

FRANK FUIS JR., TOOL ENGINEERING, was recently graduated from the Famous Artists Schools of Westport, Connecticut. Fuis specialized in commercial art and illustration during his three-year course with his home study school. Directing the art courses is a faculty of distinguished artists among whom are Norman Rockwell, Austin Briggs and George Giusti. Congratulations, Frank!

Instrument Business New In Union Carbide

New Department Put In Electronics Division

Union Carbide Corporation is entering the instrument business with a product line of environmental pollution monitoring instruments and special industrial analyzers, according to a recent statement by Birny Mason Jr., chairman of the board. The newly created instrument department will operate as part of the corporation's Electronics Division and will be located at White Plains, New York.

"Union Carbide is in an ideal position to make significant contributions to this rapidly growing field by applying the latest instrument and electronic techniques to the problems of water and air pollution control," Mason pointed out. "We have a long history of development of instruments to monitor and control pollution from our own complex of chemical facilities, and estimate that by 1970, Union Carbide's minimum capital investment in pollution control equipment will total \$90 million."

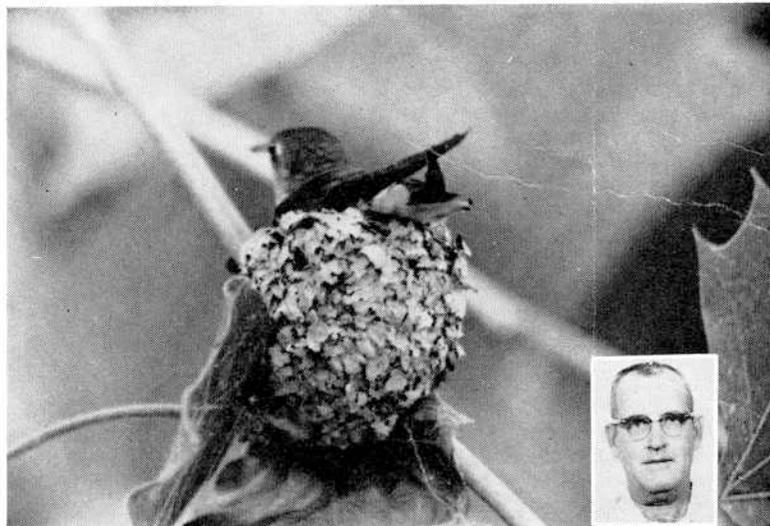
Dr. Robert A. Charpie, president of the Electronics Division, announced that the instrument department will be headed by Frederick E. Booth Jr., as general manager. Examples of the pollution monitoring instruments being offered initially by the instrument department, according to Booth, are a dissolved oxygen analyzer used to measure the amount of gaseous oxygen in sewage or river water; a total carbon analyzer used to measure the carbon content of the chemical contaminants in waste water; a multi-parameter water monitor that measures and records simultaneously five different water quality variables; and an engine exhaust analyzer that measures the amount of carbon monoxide and total hydrocarbons emitted from automotive engines. The engine exhaust analyzer meets all

Continued on Page 4

Union Carbide Is In Jewel Business

Union Carbide Corporation is set to market the first full line of fine jewelry. The nation's first full line of nationally branded fine jewelry has been announced by Carbide in a major expansion of the jewelry operations. J. F. Warnell, president of the Consumer Products Division, said the high fashion line, will be known as "The Quintessa Collection" and will be marketed this fall through selected fine jewelers. The collection initially will include more than 200 pieces — rings, pins, pendants, earrings and bracelets — featuring "Linde Created Emeralds," with the highest quality diamonds, rubies, and sapphires in settings of palladium and 18-carat gold. Designs were selected from more than 20,000 full color renderings submitted by outstanding French and Italian jewelry designers. Styles range from classic to modern to avant-

Continued on Page 4



EVER SEE A HUMMINGBIRD'S NEST? Well, neither did we . . . but O. C. Beatty, Guard Department, is acting as guardian over this little mama and her soon-to-be hatched brood. She built a nest near the Building 9213 Guard Post, and Beatty has cautioned all comers not to disturb her. Since the incubation period for hummingbird eggs is unknown, they're probably babies by now.

New Electronics Course Is Set To Open Soon

A new night extension course in Industrial Electronic Technology is now being organized at Central High School, Wartburg. This class will meet from 6 until 10:30 p.m. two nights a week, and is set to open Monday, August 7.

The course is divided into six six-month semesters. Cost per semester is \$20 tuition, \$6 for four textbooks and \$2.50 for laboratory manuals. The course is approved for a sharing of the cost under the Union Carbide Education Assistance Program.

Instructors include Bernard Dyer, coordinator; Lonnie Brown, University of Tennessee; T. A. Hickman, N. E. Morgan, L. Patterson, Y-12 Research Services Department; and M. W. McGuffin, Oak Ridge National Laboratory Thermonuclear Division.

Anyone interested in signing up for the courses, in need of more information, should contact T. A. Hickman, Building 9201-2, telephone extension 3-5059.

No Bulletin Planned Next Wednesday, Aug. 9

There will be no Y-12 Bulletin next week, August 9.

Meanwhile, the office of the Bulletin has moved. Now housed in C-9 . . . an office in the connecting corridor of Building 9704-2, the office is next to the fire wall beyond the conference room.

