schools. The workshop was sponsored by Oak Ridge Associated Universities.

At present, approximately 25 universities have a total of more than 100 students participating in the co-op program at Nuclear Division facilities. The purpose of the co-op program is to give students the opportunity to apply theoretical course work in a working environment, and to serve as a means to help finance the students through college. While the program varies from school to school, the students usually attend classes for one quarter and then work the following quarter.

As part of the pilot program, the co-op concept—with certain innovations—has been extended to Howard University, Washington, D.C.; North Carolina A & T College, Greensboro; Prairie View A & M College, Prairie View, Texas; Southern University, Baton Rouge, Louisiana; Tennessee State University, Nashville; and Tuskegee Institute, Tuskegee, Alabama.

Under the newly-established program, the Nuclear Division will place six high school graduates recruited by each of the six institutions in summer jobs as "pre-co-op" students. Placement is contingent on their acceptance into an engineering or science co-op curriculum at the institutions.

ORGDP Ships Enriched Uranium

The Oak Ridge Gaseous Diffusion Plant shipped more than 220,000 pounds of enriched uranium during September for use in nuclear reactors in the United States and two foreign countries.

The uranium, which was enriched at a charge of more than \$7.8 million, filled orders authorized under two AEC programs—Toll Enrichment and "Lease and Sale."

Under the Toll Enrichment Program, approximately \$7.2 million worth of separative work was performed for customers in Japan and West Germany, as well as in the States of Minnesota, Nebraska and Wisconsin. Since this program was started in January, 1969, approximately \$33 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, one reactor in South Carolina received government-owned enriched uranium valued at more than \$500,000.

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

In addition, the students will have to meet normal requirements for summer employment at the Nuclear Division facilities.

Another aspect is extension of a program to include the provision of stipends to science and engineering honor students for 12 internships at Nuclear Division facilities. The internships are designed to give the outstanding students who are not in a co-op program an opportunity to work in an industrial atmosphere prior to graduation at the bachelor level.

The honor student would be given a work assignment related to his area of study, and it is assumed that he would receive college credit for successful completion of his work assignment with the Nuclear Division.

Other aspects of the program include: support for university staff visits to Oak Ridge; staff assistance from Union Carbide personnel for work on campus; and assistance by the Nuclear Division in the recruitment of students for the co-op program.

After the results of the pilot study are evaluated, it is hoped that the program may be extended to other schools and industries.

Art Sands Is October Retiree



Arthur E. Sands

Two well-known Y-12ers retire Friday, October 31, as Arthur E. Sands, Alpha Five Processing, leaves; and Vena Mae Summitt, Cafeteria, takes early retirement.

Sands, a native of Middlesex, Vermont, is a graduate of Northeastern University, Boston. He has also done graduate work at West Virginia University and the University of Tennessee.

A member of the American Chemical Society, Sands has authored many technical papers and holds several patents in his field. He formerly was with Boston Consolidated Gas Company, the Koppers Company, and the U.S. Bureau of Mines, before coming here August 4, 1953.

He and Mrs. Sands live at 103 East Magnolia Lane, Oak Ridge.

Atom Pioneers Fled From Fascist Europe

Ironically, two of the foremost pioneers of atomic energy were refugees from fascist Europe. Albert Einstein fled Nazi Germany with a price of 20,000 marks on his head. Enrico Fermi journeyed to Oslo in 1938 to receive the Nobel Prize and elected not to return to fascist Italy.

Without these two men it is doubtful that the United States would have entered the atomic age when they did. It is interesting, also, to surmise what might have happened had totalitarian regimes not been so biased.



THE DISTRESSED FAMILIES COMMITTEE, an agency of the United Fund, aids families who need immediate and temporary help. Food, clothing and many other needed items are distributed as Anderson County families face emergencies which cannot be met by other agencies.

Distressed Family Service Is Vital United Fund Agency

What would you do if your child were desperately ill and the welfare check, your only source of income, wasn't to arrive for several days? Or if fire destroyed your food, clothing and shelter?

