



# Y-12 BULLETIN

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

VOL. 21 — NO. 26

OAK RIDGE, TENNESSEE

Wednesday, July 12, 1967



122427  
**LUNCHEON GUESTS HEAR DR. ANDREW HOLT**, president of the University of Tennessee, speak at left. Wendell Russell, Oak Ridge Associated Universities, Director of the Training and Technology program; R. F. Hibbs, Y-12 Plant Superintendent and Manager of



122425  
Production; Holt; and Dr. C. E. Larson, president of the Nuclear Division of Union Carbide Corporation, are seen in the first photograph. At left, O. C. Duck, demonstrates a lathing machine to visitors in the TAT shop. At Duck's back, from left, are Charles Dunn, assistant

commissioner of vocational education for the state of Tennessee; Wendell Russell, ORAU; E. C. Merrill, dean of College at UT; Richard E. Dew, Y-12; W. G. Pollard, director of ORAU; and H. F. Belen, Phillipine College of Arts and Trade.

## State's Vocational, Technical Education Problems Tackled In 2-Day TAT Meeting

More than 100 educators, businessmen and union representatives are meeting in Oak Ridge July 11-12 to discuss ways to improve the state's vocational and technical education programs through closer cooperation with industry.

The Vocational Education and Industry Conference, sponsored jointly by the Tennessee Division of Vocational-Technical Education and the Training and Technology project, is being held at the Alexander Motor Inn.

A highlight of the program was a banquet address on Tuesday by Jim Alexander, Governor Buford Ellington's staff director for industrial development. Mr. Alexander spoke on Tennessee's industrial development program and its relationship to vocational education.

The conference also includes a workshop for all directors and assistant directors of Tennessee area vocational schools, at which time they will discuss plans for intensified studies of cooperative vocational education-industry programs through the Training and Technology project. The federally-sponsored project was established in 1966 to explore ways to utilize industrial resources in combination with those of educational institutions and government agencies to improve manpower training and vocational education. The project conducts work-

er training and teacher training programs at Y-12.

Other featured speakers at the Tuesday session included Charlie M. Dunn, Tennessee's assistant commissioner of education for vocational-technical education; Fred Thornton, supervisor of mechanical training, Tennessee Eastman Company; Paul R. Christopher, Region VIII director, AFL-CIO; Ralph E. Carrier, provost, Memphis State University; and H. G. P. Snyder, industrial relations superintendent, Y-12.

Discussions are scheduled on ideas and opportunities for cooperation by vocational education, industry and unions. Panelists include George W. Oliphant, electronics department superintendent, Y-12; Dana F. Wolfe, administrative engineer, Robertshaw-Fulton Controls Company; William R. Ramsay, head, Resource Development Project, Southern Regional Education Board; Ben A. Hirst Jr., director, Tennessee Area Vocational-Technical Schools; James Pierce, director, Blountville Area Vocational School; and J. C. Case, deputy superintendent, Y-12.

Today will be devoted to tours of industrial facilities in the Oak Ridge area and the facilities of the Training and Technology Project.

## Dividend Is Declared By Y-12 Credit Union

The Y-12 Employees Federal Credit Union has declared a dividend of five per cent per annum payable semi-annually. The dividend has been posted to members' share accounts, according to the board of directors.

Meanwhile, the second winner of the season's door prize was announced. **E. F. Litton, General Machine Shop, had his name drawn for the golf cart. The Credit Union announces that another registration has begun for another prize.**

Be sure to register when you visit the Credit Union.

## TAT Summer Program Opens With Visitors

The South's burgeoning vocational education programs must find ways to link up with industry or much of their impact is lost, the head of vocational-technical education in the state said recently in an address in Y-12.

Speaking to 100 vocational and technical teachers from 10 Southeastern states attending an eight-week in-service training program in Y-12, C. M. Dunn, Tennessee's assistant commissioner for vocational-technical education, said that Y-12 through its participation in the Training and Technology Project is spearheading efforts to provide this needed linkage. "The U. S. Office of Education and the Tennessee Division of Vocational-Technical Education are vitally interested in this project," he stated.

Dunn pointed out that a recent surge in legislation and appropriations for vocational education and manpower training has resulted from a critical shortage in industry of skilled and technical personnel; and efforts to combat poverty through reducing unemployment and school dropouts.