Come to see us in our new home!

Local Post Office Adds Zip To Phone!

The local post office in Oak Ridge has an easy number to remember now . . . its own Zip Code number . . . or 483-7830. (37830 is the Zip number for Oak Ridge . . . just add the normal 48 and you have it made.)

The joint announcement came recently from Oak Ridge Postmaster Van Hicks and the Southern Bell Telephone Company.

Union Carbide Sales And Earnings Down From Same Period In 1966

1967's First Half Levels Are Affected By Sharp Decline In Several Industries

Union Carbide Corporation's sales and earnings for the second quarter of 1967 declined from the all-time record levels of 1966, Birny Mason Jr., chairman of the board, stated last week. Second-quarter sales were \$535,426,000, compared with sales of \$566,710,000 for the corresponding period in 1966. Earnings during the second quarter were \$41,660,000, or 69 cents a share. This compares with \$63,746,000, or \$1.06 a share, earned in the same period last year.

Sales for the first six months of 1967 totaled \$1,056,799,000, compared with 1966 first-half sales of \$1,097,231,000. Earnings were \$86,749,000, or \$1.44 a share. In the corresponding period last year, the corporation earned \$125,458,000, or \$2.08 a share.

SALES BY PRODUCT GROUPS (Millions Of Dollars)

	1966				Year	1967	
	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.		1st Qtr.	2nd Qtr.
Chemicals	\$176	\$191	\$215	\$199	\$ 781	\$174	\$183
Plastics	97	101	95	95	388	93	96
Industrial Gases	103	109	105	107	424	102	102
Metals	80	88	78	62	308	71	71
Carbons	75	78	81	89	323	81	84
Total	\$531	\$567	\$574	\$552	\$2,224	\$521	\$536

Mason stated that the corporation's first-half results were severely affected by the sharp decline in the level of activity in several major industries. He pointed out that Union Carbide has had under way a very substantial capital investment program and other programs oriented to long-term growth, and these have tended to emphasize somewhat the adverse short-term effect on earnings of the current economic slowdown. These longer-term programs are being continued, however, in order to enable the corporation to supply future customer needs more effectively.

"The outlook for the corporation's sales and earnings for the remainder of 1967," Mason continued, "is dependent in large measure on the level of the economy. Thus far we have not seen positive evidence of a prospective upturn in industrial activity, but on the other hand we do not see signs of further deterioration. We are hopeful that there will be improvement in general business conditions during the latter half of the year, and if there is we should see some improvement in the trend of our earnings performance."

Wells' Family Wishes To Remember Kindesses

The family of Mrs. Dorothy Wells wishes to express their deep gratitude for the many acts of kindness. Mrs. Wells died July 11.

There are two sons in Y-12 . . . James R. and Jerry R. Wells; a daughter Mrs. Dorothy Beeler; three sons-in-law William D. Beeler, Harold R. Bailey and Cecil W. Smith. A surviving brother-in-law also works in Y-12, O. C. Hartman.

Cabibbo Theory Subject At Physics Seminar

R. A. Carhart, University of Illinois at Chicago Circle, will lead this week's Physics Division seminar. His subject will be "Cabibbo Theory of Weak Interactions."

The seminar is set for Friday, August 4, at 3:15 p.m. in the East Auditorium of ORNL's 4500 building.

HERE BOWSER

A new dog food on the market carries the advertisement: "Tastes just like the mailman's ankle."

Daylight Saving Time Created As A Joke!

Daylight Saving Time was a humorous idea initiated by Benjamin Franklin in 1784. The idea seemed a little ridiculous then, when the horse and carriage served all purposes of travel and communication.

The idea was first used in Great Britain in 1907. It came to this country during World War I and World War II to conserve fuel for industrial uses. Its popularity has spread since the end of World War II throughout the nation.

SAFETY SCOREBOARD

**The Y-12 Plant Has
Operated
107 Days Or
3,075,000 Man-Hours
(Unofficial Estimate)
Through July 30
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*

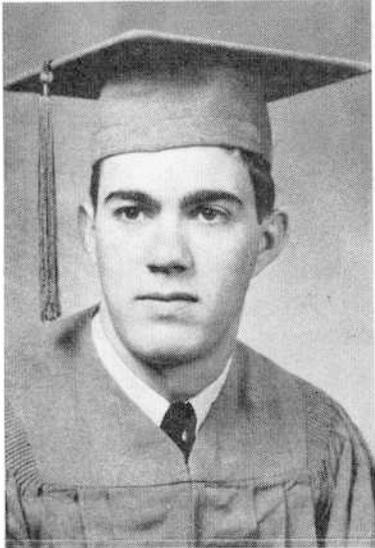


American Association Industrial Editors

OFFICE

Post Office Box Y
Oak Ridge, Tenn. 37830
Bldg. 9704-2 Room 137
Telephone 3-7100

Byrum Son Takes Auto-Diesel Study



John C. Byrum

John C. Byrum, son of J. T. Byrum, of Y-12's Guard Department, is a recent graduate of Oak Ridge High School. John is attending Nashville Auto-Diesel College, Nashville, Tennessee.

The Byrum home is at 112 Anna Road, Oak Ridge.



Ride wanted from Norwood Section, Knoxville, to East Portal, straight day. Buddy Miles, plant phone 3-5059, home phone Knoxville 689-4746.