To many families whose income is low or who depend completely on welfare or social security, these situations do constitute distress.

For them, immediate and temporary help is available in Anderson County through the Distressed Families Committee. The committee consists of Kathy Stimpson, Juanita Moser and Dennis Johnson. These people are volunteers who care enough to act immediately when a distress call comes.

Mrs. Stimpson explains, "It's sometimes hard for the person of adequate financial means to realize what can bring distress to a family of low income. Problems which face the poor are numerous. Maybe not having enough money makes them more vulnerable."

Often families whom the committee reaches are not eligible for welfare or social security. Families who move into the area are not immediately eligible for welfare. Also some families make enough to disqualify them for welfare but not enough to live and meet emergencies. The same is true for elderly people who receive social security payments of less than \$100 per month.

Many items needed by families are not available with food stamps. Mrs. Stimpson says, "It certainly is distressing when a family obtains its food with food stamps and then has it eaten by rats. But rat poison, as well as paper products and soap are not covered by food stamps."

The allotment from United Fund to the Distressed Families Committee is not a large sum of money, actually less than \$2,000 a year. The committee cannot purchase every item needed by families in need. The committee depends on many items to be contributed from church groups, clubs and interested individuals. Food, clothing and essential furniture are always gifts welcomed by the committee.

Some things which bring hardship to families are barely comprehensible to the person of mod-

erate means. Mrs. Stimpson tells of one family that had to carry all its water for two miles. And their only bucket was holey and patched with chewing gum. It is families like this whom the committee assists.

The Distressed Families Committee aids those who are in distress, those who face emergencies. They solicit your aid not only through the United Fund but also to provide needed food, clothing or shelter.

Fires Can Be Prevented!!!

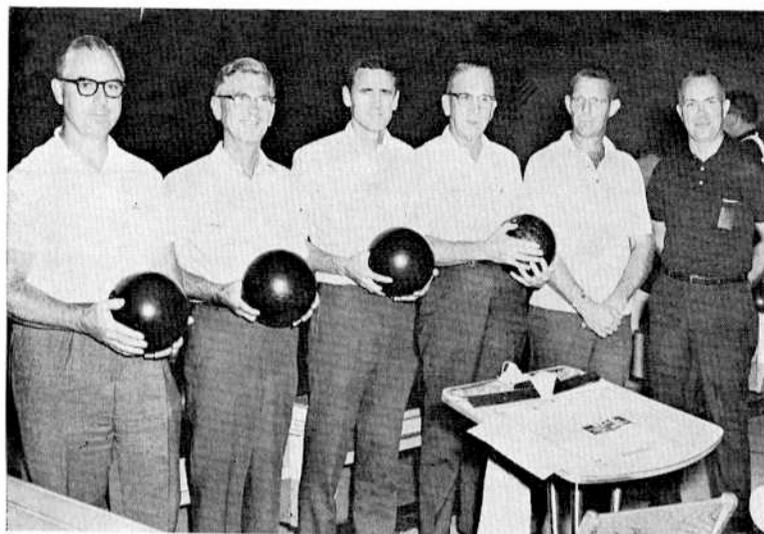
"Don't give fire a place to start!" is a piece of advice often heard but too little heeded. Results of this heedlessness are starkly outlined in the annual fire records of the United States and Canada.

In the two countries, more than 1,850 homes are destroyed or damaged by fire each day, in many instances with tragic loss of life. Fire strikes about 500 industrial and commercial places each day, and in addition to the waste of physical resources there are incalculable costs in temporary or permanent loss of jobs and frequent business failures.

We have an unfortunate habit of dismissing most fires as "accidents," as sort of visitations of bad luck which somehow are unavoidable. But how unavoidable—or predictable—is the fire started by a carelessly discarded cigarette, or over-loaded and defective electric wiring, or poorly maintained heating and cooking equipment? As shown by National Fire Protection Association studies, these and similar, uncomplicated causes are responsible for the great majority of fires.