But unless close ties between education and industry are developed in providing the needed training, vocational education programs will become isolated from the real world of work, he concluded.

### Dr. Holt Speaks

Dunn spoke in place of J. H. Warf, state commissioner of education, who had planned to attend the official welcome ceremonies for the teachers. (Warf was called to Washington.) Dr. Andrew Holt, president of the University of Tennessee, which has primary responsibility for the TAT teacher training programs, welcomed the teachers on behalf of the university.

Following the ceremonies with the teachers, Holt, Dunn and other visitors were guests of the Nuclear Division of Union Carbide



122428  
**A FAMOUS ANDY HOLT** anecdote is enjoyed in the top photograph. In the lower picture, E. J. Greeley, ORNL, instructor in glassblowing, shows some of the various forms designed in the shop to W. G. Pollard, Wendell Russell; Professor Joe Reed, UT Vocational Department; and Charles Dunn, with the State of Tennessee Department of Education.

Corporation at lunch in Y-12. At the luncheon, Dr. Holt lauded Carbide's participation in the TAT project as "not only fine from a training standpoint, but also as a marvelous demonstration of what industry and education can do when they get together." Dr. C. E. Larsen, president of the Nuclear Division, introduced Holt. Among other Carbide officials present was R. F. Hibbs, manager of production and Y-12 Plant superintendent.

Dr. E. C. Merrill, dean of UT's College of Education, told the luncheon guests that the TAT in-

service teacher program has long-range ramifications for education of vocational and technical teachers. "If we are going to have the kinds of teachers we need in this era of specialization we must get very close to industry and stay there. We have learned a lot at the University of Tennessee through this program, and we hope we can extend these summer institutes."

### In Other States

Wendell H. Russell, Oak Ridge Associated Universities, TAT project director, said efforts also have

Continued on Page 4

## SAFETY SCOREBOARD

The Y-12 Plant Has Operated 86 Days Or 2,447,000 Man-Hours (Unofficial Estimate) Through July 9 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*

Member Appalachian Industrial Editors Association

American Association Industrial Editors

OFFICE

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

## Harris Daughter Is Miss Senior



Joan Harris

"Miss Senior" at Lake City High School was Joan Harris, daughter of W. O. Harris, A-2 Shops, 9212. Joan is a 1967 graduate at LCHS where she was also named band sponsor.

For the last four months she was worthy advisor of the Order of the Rainbow for Girls No. 106 and was recently named a member of the "Grand Cross of Color" for outstanding service.

The Harris home is at Route 2, Lake City.

Joan's brother, T. C. Harris, is also in Y-12, working in Production Assay.

## Yugoslavic Scientist At Physics Seminar

Milorad Mladjenovic, Boris Kidrich Institute of Nuclear Sciences, Belgrade, Yugoslavia, will speak at this week's Physics Division seminar. His subject will be "Study of Internal Conversion Process."

The seminar is set for Friday, July 14, at 3:15 p.m. in the East Auditorium of ORNL's 4500 Building.

## 'Man-Made Man' Set On '21st Century'

"Man-made Man" will be the challenging study on the '21st Century' Sunday, July 16.

The color telecast is seen on WBIR-TV, Channel 10, at 6 p.m. every Sunday and is sponsored in the public interest by Union Carbide Corporation. Walter Cronkite emceeds the interesting show.

## BIG OUTPUT

The daily world-wide publication of scientific papers would fill seven complete sets (24 volumes) of the Encyclopedia Britannica.

# Off-The-Job Safety Importance Is Shown

Why were Y-12's safety efforts for the entire month of June devoted to off-the-job accidents? Just look at the record.

Y-12 had a shocking total of 71 lost-time off-job injuries in 1966, as compared to eight on-the-job injuries. In other words, employees had only one lost-time injury on the job for every nine away from the job.

The non-occupational experience through June of this year has been even more frightening: Autos—13 Disabled (Including four fatalities).

Home—13 Disabled (four days to 90 days each).

Public—Two disabled (for 21 days and 23 days), and the reports for the period are still far from complete.