Two carpool members wanted from East Village area, Oak Ridge, to Biology, or North Portal, straight day. Kenneth Cole, plant phone 3-7556, home phone Oak Ridge 482-3318.

Half Of Glaucoma Victims Don't Know It

More than 1,392,000 Americans over the age of 40 have glaucoma and half of them do not know it, warns the National Society for the Prevention of Blindness, Inc.

Some of the danger signals are: loss of side vision; blurred or foggy vision; frequent change of glasses none of which are satisfactory; inability to adjust the vision to darkened rooms.

People over 35 years of age should see an ophthalmologist every two years for a thorough eye examination, says the NSPB. Once detected, glaucoma can be controlled and further loss of vision prevented through medication or surgery.

'King and I' Tryouts Set

The Oak Ridge Playhouse announces try-outs for its big opening musical, "The King and I," are set for Monday, August 7, and Saturday, August 12, at the Playhouse in Jackson Square. Readings will begin at 7:30 p.m. Monday and at 10 a.m. Saturday. Try-outs are open to the public and everyone, regardless of previous experience in the theatre, or lack of it, is cordially invited to attend.

"The King and I" is one of the world's most popular musicals. Based on the story of Anna and the King of Siam, it is a charming story of Anna's English personality pitted against the powerful and frequently primitive character of the King, whose children Anna has been hired to teach. There are many characters in the play, including Anna's son, Louis, who is about 12 years old; the King's favorite wife, Lady Thaing; his newest wife, Tuptim, who is a lovely but frightened girl who loves someone else; 10 royal wives; 10 priests of Siam; several dancers; and the King's children, nine boys and eight girls between 6 and 16.

Opening date of "The King and I" is Friday, November 10. Rehearsals will begin in early September. For information concerning the tryouts, Playhouse membership, or any of its activities, call Oak Ridge 483-1224, or 483-6193.

Don't 'Over-Drive' Your Headlights At Night

Don't over-drive your headlights, warns the National Safety Council. If you are driving 60 m.p.h., it will take you, under average conditions (dry road, etc.) about 366 feet to stop. If you can see only 200 feet ahead (the normal viewing at night), you will be in serious trouble if a stopped vehicle or other obstruction requires you to stop at that speed.

Parking lights are also for parking, says the NSC. Never use parking lights when in motion.

ELECTRIC POWER

The United States has nearly as much electric power generating capacity as the next five countries combined — the Soviet Union, the United Kingdom, Japan, West Germany and Canada.



ROBERT SCOTT SWISHER, a fine boy indeed, is the grandson of Mr. and Mrs. E. C. Gross. Gross is in the Electrical Department, and Mrs. Gross is also a former Y-12er. Happy lad, isn't he?



"LILIES OF THE FIELD" are much in evidence at the home of E. R. Daugherty, Chemical Services. The Y-12er boasts more than 150 varieties of the hearty, blooming day lily.

'Not Arrayed Like One Of These . . .'

"Consider the lilies of the field, how they grow; they toil not, neither do they spin. Even Solomon in all his glory was not arrayed like one of these."

Or, consider the day lily itself. E. R. Daugherty, Chemical Services, can fill you in on the intricacies of the hemerocallis . . . or what is commonly called the "day lily."

Currently the proud producer of about 150 varieties of the hearty plant, Daugherty cultivates the lilies on about an acre of land near his 6434 Oak Ridge Highway home.

"The tiger lily . . . or that healthy orange lily we find around old homesites is actually an ancestor of the day lily," he explains. "Lilies are easy to grow, and a healthy plant should produce about 300 flowers per year." (The bloom only lasts one day . . . hence the name 'day lily,' but there's always more to bloom the next day.)

The past eight years have seen Daugherty experimenting with cross-breeding for size, color, vigor, shape and heartiness. "The lily isn't bothered by disease, insects, doesn't require sprays and will grow in almost any type of soil," Daugherty vows.