Each of us needs to acknowledge the fact that fires are not only wasteful but avoidable, then to go on to reform the habits and remove the hazards which cause them. When each of us as an individual has done this, we will no longer risk our lives, jobs and possessions to the destructive forces of fire.

Promote neatness and you will demote accidents.



CLASSIC LEAGUE KEGLERS include some bowlers who have been around practically as long as bowling itself. In the top picture are the Has Beens . . . from left, Jack McLendon, captain; Rudy Pletz, Bobby Rutherford, Roy Roberts, Bill Mee and Sewell Brown. In the bottom picture are the Bumpers . . . Jim Halsey, Joe Pryson, Elmer Green, Ray Galford, Walt Sherrod and Avery Kendig, captain.

Markers Down Eightballs To Strengthen Position On Classic's 16-Team Race

The Markers lead the Classic bowlers by a neck, thanks to a big four point win last week over the Eightballs. The Swingsters also clipped the Cubs for the full count, and the Tigers dug into the Rippers.

Posting three were the Has Beens by the Playboys, the All Stars over the Pinbusters, and the Splinters past the Eagles.

Sharing two were the Rebels and Screwballs and Bumpers and Smelters.

Ernest Ely, Tigers, rolled a 234 scratch, 257 handicap single! Sewell Brown, Has Beens, put a 616 scratch series down . . . and George Cantrell, Swingsters, rolled a 668 handicap series. The Markers marked best in singles, 961 scratch, 1078 handicap; while the Swingsters zeroed in on

scratch series with a 2637. The Markers returned to the boards with a 2952 handicap series.

League standings follow:

Team	W	L
Markers	25½	6½
Has Beens	20	12
Rebels	19	13
Bumpers	19	13
Rippers	17½	14½
All Stars	17½	14½
Playboys	17	15
Splinters	17	15
Cubs	16	16
Eightballs	16	16
Swingsters	14½	17½
Smelters	14	18
Tigers	13	19
Pinbusters	11½	20½
Screwballs	11½	20½
Eagles	7	25

Japanese 'Bell' Next AAUW Film

'The Bell' is the next AAUW film to be shown in the current series. It will be presented Sunday, November 1, at Robertsville Junior High School Auditorium, Oak Ridge. The film was produced, directed, and written by the talented young Japanese filmmaker Yukio Aoshim, who also acts in the movie, and wrote its musical score.

This visual gag comedy, with echoes of Keaton, Lloyd, and Chaplin has music and sound effects only, as no dialogue or subtitles are needed.

Slapstick with a Japanese flavor, impeccable timing, sustained gags and quick sight jokes are fused well into a wild week-end at the beach. There are four young men a sultry girl roughhouse, all in good fun, until the discovery of a submerged bell.

Exhibited at the 1967 Cannes Film Festival, this release can be seen at 8 p.m. Sunday . . . one performance only.

FIRST SUB

The Nautilus, commissioned in 1954, was the world's first nuclear-powered sub.

New Bowling Set Hits Knox Alleys

A new bowling league (99 per cent Y-12ers, practically) hit the hardwood last Tuesday at Starlite Lanes . . . with eight big teams. The league, calling itself the Carbide Starlite League will roll Tuesdays at 8:30 p.m. at the Knox County lanes.

Blasting their way clear of opponents, the Hi Jackers took three from the Splitters and the team calling itself Woody's Woodpeckers took a forfeit win from the Dynapaths.

Taking two were the Thunder Birds over the Jaguars and the Has Beens by the Wildcats. (The league plays a three-point night, and not a four-pointer as the other Y-12 leagues play).

Walter Sherrod, Hi Jackers, poked a single of 211 through the frames and a series of 568 for scratch highs!

His team . . . the Hi Jackers . . . took top team honors . . . 916 scratch singles, 2499 scratch series. (No handicap scores were figured for the first night of bowling.)