Why is there such a contrast between on-job and off-job safety performance? Most employees are safety conscious from the moment they walk into the Plant until they leave. But they do not take their safety habits and attitudes home with them. Isn't the health, safety, and well-being of you and your family worth that extra moment of thought and preparation before you do something that may cause an accident?

**TAKE SAFETY HOME WITH YOU!**

What kind of accidents happen off the job? Here are some of the most common accidents as related by Y-12ers:

**CAR ACCIDENTS**—Employee died from head injuries when car overturned for reasons unknown. Employees suffered whiplash; chest contusions; leg contusions; strained back, neck, knee, etc., all from car accidents.

**FALLS & SLIPS**—Fell from ladder—bruises of chest. Fell from mowing machine—strained back. Fell downstairs — fractured arm. Slipped and struck toe against table. Fell in bathtub—injured ankle. Slipped on piece of pipe lying of floor, struck head, neck, and sprained ankle. Slipped while carrying couch—back strain. Slipped while mopping floor—dislocated knee. Fell on ice—broken wrist.

**SHARP OBJECTS**—Laceration of hand on broken glass. Stepped on nail—infected foot. Using linoleum knife on plywood paneling, brought knife down and lacerated left arm.

**SPORTS**—Pulled back muscle tying up boat. Tore leg ligaments playing

football with son. Injured back and eye while swimming.

Fell from horse — muscle strain and bruises.

Racing car—hot water from radiator burned face and eyes. **IMPROPER LIFTING**—Sprained back changing tire. Strained shoulder moving furniture.

Remember, each one of these accidents happened to people you know here in the plant . . . or to YOU!

The average days lost per each accident last year was 111 days—

All Y-12ers, during the month of June, viewed the very fine slide presentation on accidents away from work. Narrated by H. G. P. Snyder, superintendent of Y-12's Industrial Relations, the colored slide show included remarks by R. F. Hibbs, plant superintendent; and J. M. Case, deputy plant superintendent.

Lieutenant G. C. Haun, Tennessee Highway Patrol, a guest last year at safety meetings, also made a plea for defensive driving on the highways.

Two Y-12ers related experiences which led them to disabling injuries at home. W. E. Heckert, superintendent of Area Five Maintenance, told of spilling a pan of hot grease on his bare feet while preparing a steak sandwich. L. J. Adkisson, Electrical Department, graphically described an accident in his brother's workshop wherein the electrician lost two of his fingers.

Dr. Paul Spray, orthopedic surgeon in Oak Ridge, described some of the mutilating accidents he has witnessed in his experience here.

James Isbell, Aetna Insurance Company representative in Oak Ridge, also detailed many of the financial strains that accompanies an accident.

The entire project was initiated by the Safety Department. It struck home the pain, financial strain, and worry of an accident. Personally related, it proved a most effective weapon against home injuries.

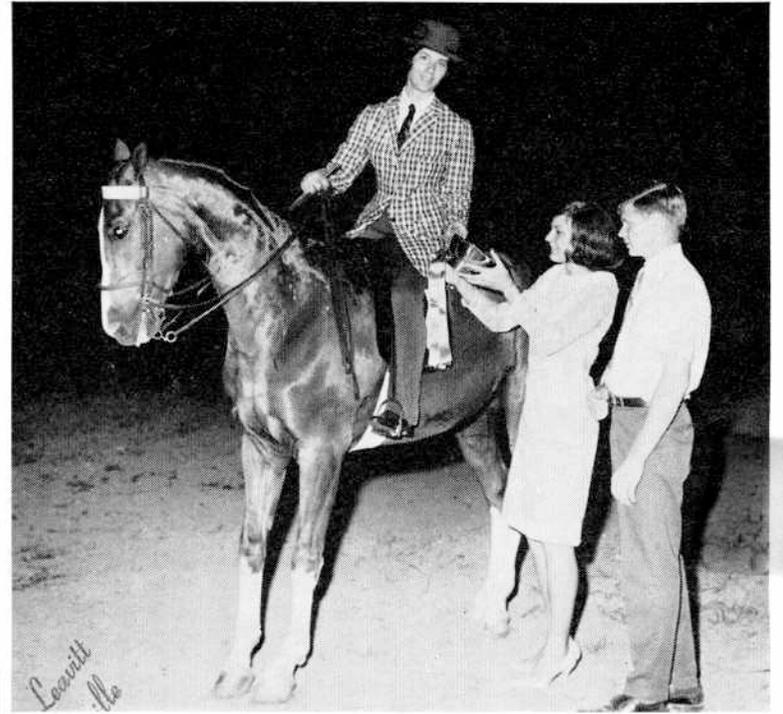
From last year's off-the-job injuries we find that there was a loss of 22 years from the job last year! . . . that for every million hours the Y-12 plant worked, there were seven off-job injuries (compared to less than one occupational accident per million plant hours worked)! . . . that every week of the year, an average of one and one-half off-the-job injuries occurred to Y-12 employees . . . that once every 112 hours an employee had an off-the-job injury that resulted in loss of time from work.