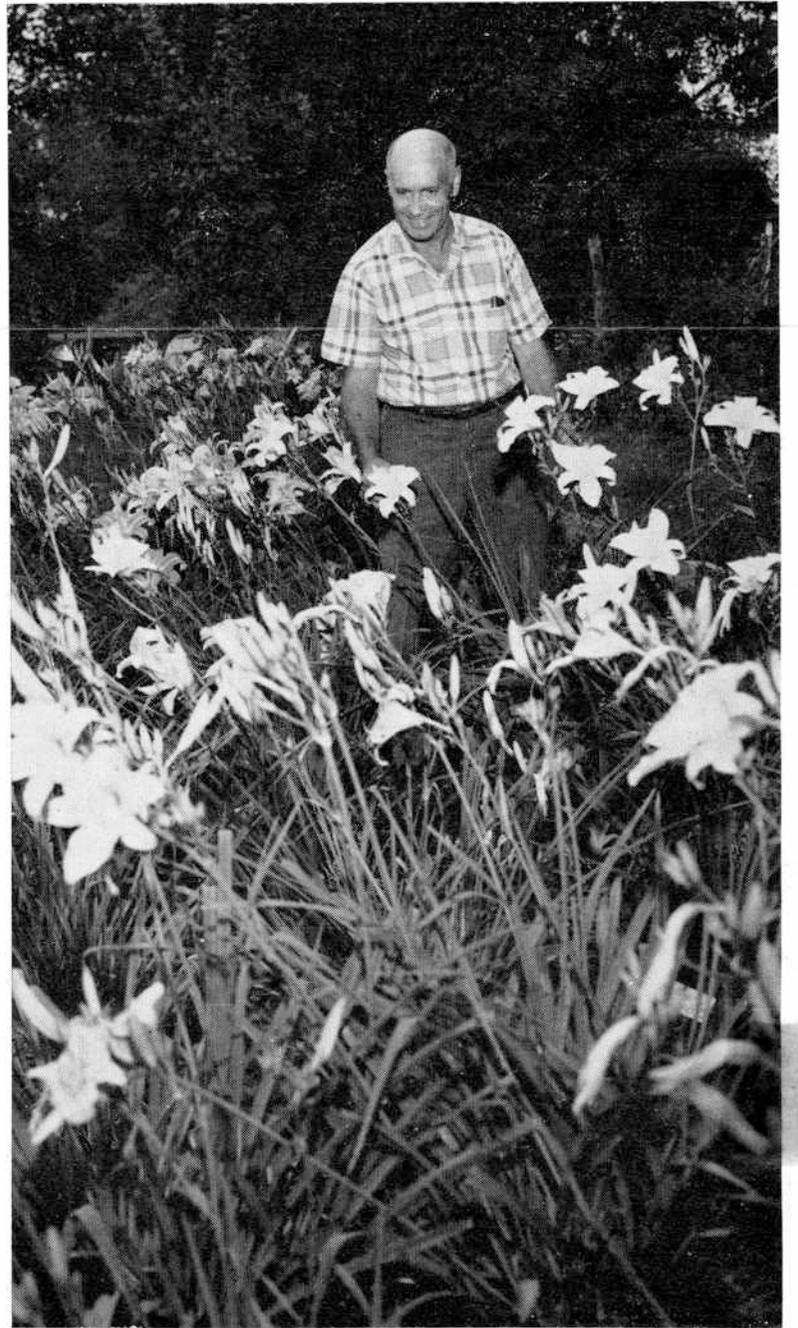
Plant day lilies anytime in the early Spring, Daugherty advises. He personally selects his seedlings, inspecting the blooms before purchasing. Many of his plants came from Hardy's in Alabama.

Once a line is started, keep cross-breeding for the type flower you wish. (The perfect 'white' day lily has not been produced yet. But lily-growers are still trying to pollinate to a large perfect white day lily.)

Some of Daugherty's day lilies are pinks . . . he specializes in pastel pinks, some of which are 10 inches across the bloom.

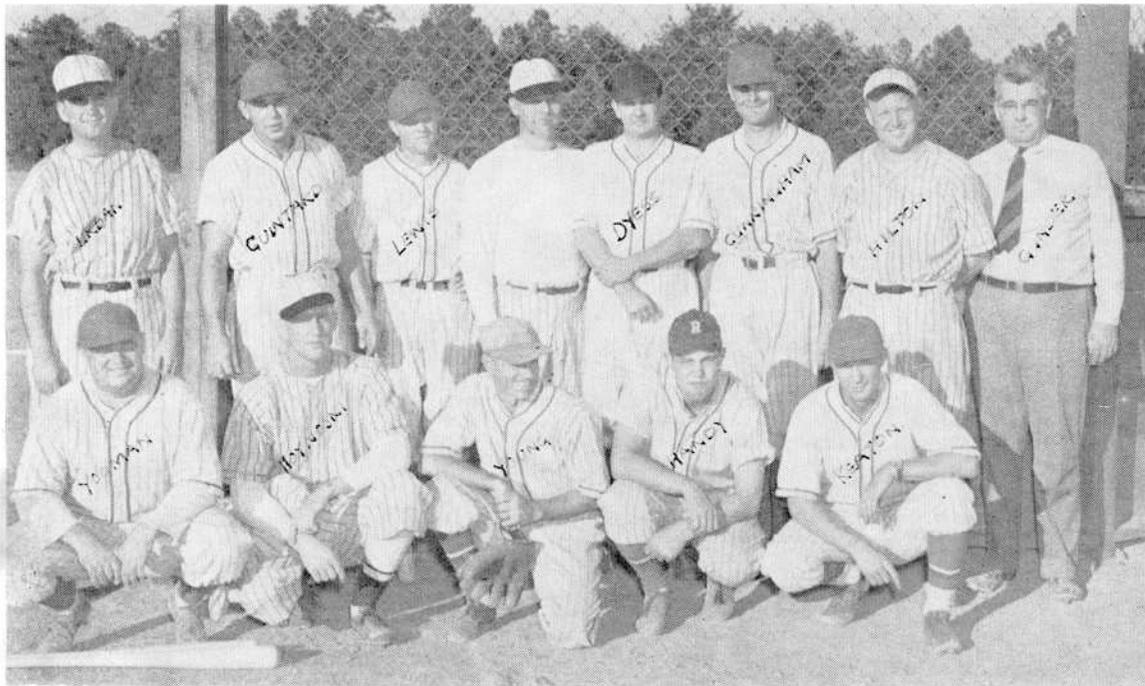
Each plant will have three bloom scopes (or stalks).