League standings follow:

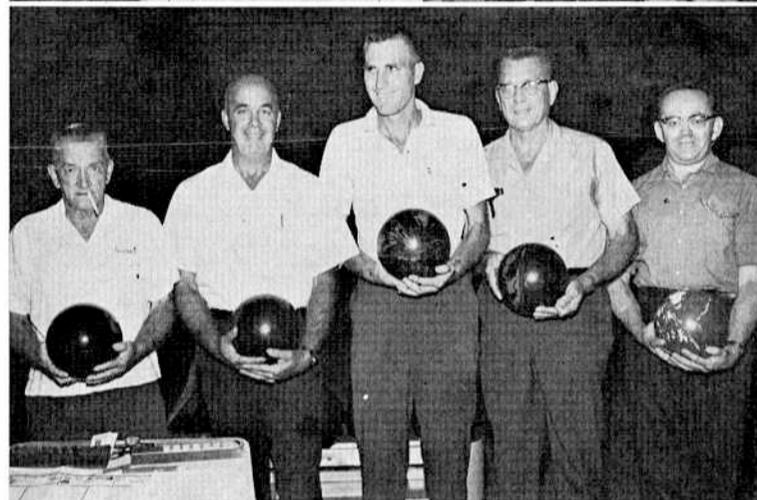
Team	W	L
H. Jackers	3	0
Woody's Woodpeckers	3	0
Thunder Birds	2	1
Has Beens	2	1
Wildcats	1	2
Jaguars	1	2
Splitters	0	3
Dynapaths	0	3

Playhouse Opens 1969-70 Season

The Oak Ridge Playhouse opens its 1969-70 season with what is perhaps the oldest and most frequently played comedy of all time, Moliere's "The Miser." Written in the 17th century for the delight of the French public, this story of the foiling of a stingy father remains fresh, relevant, and consistently amusing. Performances have been set for Friday, Saturday, November 7, 8, and 14, 15, and 21, and 22. The performances are at 8:20 p.m. at the Oak Ridge Playhouse.

In order to accommodate the larger membership this year, the Playhouse is performing on three consecutive weekends for each production. The box office has therefore changed its schedule and will be open on Wednesdays through Saturdays of performance weeks. The hours will remain 10 a.m. through 5:30 p.m. and reservations may be made by telephoning 493-1224.

In addition to "The Miser," which is a pure farce-comedy, the Playhouse will present "Long Day's Journey Into The Night," a drama; "Hobson's Choice," a comedy; "The Dybbuk," a drama; and "Don't Drink The Water," a comedy. Those who purchase season tickets will receive a 30 per cent discount over box office prices and can attend, free of charge, all Studio Theatre Productions. Memberships may be obtained from W. C. Koehler, Oak Ridge telephone 482-1318, or at the Playhouse Box Office, Jackson Square, beginning next Wednesday, November 5.



BIG C LEAGUE TEAMS FACE the firing squad . . . or the cameraman in recent action. In the top photo are the Fireballs, in the lower are the Sunflowers. The Fireballs, from left, are Jim McLean, Hubert Tripp, Captain L. R. Edwards, Carl Frazier and J. B. Fincher. The Sunflowers are E. V. Hawk, Gib Hatmaker, Captain Charles Baxter, George Tidwell and Ray Galford.

Goofers Stretch Lead In Mixed Race

The Goofers stretched their lead slightly in the Mixed Bowling circles last week with a four point win over the Twisters. Posting three were the Hits & Misses over the Spare Parts, the Roses 'N Thorns over the Rollers and the Alley Cats by the Mustangs.

C. R. Lively, Rollers, rolled a 212 scratch, 233 handicap single . . . and a 524 scratch series. Bill Patrick, Alley Cats, rolled a 665 handicap series.

The Roses 'N Thorns swept teams honors, singles of 647 scratch, 793 handicap; series of 1871, 2309.

Mildred Morris, Goofers, and Nancy Garrison, Hits & Misses, rolled games of 177 each. Nancy's 223 handicap single was high; Mildred's series of 503 scratch, 632 handicap were high.