A breakdown of off-the-job injuries by division shows:

Division	Transportation	Home	Public	Total
Accounting & Budget	0	0	0	0
Assembly	1	0	0	1
Development	0	0	2	2
Engineering	1	2	0	3
Fabrication	7	6	6	13
Industrial Relations	1	1	1	3
Maintenance	8	12	3	23
Materials & Services	1	4	0	5
Metal Preparation	2	1	0	3
ORNL	3	4	3	10
Shift Superintendents & Utilities	1	1	0	2
Technical Services	3	3	0	6
<b>Total</b>	<b>28</b>	<b>34</b>	<b>9</b>	<b>71</b>

The above 71 injuries were to employees only . . . many more family members were injured, but records are maintained only on those members of the family who work here.

Let's stop hurting ourselves. Let's take the safety philosophy which works so well in the plant home with us. It requires just a little effort, and the rewards are great!



**DEBBY RICE, ASTRIDE VICTORIAN CAVALIER**, takes another trophy. Debbly, Huge Rice's daughter, in Timekeeping, likes the American saddle horse. The father of the handsome steed above was a champion five-gaited stallion. Debbly, a senior, at Clinton High School, has won her fair share of ribbons and trophies.

## 'A Horse Is A Horse' Not So Avers Timekeepings' Rice Daughter

To us, the uninformed, uninitiated, a horse is a horse! But don't make such a remark to Debbly Rice, daughter of Hugh Rice, Timekeeping. And Debbly has ample proof to back up her knowledge of the beautiful animal, too.

A senior at Clinton High School (coming up this year), Debbly is the proud owner and rider of Victorian Cavalier, a five-year-old American saddle horse. The ribbons and trophies the handsome steed has helped Debbly win may well put him in the class of his champion five-gaited father.

Look at the prizes Debbly has collected—42 ribbons in the past three years . . . seven so far in 1967 (six of these were first-place ones, too) and 12 trophies in all during the past three years.

The shows so far where they have shown were at LaFollette (two first places, one second), Powell (two first places), Lenoir City (first place), and Carter (first place in championship pleasure).

Debbly explains equestrianism



The year spins beyond its mid-term spot . . . and more Y-12ers add special landmarks with their Union Carbide Corporation careers. Congratulations.

### 20 YEARS

**Conrad R. Roberts**, Graphite Shop, July 14.

### 15 YEARS

**Paul E. Clifton**, Process Maintenance, July 14.

**Robert W. Jackson**, Instrument Engineering, July 14.

**Frank D. Jeffreys**, Beta Two Forming, July 15.

**Troy N. Burklow Jr.**, Environmental Control Engineering, July 16.

**Ben A. Easter**, 9766 Machine Shop, July 17.

### 10 YEARS

**Olga T. Barnes**, Engineering Division, July 15.

**Theodore Newman**, Specifications and Systems, July 15.

**Donald G. Scott**, Metallurgical Development, July 15.

in two different classes: the pleasure class where the horse and rider are judged on their performance, quality and manners. The horse is ridden at a quick but easy pace with the rider in a comfortable position. Only three gaits are required—the walk, free and easy-going; the trot—collected, and the canter—slow gallop which is one of the most beautiful and graceful gaits, and one of the easiest to ride.

Then there's the saddle seat equitation class where the judging is done primarily on the demonstrated ability of the rider to handle his mount. The horse is not judged or rated in this class. Tests the judge may ask the rider include: pick up reins, dismount and/or mount, figure eight at a trot and/or canter lead, ride without stirrups, change horses and ride, and answer questions on anatomy, tack and equitation.