And there's an organization for day lily specialists . . . the American Hemerocallis Society. (Hemerocallis is literally translated



DAUGHERTY IS SEEKING, along with other day lily fanciers, the perfect white day lily which has not yet been developed. He has a pale pink, however, in the foreground, that is close to white. Some of the blooms will measure 10 inches across!

from the Greek . . . as Day Lily.) Flower-enthusiast Daugherty would like to see a local organization of the AHS . . . so information could be exchanged and seedlings swapped. Daugherty now has second generations of seedlings now in bloom. So he invites fellow Y-12ers to stop by on their way to Knoxville. He'll be glad to help you get started in the day lily business. And he heartily agrees with the scriptures . . . "Even Solomon in all his glory was not arrayed like one of these."



A BASEBALL TEAM FROM THE ANCIENT DAYS . . . shows a 1944 line-up of stalwart players. Kneeling are, from left, Youman, Hoyndom, Young, Handy, and Keaton. In the back row are Urban, Guntard, Lewis, an unidentified player, Dyess, Cunningham, M. B. Hilton, and Manager Gunter. "Wimpy" Hilton is the only player, as far as it's known, that is still in Y-12.

Braves Gain Leg In Wet Softball

The Y-12 Braves, comfortable again in the lead in the Softball League, downed the Eagles last week 8 to 3 . . . besting them in the first inning, then keeping the lead all the way.

Trig Myhre poled the only homer of the game, for the losing team.

Other action Thursday saw the Y-12 Pirates pole the K-25 Slugs right off the diamond 18 to 3. Bobbie Rutherford, Bill Boucher and Baldy Clayton (back on the grounds again) homered to help the Pirates across.

The other game action of the week pitted two K-25 teams as the Sports squeezed by the Mets 13 to 11. Bob Seyfried and Ralph Clough four-bagged it for the winners, Wayne Neff for the losing Mets.

Forfeit wins also went to the Pirates over the Falcons, the Braves over the Big Shops, and the K-25 Sports over the Falcons, as the monsoon season continued its untimely season in the hills of Tennessee. More action this week, diamond-men hope!

League standings follow:

Team	W	L
Braves, Y-12	7	1
Eagles, Y-12	5	2
K-25 Mets	5	2
Bat Boys, Y-12	4	2
K-25 Sports	4	2
Pirates, Y-12	4	2
Flyers, Y-12	2	2
K-25 Slugs	2	5
Big Shops	0	6
Falcons	0	8

Horseshoe Lead Still Coley-Raper's

Hoss shoe men hit the pits again last week as the Gray-Leonard team swamped Kendig-Zupan for the full count (actually a forfeit win) . . . Luckett-Barger trimmed Helms-Lucke for eight, as did Rein-Case past Hutto-Tillery.

League standings follow:

Team	W	L
Coley-Raper, Y-12	47	7
Durham-Harness, ORNL	42	12
Gray-Leonard, ORNL	39	24
Luckett-Barger, ORNL	38	16
Rein-Case, ORNL	33	21
Matheny-Miller, ORNL	21	33
Hutto-Tillery, ORNL	17	37
Helms-Lucke, Y-12	15	39
Kendig, Y-12-Zupan, ORNL	0	63

PATENT PENDING

If somebody's looking for something to invent . . . or a better mousetrap to build, they might try to devise some better way of starting the day than getting out of bed.

August Golf Is Set At Kingston

Y-12 golfers will return to Southwest Point, Kingston, course for their August tournament. A near-record 172 duffers appeared for the July contest. So, the scene has been changed.

Lambert Acres, due to unforeseen events, will be unable to take August's crowd from Y-12 . . . so it's back to the lake.

(Since there is no Bulletin next week the golf coupon below is appearing early. It will be run again Wednesday, August 16.)

The Southwest Point Tournament will be the final all-Y-12 golfing competition of the season, as duffers will pack their irons and await another Spring.

DelGrande, West In Tennis Lead

Only two tennis matches are reported in the Tennis League as the courts take on the look of Olympic swimming pools these days.

Martin West defeated Charlie Jones 6-1, 10-8 in a cliff-hanger . . . and Campbell King downed Don Legacy 6-4, 7-5 after losing the first match 6-4.

League standings follow:

Player	W	L
Ed Del Grande	1	0
Martin West	1	0
Don Legacy	1	0
Campbell King	1	1
D. H. Gray	0	1
Charlie Jones	0	1

Scales Are Tipping Against Heavyweights!

The scales are tipping more and more against the heavyweights. Excess weight can be expensive as the bearer will pay more for his clothes, certainly more for his food, and more for life and health insurance.

Now the Health Insurance Institute reports that substantial overweight can also result in more illness than normal. Also there is evidence that overweight may even prevent students from getting into the college of their choice.

More important, also, overweight people in general have shorter lives than normal or underweight people.

An open mouth and a wagging tongue are the biggest gap in security.

Recreation



Sunday, August 6

SKEET TOURNAMENT: 1 p.m., Oak Ridge Sportsmen's Association.

Monday, August 7

SOFTBALL: 6:15, 7:30, 8:45 p.m., Pinewood Park. K-25 Slugs vs. Big Shops; Eagles vs. Falcons; Flyers vs. K-25 Sports.

TENNIS: League plays as per schedule to be arranged by combatants.