League standings follow:

Team	W	L
Goofers	22½	9½
Hits & Misses	18	14
Roses 'N Thorns	17	15
Alley Cats	16	16
Mustangs	15½	16½
Rollers	14	18
Spare Parts	13	19
Twisters	12	20

TCWP Sets Annual Meeting October 29

The Sierra Club film "No Room for Wilderness" will be shown at the annual meeting of the Tennessee Citizens for Wilderness Planning, set tonight, Wednesday, October 29, at 7:30 in the Regional Science Experience Center, Dennison Building. The Dennison Building is on the Oak Ridge Turnpike across from the Garden Apartments. In addition, a number of reports will summarize the year's TCWP activities. These were mainly in the fields of river preservation, Smokies, natural areas legislation, trails and conservation education. Following election of next year's board of directors and other short business, refreshments will be served. All interested persons are welcome.

Rounders Tie For C Alley Top

The Rounders moved up to tie the Badgers for the fight for top place in the C Bowling League last week, as they posted a three pointer over the Instrument Engineers. The Badgers and HiLifers shared two.

Also posting three were the Parbusters over the Anodes, the Rollmasters by the Royal Flush and the Fireballs past the Sunflowers. The Go Go Gophers and Big Five shared two.

Jack Cowen, HiLifers, rolled a rollicking 242 single scratch bame, augmented to a 278 handicap single! Preston Wallace, Big Five, put a 593 scratch series, 673 handicap tally on the boards.

The Rollmasters rolled high team honors all the way . . . singles of 983 scratch, 1077 handicap . . . series of 2748 scratch, 3030 handicap.

League standings follow:

Team	W	L
Badgers	20	8
Rounders	20	8
HiLifers	18	10
Parbusters	17	11
Rollmasters	15	13
Sunflowers	14	14
Sireballs	14	14
Big Five	12	16
Anodes	11	17
Instrument Engineers	11	17
Go Go Gophers	10	18
Royal Flush	6	22

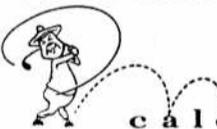
Basketball, Volleyball Players Are Alerted!

Basketball, volleyball players, take heed! The Recreation Department has issued the call. Play will start around December 1, but the month of November will be used organizing teams, adjusting schedules, etc.

Recreation needs your team name, captain, and assistant captain . . . or they will take your name to get on a team. Volleyball could start a little earlier than basketball it says in fine print.

Recreation's number is 3-7109. Life was cut short for Susie Q. Sadder; she used a chair instead of a ladder.

Recreation



calendar

Monday, November 3
BOWLING: C League, 5:45 p.m., Ark Lanes.
TABLE TENNIS: 7 p.m., Wildcat's Den.

Tuesday, November 4
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, November 5
22 CALIBRE RIFLE LEAGUE: 7 p.m., Oak Ridge Sportsmen's Association Indoor Range.
BOWLING: Mixed League, 8 p.m., Ark Lanes.

Thursday, November 6
BOWLING: Classic League, 5:45 p.m., Ark Lanes.



"Well, boss—I stacked the boxes, now where do I go?"



Wesley E. Smith



William L. Harper

Y-12 Chemists Develop Process For Making Hydrocarbon Derivatives

Two Y-12 chemists have developed new methods for making specific truxine isomers—materials which can be used to produce structural carbon—in a relatively pure form.

William L. Harper and Wesley E. Smith developed the processes in support of the Atomic Energy Commission's applied development program. The development is expected to result in greater economy and flexibility in the fabrication of specialty carbon products.

Isotruene is a crystalline material derived from the hydrocarbon idene. Hydrocarbons are compounds containing only hydrogen and carbon and do not dissolve in water. Isotruene is thermoplastic—it can be softened or melted when heat is applied but recovers its hardness upon cooling—and can be converted to carbon with a minimum loss. Its primary value lies in its ability to bind carbon and make it structurally stronger for applications such as nuclear reactor fuels.