Debbly has been in shows for three years in Powell, Oak Ridge, Stock Creek, White Pine, Knoxville, LaFollette, Carter, Lenoir City, Clinton, Rockwood and Halls.

Last year at CHS, Debbly found time to be active in the Pep Club, Science Club, and has been a member of the National Honor Society for two years.

The latter, of course, makes old Dad feel mighty good.

So, apologies to Debbly Rice. A horse is NOT just a horse. That's a mistage we won't make again.



"You neglected to mention why you left your former employer."

## Melton Hill Golf League Sees Tie

It's a tie in the Melton Hill Golf League, after last week's nine-hole match.

The Butler-Wright duo, and Alvey-Gamble pair stand at 27 points won . . . only nine lost. Herm Butler, firing alone, tamed the Winstead-Batch team for the full sweep of six available points . . . as did Harold Alvey, alone, over Clabough-Nobles. The Tiller-Nichols pair moved up by downing the Grubb brothers. Garber-Huddleston swept past Smith-Bryant . . . as the Sises did past Shelton (shooting for the Gresham-Brown team). Paul Johnson defeated the Hamby-Braden team for the full count. Taking five were Thompson-Rogers over Dill-Thomason . . . and eking four out were Huffman-Hogg over E. Smith-Goodwin.

Low scratch scores went to Hogg, 41; Nobles, 42; and Nichols, 42.

Low handicap cards were turned in by Alvey, 36; Goodwin, Nichols, Poly, Hogg and Garber, all with 37.

League standings follow:

Team	W	L
Butler-Wright	27	9
Alvey-Gamble	27	9
Tiller-Nichols	24	12
Winstead-Batch	23	13
Garber-Huddleston	23	13
Huffman-Hogg	22	14
Morehead-Poly	22	14
Hamby-Braden	20	16
Thompson-Rogers	20	16
E. Sise-B. Sise	20	16
J. Grubb-B. Grubb	18	18
Johnson-Roberts	18	18
Clabough-Nobles	16	20
E. Smith-Goodwin	16	20
Perry-T. Butler	13	23
Gresham-Brown	9	27
Dill-Thomason	4	32
J. Smith-Bryant	2	34

### EVERY 10 MINUTES

Every 10 minutes two persons are killed and 200 injured because of accidents in the United States, according to the National Safety Council. Cost amounts to \$360,000 . . . plus the incalculable value of human lives.

Safety should be "made in America."

## Recreation



### Monday, July 17

**SOFTBALL:** 6:15, 7:30, 8:45 p.m. Pinewood Park. Big Shops vs. Eagles; K-25 Mets vs. K-25 Slugs; K-25 Sports vs. Bat Boys.  
**PHYSICAL FITNESS:** (For Women) 7 p.m., Oak Ridge High School Girls' Gym.

### Tuesday, July 18

**SOFTBALL:** 6:15, 7:30, 8:45 p.m. Pinewood Park. Braves vs. Pirates; Flyers vs. Eagles; Falcons vs. K-25 Slugs.  
**PHYSICAL FITNESS:** (For Men) 7:30 p.m. Oak Ridge High School Gymnasium.

### Wednesday, July 19

**CARBIDE RIFLE LEAGUE:** 7 p.m., Clinton Rifle Range.  
**GOLF:** 4:30 p.m. Deadline for entering July 22 Tournament scheduled at Southwest Point, Kingston.

### Thursday, July 20

**SOFTBALL:** 6:15, 7:30, 8:45 p.m. Pinewood Park. Big Shops vs. Bat Boys; K-25 Mets vs. Pirates; K-25 Sports vs. Braves.  
**ARCHERY LEAGUE:** 5:15 p.m., Oak Ridge Sportsmen's Association.