GOLF LEAGUE: Melton Hill Course, immediately after work.

Tuesday, August 8

SOFTBALL: 6:15, 7:30, 8:45 p.m., Pinewood Park. Braves vs. K-25 Mets; Pirates vs. Big Shops; Bat Boys vs. Falcons.

CARBIDE CAMERA CLUB: 8 p.m. First United Presbyterian Church.

Wednesday, August 9

CARBIDE RIFLE LEAGUE: 7 p.m., Clinton Rifle Range.

Thursday, August 10

SOFTBALL: 6:15, 7:30, 8:45 p.m., Pinewood Park. K-25 Slugs vs. Eagles; Flyers vs. K-25 Mets; K-25 Sports vs. Big Shops.

ARCHERY LEAGUE: 5:15 p.m., Oak Ridge Sportsmen's Association.

HORSESHOE LEAGUE: 7 p.m., City Courts, Jackson Square.

Monday, August 14

SAME AS ABOVE EXCEPT SOFTBALL.

SCHEDULE: Braves vs. Falcons; Pirates vs. Eagles; Bat Boys vs. K-25 Slugs.

Tuesday, August 15

SOFTBALL: Flyers vs. Big Shops; K-25 Mets vs. Falcons; K-25 Sports vs. Eagles.

Thursday, August 17

SOFTBALL: Braves vs. K-25 Slugs; Pirates vs. Bat Boys.

New Waterproof Lamp Has Many Varied Uses

The Consumer Products Division of Union Carbide Corporation has introduced a waterproof lantern. The new light, called the Eveready All American lantern, will float on the surface of water if dropped overboard. It can also be used for underwater diving. The case is made of polyethylene, which resists oils, greases, and most chemicals. It is lightweight, with a powerful searchlight beam and unbreakable lens.

Shooting Is Safe Sport If Precautions Are Used!

"Youth Shot While Loading Gun," "Hunter Trips Crossing Fence," "Child Victim of Shooting." These headlines are needless, says the National Safety Council. The result from carelessness or lack of knowledge on the part of gun handlers. To encourage safe use of firearms, whether in a hunting area or at home, the Council offers the following safety suggestions:

- Before going hunting, get proper instruction on the safe use of firearms on a well protected range from a competent instructor.

- Before using any small arms, be sure you know the size and type of ammunition that may be safely used. Be sure that all parts of the gun are in good working order, and know where the safety device for locking the firing mechanism is located and how it works.

- Never attempt backyard target shooting, because a stray bullet could cause injury. Basement or other in-the-house shooting should be practiced only if a satisfactory backstop has been constructed. Don't shoot at hard, horizontal surfaces because of the danger of a ricochet.

- When loading your gun, point the muzzle in a safe direction. Examine the gun bore through the breech to see that it is open, since an obstruction, such as snow, mud or dirt, might cause the gun to blow up when it is fired or might cause a backflash through the breech.

- A gun should be pointed only at the object that is to be hit, whether game or a target. Horseplay should never be permitted.

- Hunters should wear clothing that is easily visible, preferably red or orange.

- Loaded guns should not be carried in automobiles, boats, or other moving vehicles, because a sudden jolt or bump might discharge them. Make it a habit to break your weapon before taking it into a car whether going to or coming from a hunting trip, and make sure it contains no ammunition. Always break the gun before climbing a fence, entering or leaving a boat or while resting.

- Care for your gun as you would any other fine piece of machinery. Remove all corrosive chemicals from the bore or rifling, all dirt and dust from the outside.

- Never leave a loaded gun in reach of irresponsible persons or children. Clean the gun only when you are alone and after you have taken every precaution to see that all cartridges have been removed.

Enjoy the fine art of shooting, the Council adds, but give the gun the respect it demands. It is a lethal weapon, and must be treated with the utmost caution.

Huffman-Hogg Top Melton Hill Greens

Don Huffman and Bruce Hogg edged out a one-point victory as the Melton Hill Golf tournament last week wrapped up its first half. Huffman and Hogg slipped by Thompson-Rogers by the thinnest of margins, and only two ahead of Garber-Huddleston and H. Butler-Pryson, by defeating Perry-T. Butler for the full six-point count. Thompson-Rogers also cleaned Henderson-Bryant for the big finish. Taking six also were H. Butler-Pryson against Boyd (firing alone for the E. Sise-Boyd team), and the E. Smith-Goodwin pair over the Gresham-Brown duo by forfeit. Seizing four in the waning days were Hamby-Booher over Morehead-Poly, Roberts - Johnson over Thompson-Briscoe, and Nelson-Tiller over Jim Batch (alone for the Winstead-Ferguson team).

The Alvey-Gamble team split three with (Grubbs Team) Cofer shooting.

Low scratch firings for the final round were taken by Hamby, 38; Booher, Cofer and Pryson, all with 39, and Johnson with 41. Low handicap scores were carded by Hamby, 34; Pryson, Cofer, Morehead and Alvey, each with 35.

Booher had the best first-half average with 39, followed by Hamby, Braden, Brown, Pryson and Bill Grubb, all with 41.