Truxene, also derived from idene, has somewhat different properties due to a slight difference in structure and can be used in various combinations with isotruene to produce carbon with specific properties.

The AEC has applied for patent rights for the new processes in the United States and five foreign nations. The information on the development is being made publicly available as part of the federal government's "technological spinoff" program.

Details of the synthetic process are contained in a report entitled "Preparation and Characterization

of Hydrocarbon Derivatives of Idene," which soon will be available for purchase (\$3 per copy) from the Clearinghouse for Federal Scientific and Technical Information, National Bureau of Standards, U.S. Department of Commerce, Springfield, Virginia, 22151.

Kids Are Great Adult Imitators

"Please, Mother, I'd rather do it myself."

This exclamation from that boy or girl you're so accustomed to doing things for, may bring tears of joy or sadness to your eyes, depending upon your point of view. In any case, it will probably cause a lump of pride in your throat.

The magic of growing up is wonderful to behold, and it's important that as parents we take advantage of all opportunities to teach our youngsters the safe way to do-it-themselves.

While protecting small children from major dangers, we must expose them skillfully to minor ones. Their safety in the years that follow will depend upon their having learned that matches can burn, that not all liquids in bottles are good for them, that pins are sharp, etc., etc.

"At a very early age the child must be continually protected." Dick Winsor of the National Safety Council's Home Department points out. "But from approximately the age of three this protection should gradually be replaced by education."

The reason some adults constantly suffer minor or major accidents, can often be traced to their failure as children to learn safe conduct. This behavior, like any other, is largely established before the age of four. We should strive to give our children the desirable balance of curiosity and caution, impetuosity, drive and forethought, experience and the urge for new experience. From all this the child should learn to weigh causes and to estimate their probable effect.

One of the most important ways for you to educate your children is by example. Children are the great imitators. They play "mommy" and "daddy" quite accurately and are very likely to copy your safe or unsafe behavior along with the rest. It is the repetition of these play experiences that helps to form the habits that protect or expose them throughout life.

Poor housekeeping breeds accidents.



The moving finger, having writ, moves on . . . leaving October in the dust of history. Moving on are more Y-12ers, being made veterans with Union Carbide Corporation. Congratulations.

25 YEARS

Herman A. Maney, Graphite Shop, October 30.

Horace R. Floyd, Alpha Five Processing, October 30.

Ozella Ward, Production Analysis, October 30.

Albert B. Campbell, Chemical Services, October 31.

15 YEARS

John R. Hawkins Jr., Process Maintenance, October 29.

Talmadge R. Rucker, Electrical and Electronics, November 1.

Theodore D. Goodman Jr., Mechanical Inspection, November 1.

Charles J. Hickey, Physical Testing, November 1.

Roy L. Jennings, Research Services, November 1.

Richard H. Dean, Physical Testing, November 1.

Joseph W. Beever, Chemical Services, November 1.

Freddie Jeffers, Tool Engineering, November 3.

10 YEARS

Donald O. Carey, Machine Maintenance, November 2.

Lonzy Haney, Beta Two Shop, November 2.

Willie A. Wallis, Beta Two Shop, November 2.

Roscoe W. Fields, M-Wing Shop, November 2.

James W. Beeman, A-2 Shops, 9212, November 2.

Howard E. Schultz, General Machine Shop, November 2.

Data Systems Is Subject Of Talk



Robert A. Tannert

A description of Y-12's production control system was presented at a national meeting by a data processor from the plant, and will be presented at another meeting in November.

Robert A. Tannert, who heads the Data Systems Development, presented his paper, "On-Line Production Control System," at the Control Data Users Group Meeting in San Antonio, Texas, October 27-29, and will present it again at the Atomic Energy Systems Operation and Programming Meeting in Las Vegas, Nevada, November 6.