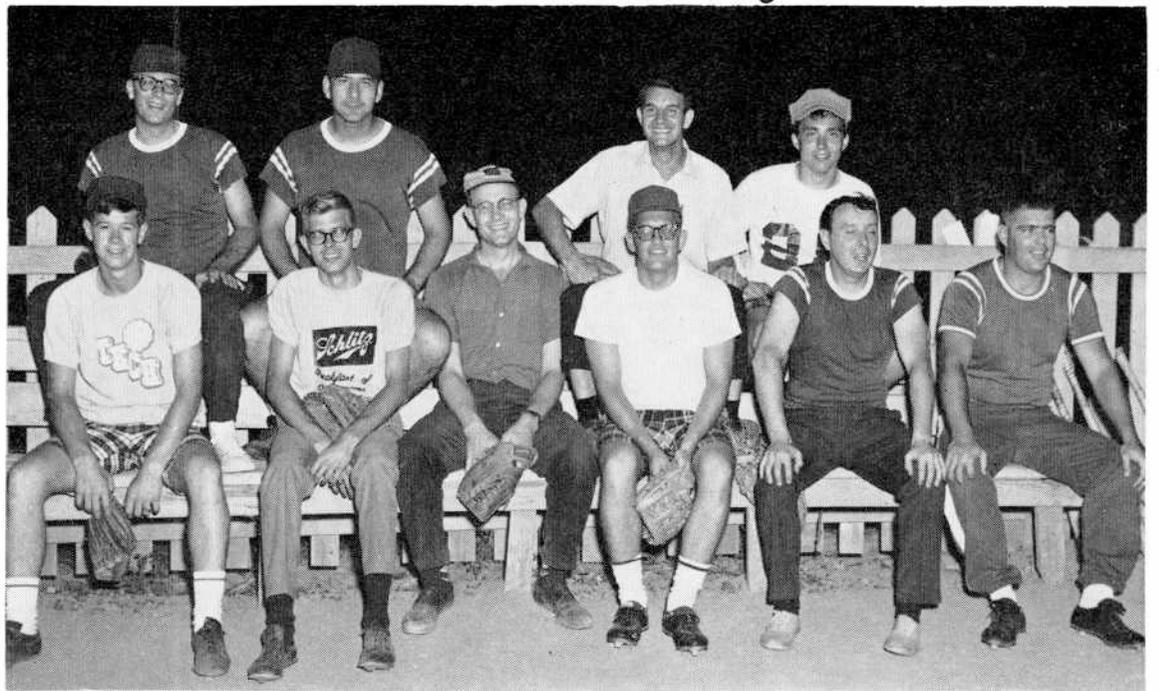
**HORSESHOE LEAGUE:** 7 p.m., City Courts, Oak Ridge.

### Saturday, July 22

**GOLF TOURNAMENT:** Beginning 6:30 p.m. Southwest Point, Kingston.

### WET PAINT

A painter at Argonne National Laboratory decided that "Wet Paint" was not enough on a sign. He wrote "A decorative coating has been recently applied to these vertical surfaces. Insufficient time has elapsed to accomplish a complete oxidation of the volatile vehicle. You will find it beneficial to exercise extreme caution when passing adjacent to these surfaces to avoid a transfer of pigment." Reports were that nobody touched the wet paint!



**ANOTHER BIG TEAM IN THE SOFTBALL LEAGUE** is the Bat Boys . . . or is it 'are'? Seated from left are R. D. Dobbs, Charles Anderson, Leo Brown, Jim Bailey, Manager B. C. Sims and Glenn Bryson. In the back row are Hugh Beeson, Glenn Kitchings, Romeo Greene and Dave Hendrickson.

## Y-12ers Sweep June Skeet Meet

The Carbide Skeet Tournament fired another round Sunday, June 11. (Another round was fired this past Sunday, July 9).

Y-12ers swept the top three spots in the June firings. Charlie Asmanes took top slot with a handicap score of 49.850. T. R. Webber came in second with 49.200 . . . Carl Brewster, 48.302.

Among the others getting 49 of 50 birds were Harry Wills and Fred Welfare, both of ORNL.

Tommy Webber was pushing hard with 46 of 50, using a 20 gauge gun, which is smaller in size. Tommy says the smaller gun doesn't tear up the birds as much.

### June 11 Scores:

Firer	H'Cap Score
R. A. Allstun, Y-12	47.729
T. R. Webber, Y-12	49.200
W. H. Davy, K-25	47.440
L. M. Bray, Y-12	46.160
C. Asmanes, Y-12	49.850
F. Welfare, ORNL	49.407*
H. Wills, ORNL	49.830*
K. Bahler, K-25	48.560*
F. A. Stewart, Y-12	46.960
C. Brewster, Y-12	48.302
J. Barton, K-25	46.960

\* Under penalty from previous winnings.