1st half standings:

Team	W	L
Huffman-Hogg	38	16
Thompson-Rogers	37	17
Garber-Huddleston	36	18
H. Butler-Pryson	36	18
Hamby-Booher	34	20
Roberts-Johnson	34	20
Winstead-Ferguson	33	21
Morehead-Poly	32	22
Alvey-Gamble	32	22
Nelson-Tiller	29	25
B. Grubb-J. Grubb	27	27
Boyd-Sise	26	28
Clabough-Nobles	26	28
E. Smith-Goodwin	22	32
Perry-T. Butler	17	37
Gresham-Brown	15	39
Thomason-Briscoe	10	44
Henderson-Bryant	2	52

Tee-Off Time Application For Southwest Point (Kingston) Tourney

Saturday, August 26

Foursome

_____, Leader

Leader's office phone _____

Home phone _____

Tee-off Time Preferred _____

Fill out completely and return to the Recreation Office, Building 9704-2. Deadline for entering is 4:30 p.m. Wednesday, August 23. Tee-off times will be drawn the next day, Thursday, August 24, at 8:30 a.m.



UNION CARBIDE CORPORATION
NUCLEAR DIVISION
 P. O. BOX Y, OAK RIDGE, TENNESSEE 37830

(RETURN REQUESTED)

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



The halcyon days of Summer move into two weeks of August. Moving into veteran status are several Y-12ers, marking important dates with Union Carbide Corporation. Congratulations.

20 YEARS

Wallace Humphrey, Area Five Maintenance, August 5.
Bruce B. Coulter, Research Services, August 9.
Arthur B. Seabolt, ORNL Chemical Services, August 11.

15 YEARS

William J. Hatcher, Material Specimen Shop, August 9.
William T. Mee, Radiation Safety, August 11.
John M. Mills Jr., Specifications and Systems, August 11.
Alvin C. Smith, Physical Testing, August 11.

Lonnie Wright, Process Maintenance, August 11.
George W. Bass, Stores Department, August 12.
Georgia A. Gregory, Janitors Department, August 12.
Thomas H. Ebert, Arc Melting, August 13.

Giles C. Gregory, Guard Department, August 13.
William R. Jones, Research Services, August 13.
D. C. Morrison, Material Procurement, August 13.

William E. Weaver, Dispatching Department, August 15.

10 YEARS

Robert M. Addington, Production Analysis, August 5.
Paul W. Pless Jr., Quality Assurance, August 5.
James L. Disney, Radiation Safety, August 12.

Y-12 Son Cited For Risking Life To Pull Pilot From Burning Plane

Extreme pride graces the John S. Hembree home these days.

The youngest of the Hembree sons, Airman First Class Lonnie D. Hembree has just received the highest U. S. Air Force non-combatant award for heroism, the Airman's Medal.

Exploding munitions and a burning aircraft did not deter the 20-year-old airman from Harriman, from rescuing a combat pilot in Vietnam.

Young Hembree voluntarily risked his life to evacuate an O-1 Bird Dog pilot from his flaming aircraft after it crashed into an ammunition storage area at Song Be Airfield, South Vietnam.

He unhesitatingly entered the disaster area and courageously freed the flier from the burning wreckage. Then, the airman cautiously guided the pilot through the spreading fire and exploding munitions to safety.

Hembree is assigned to the 19th Tactical Air Support Squadron and serves at Song Be with a USAF advisory team which supports ground operations. As part of his job, he works in forward air control operations headed by the pilots who fly the small O-1 observation plane to spot the enemy and mark targets for strike aircraft.

Airman Hembree has been in service for two years, entering soon after graduating from Harriman High School. He has been in Vietnam since last August.

The Y-12 father, (he's in Buildings, Grounds and Maintenance Shops) expressed great pride in his son's achievements. "But then, I'm proud of all three of my sons. The two older boys also served honorably in the armed forces. Sayer was in the Air Force, stationed in Lybia, and James was a paratrooper at Fort Campbell, Kentucky."

The Hembree home is at Route 4, Harriman.



A/IC Lonnie D. Hembree

Jewel Business

Continued from Page 1
 garde. Prices of the exclusive designs will range from \$75 to \$1,000, with a limited number priced to \$12,000.

"We believe there is an untapped market for a high fashion, branded line of fine jewelry which has never before been offered to the consumer," Lloyd E. Rautiola, general manager of the Jewelry Products Department, stated, "Extensive study of leading retail jewelers and consumers indicates significant demand for a nationally advertised line. Fulfillment of this demand requires the image of quality and reliability offered by an organization like Union Carbide."

Instrument Business

Continued from Page 1
 the requirements of use in those states whose annual inspection of vehicles will ultimately include a check of engine exhaust composition.

"In addition to marketing environmental pollution monitoring devices, the instrument department also intends to offer a variety of special industrial analyzers that have been developed through the diverse research and production operations of Union Carbide," Booth added.

New West Coast Plant Opens Near Los Angeles

The opening of a new plant facility in Santa Fe Springs, near Los Angeles, California, has been announced by Elio E. Tarika, president of Union Carbide's Food Products Division. The Santa Fe Springs plant will warehouse casing, provide full finishing operations, and will give faster and more efficient service to customers in the Western States.