The paper describes how Y-12 accounts for every component in its production system by means of some 100 electronic data processing units, called transactors, located strategically throughout the installation. The transactors are linked to a central computer. When an employee completes his assignment on a workpiece, he

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Y-12 United Fund Campaign

Continued from Page 1

Division, by division, craft by craft, it all looked like this as of the end of last week. More cards, naturally, will show greater giving. More crafts will be over their goals in final reports, it was stated.

Division	Goal	Contribution	Per Cent Of Goal
Accounting & Budget	\$ 447.56	\$ 561.00	125.34
Assembly	1,690.00	2,010.04	118.93
Development	9,314.51	9,849.12	105.73
Engineering	10,277.17	11,064.96	107.66
Fabrication	7,483.61	8,177.23	109.26
Industrial Relations	1,504.45	1,504.00	100.02
Maintenance	6,995.68	8,200.46	117.22
Materials & Services	2,137.53	2,149.74	100.57
Metal Preparation	5,001.88	6,085.04	121.65
Production, Planning & Scheduling	2,046.62	2,134.00	104.26
Shift Superintendents	2,205.08	2,523.72	114.46
Superintendents	1,174.79	2,276.42	128.26
Technical	12,643.94	13,597.32	107.54
Crafts			
Bricklayers Local 003	33.13	50.00	150.92
Boilermakers Local 033	389.30	379.16	97.39
Carpenters Local 050	436.36	483.48	110.79
Sheetmetal Workers Local 051	125.40	127.00	101.27
Building Services Local 166	1,851.71	1,998.82	107.94
Chemical Workers Local 252	3,876.55	2,923.88	75.42
Guards Local No. 300	897.78	955.64	106.44
Ironworkers Local 384	307.59	163.16	53.04
Machinists Local 480	14,467.46	13,946.26	96.39
Teamsters Local 31	2,597.28	1,887.68	72.67
Culinary Workers Local 623	125.65	186.12	148.12
Electricians Local 760	3,966.16	3,828.64	96.53
Pipefitters Local 718	2,322.73	2,032.28	87.49
Painters Local 805	332.06	368.00	110.82
Operating Engineers Local 900	1,351.08	1,325.44	98.10
Overall Plant			
With 600 Cards			
Yet To Be Counted	101,001.26	105,442.25	104.39

Final reports will be made in next week's Bulletin, showing the best results of any overall effort in our history!



Ride wanted, or will join car pool from Rockwood to Bear Creek Portal, straight day. Van Vail Jr., plant phone 3-7854, home phone Rockwood 354-2640.

Ride wanted or will join car pool from 4309 Lamour Drive, West Knoxville, to East Portal, straight day. Lloyd Krohn, plant phone 3-5226, home phone Knoxville 584-7652.

Will join car pool from 242 North Purdue Avenue, Oak Ridge, to East Portal, straight day. Mohamed R. Ali, plant phone 3-7855, home phone Oak Ridge 483-8989.

Optimists Honor Y-12's Jim Disney For Work

James Disney, Radiation Safety, has become the first Distinguished Lieutenant Governor from Zone 9 in the Tennessee District of Optimists International. A member and a past president of the Clinton Optimist Club, Jim has been an outstanding leader in his zone during the 1968-69 year.

Zone 9 is comprised of clubs from Claxton, Clinton, Norris, Tazewell, Jellico, Rutledge, Harrogate, Oak Ridge, Lake City, and Clear Port.

Disney's leadership at Clinton pulled his zone from the bottom of the achievement of awards and standings in the Tennessee district to number three.

Changing Lanes Should Bring Turn Signal, Too

Motorists usually signal their intention to turn. But many forget they should also signal their intentions to change lanes. Every turn should be advertised in advance, says the National Safety Council. And when changing lanes, first make sure no car is cruising along in your blind spot.



MR. AND MRS. C. W. Kidd are the proud grandparents of David Wade Buchanan, born September 24 to Mr. and Mrs. Bill Buchanan, Knoxville. The proud grandfather is in Y-12's Material Transfer and Packing.