## Hikers Plan Camp In Pickett Park

The Talahi Chapter of the National Campers and Hikers Association has changed their July 15 date to Saturday, July 22. The NCHAers will go to Pickett State Park camp ground for hiking, swimming and boating. There is a \$2 per day fee.

Driving instructions: Proceed to Oliver Springs via State Highway 62, turn right, north on US Highway 27, go to Elgin, turn left on State Highway 52, go to Jamestown. Watch for signs to Pickett—good road. Call Dean Reed, extension 3-5933, or George Holt, 3-1105, for further information.

Good hiking, swimming and boating facilities available. There may be a special tour of some of the primitive areas there.

Those who missed Linger Lake missed a fine campout. T. Avery caught a nice sized large mouth bass which the Holt's helped consume. Marian Reed and Carol Holt toured the lake most of Saturday and Sunday. The nice quiet campground was enjoyed by all, and the youngsters had a specially good time swimming.

A little inflation is likened unto a little pregnancy.

## Y-12 Braves Down Old Foe, K-25 Mets, In Lone Diamond Action During Rains

Only one game got under the wire in last week's Softball League, as the monsoon season hit the East Tennessee hills.

A pre-fourth game saw the Braves once again tackle their old mortal enemies from K-25 the Mets . . . downing them again, this time to the merry tune of 13 to 2. Rick Hull poled the only homer of the game on the winning side, as Tracy Vann allowed only nine hits on the bats of the Mets.

Three forfeit games were posted on the boards, as the Pirates posted a victory over the Big Shops, the Bat Boys over the Fal-

cons . . . and the K-25 Sports over the Big Shops.

Tuesday's and Thursday's games were deferred for a dryer day.

League standings follow:

Team	W	L
Pirates, Y-12	2	0
Flyers, Y-12	1	0
K-25 Slugs	1	0
K-25 Sports	2	1
K-25 Mets	1	1
Eagles, Y-12	1	1
Braves, Y-12	1	1
Bat Boys, Y-12	1	1
Falcons, Y-12	1	2
Big Shops, Y-12	0	3

### IS COLLEGE ABSOLUTE?

"Why shouldn't young people who haven't a good, sound scholastic background for college, or who are temperamentally unsuited for college, tackle the best job they can find for a few years after high school? They can pick up invaluable experience, save from their earnings, take extra training at night, and then go after a job in the field they want and into which they fit. Or they can invest in their own business, be it a gas station or beauty parlor. They will be happier that way — and the sooner they start, the quicker they'll be independent." R. O. Snelling, **You Don't Have To Go To College.**

### HIGHER EDUCATION

The head of a well-known university says he is trying to develop a curriculum and a school that the football team can be proud of.



**J. C. BISHOP, M-WING SHOP,** and Larry Bishop ventured out on Loudon Lake at Concord amidst all the skiing and boat traffic one Sunday afternoon in May to do some big bass and crappie fishing. Having located the ideal spot and with a container of fat, sleek, robust Spring lizards, they proceeded to get underway. They soon learned that the blue cats have Spring lizards on their menu, too, and the results were 12 cat fish, one weighing 49 and one-half pounds! They used the boat rope for a stringer.

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

Saturday, July 22

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, July 19. Tee-off times will be drawn the next day, Thursday, July 20, 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



**J. W. JACKSON, SPECIAL SERVICES**, got a special treat June 7 when twin girls were born to his son and wife, Mr. and Mrs. Alvie Lee Jackson, Dyer, Indiana. Alvie Lee attended school at Oliver Springs, Tennessee and now works in Dyer. Mrs. Jackson is the former Palma Kerby, Memphis. The little girls' names are Dawny Lee and Donna Lynn.

## Sanders Describes Monitoring System

Two time-saving radiation monitoring systems under development at Y-12 have been described at an international meeting on radiation safety in Vienna, Austria.

The methods were revealed by Merwyn Sanders, Supervisor of Health Physics at Y-12.

One of the systems is a technique for instantaneous detection of alpha radiation from airborne uranium dust particles within a building where radioactive material is handled.