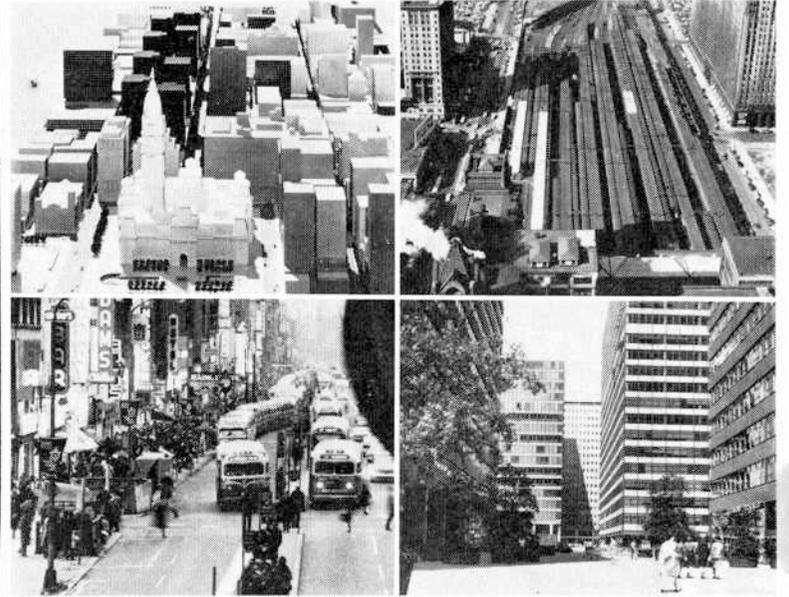
In addition to warehousing Precision Nojax casing, the plant will have complete printing and finishing facilities for Precision cellulose and fibrous casings.

The Food Products Division has additional operations in Chicago; Loudon, Tennessee; and Center-ville, Iowa.

Loose talk is poison.



REVERSE ENGLISH on the old pioneer trek west was made recently when a caravan went east in covered wagons and on horseback. The group of 80 covered wagons, and from 500 to 600 on horseback, left Sunday, July 2 from Tellico and rode 'cross the mountain to Murphy, North Carolina. B. F. Robinette, Guard Department, left, is seen above ready to embark with his neighbor Avery McMahan. They made camp twice on the 50 mile journey, at Spivey Cove and Hanging Dog, North Carolina.



PLANS FOR THE FUTURE . . . Urban renewal plan for Philadelphia, Pennsylvania, top left, contrasts modern buildings with the Victorian City Hall. New skyscrapers have been built over railroad tracks, to right, eliminating congested streets, bottom left, to make room for Penn Center's spacious plazas, bottom right. The urban renewal is featured on "Cities of the Future" Sunday, August 6, at 6 p.m. on the 21st Century, over WBIR-TV, Channel 10.

21st Century Takes Peek At Tomorrow

Manhattan Island covered with a geodesic dome two miles in diameter, and a floating city of man-made islands are among the plans for urban living in the "21st Century." The report will be made on Cities of the Future, Sunday, August 6, from 6 until 6:30 p.m., EDT, in color on the CBS Television Network. (The program is aired locally by WBIR-TV, Channel 10.) CBS News Correspondent Walter Cronkite is principal reporter for the series which is sponsored in the public interest by Union Carbide Corporation.

The world wide report explores new cities, and the restoration of old ones, from Brazil's six-year-old capital of Brasilia to Sweden's 300-year-old capital of Stockholm. New concepts in urban planning from Reston, Virginia . . . to Chandigarh, India. Urban renewal projects in Philadelphia, Pennsylvania; Miami, Florida; and Montreal, Canada, are also shown.

Plans for cities of the twenty-first century are discussed by leading architects and city planners. Of primary concern to these futurists is the threat that, unless careful plans are made now, the cities of the future will be iminent megalopoli sprawling aimlessly across the land.

Sunday, August 13's '21st Century' will center around the college of tomorrow . . . as educational trends of the future, the advantages and dangers in machine-made education, and plans for new schools are reported on "The Class of 01."

The latest in electronic teaching equipment is seen in operation on the broadcast. Included is "Plato" for "Programmed Logic for Automatic Teaching Operation," a completely automated teaching machine at the University of Illinois, Urbana; and the multi-media teaching building at Pennsylvania State University, College Park. The Pennsylvania building offers teachers fingertip availability of films, slides, and closed circuit television.

At Detroit, Michigan's, Oakland Community College the training of highly skilled technicians for modern industry is seen,



"PLATO" teaches Physics . . . a teaching computer called "Plato" is used by a student at the University of Illinois, to solve a physics problem that would normally require a laboratory. "The Class of '01" will be featured on "The 21st Century" Sunday, August 13, at 6 p.m. over WBIR-TV, Channel 10.

UCC Chicago Office Will Change Address

After 37 years in the Union Carbide Building, 230 North Michigan Avenue, Union Carbide Corporation will move its Chicago headquarters to Gateway-Center, 120 South Riverside Plaza, according to a recent announcement.

The move of more than 500 employees is expected to be completed by February 1, 1968. First to move into the new offices early next year will be the computer group. The computer center will be part of a network that will link the Corporation's production facilities with sales and administrative offices, making Union Carbide one of the major corporations in the forefront of computer technology utilization.

SCIENCE OF LIVING

'Nothing is less important than which fork you use. Etiquette is the science of living. It embraces everything. It is ethics. It is honor.' Emily Post.

and instruction of educators in the use of electronic teaching equipment is shown at Stanford University in California.

Several bits of Confidential information adds up to Secret information.