The equipment consists of a number of alpha detectors located in appropriate work areas, an alpha detector located in an air supply duct and a central receiving station which continuously records the information from all the monitors.

The monitor in the air duct detects only natural alpha activity and acts as a reference unit, while the monitors in the work areas detect both the natural and man-made alpha activity.

The activity detected by the reference unit is continuously subtracted from the units in the work areas to determine the true amount of process-generated activity.

The second safety system described at the meeting would permit safety inspectors to perform rapid analyses of the air environment at an industrial plant while driving about the area in a vehicle.

The sampler unit employed in this system can be powered by the vacuum from the intake manifold of an automobile engine. This unit, which samples one cubic foot of air per minute, can

## Union Carbide Is Pioneer In Plastics

A pioneer in the plastics field, Union Carbide Corporation provides industry with more than 1,000 different formulations of many different types of plastics—including ABS plastics (acrylonitrile-butadiene-styrene), acrylics, epoxies, parylenes phenolics, phenoxies, polyethylenes, polypropylenes, polystyrenes, polysulfones, and vinyls. Some of these products are sold in the form of powdered and liquid resins; others, in the form of rigid or flexible film and sheeting. Customers then mold, extrude, or otherwise fabricate these materials into the many familiar plastics products that are used in everyday life. Manufacturing operations have been broadened to include the production of several finished plastic products, such as bottles and bags, and a line of children's products—including a car seat, recliner, and high chair. Plastic films for industrial and household uses are also produced.

be used with filter paper or a liquid scrubber.

NOTE: Additional information on these and other radiation monitoring techniques was contained in a paper, "Innovations in Air-Monitoring Techniques for Large-Scale Programs," presented at the International Atomic Energy Agency Symposium on Instruments and Techniques for the Assessment of Airborne Radioactivity in Vienna, Austria, July 3-7. Proceedings will be published by IAEA.)

Benefactor: One who makes two smiles grow where one grew before.

## TAT Summer

Continued from Page 1  
begun toward making the in-service institutes an ongoing program in states other than Tennessee.

Dunn, in his address to the teachers, said that "the spotlight shines as never before on preparation for the world of work." Among the problems in providing adequate training today is the rapid growth of technological information. Keeping abreast of developments in the field is difficult for the vocational-technical teacher. Until now, he added, efforts to provide updating for teachers have been informal and somewhat haphazard. "An effort of the type provided by this institute offers an excellent opportunity and promise. This is the first institute of this kind in the country and we hope you will benefit from what it is intended to do."

Dunn said the basic reason for new emphasis on vocational education and training is the population growth and shift toward urbanization. The population in Tennessee alone has increased 7.8 per cent in the last five years. "Will this mean more skilled workers available to the labor force or will it mean a rise in poverty? The answer is up to you," he stated.

### New Jobs Created

He pointed out that 35,000 new jobs were created in Tennessee through industrial development in 1965 and this figure is rapidly increasing.

Dunn pointed out that expansion of vocational education in the state in recent years has brought "marked success in reducing the high school dropout rate."

He also cited two other TAT programs—a nine-month degree-credit institute for students preparing to become vocational-technical teachers and a 52-week program to train workers in advanced industrial skills—as important experiments in utilizing industrial resources to provide better vocation training.

Dunn was introduced by Dr. William G. Pollard, executive director of Oak Ridge Associated Universities.

Other guests present included Dr. B. E. Childers, regional representative, Bureau of Adult and Vocational Education, U.S. Office of Education; Professor Joe Reed, head of UT's Department of Industrial Education; and Dr. H. F. Belen, chairman of graduate studies, Philippine College of Arts and Trades, Manila. Dr. Belen is in the United States observing teacher education, vocational education and manpower training programs.

H. G. P. Snyder, superintendent of Industrial Relations, took the visitors on a tour of the TAT training facilities.

The In-Service Institute, the second to be conducted through the TAT project at Y-12, began on June 19 for the 10 teachers and will end August 11. The first institute, conducted last summer, was attended by 60 teachers. This year's institute is specializing in four skill and technical areas—mechanical technology and drafting; machine shop and fabrication; electronic technology and maintenance; and physical testing and welding inspection.

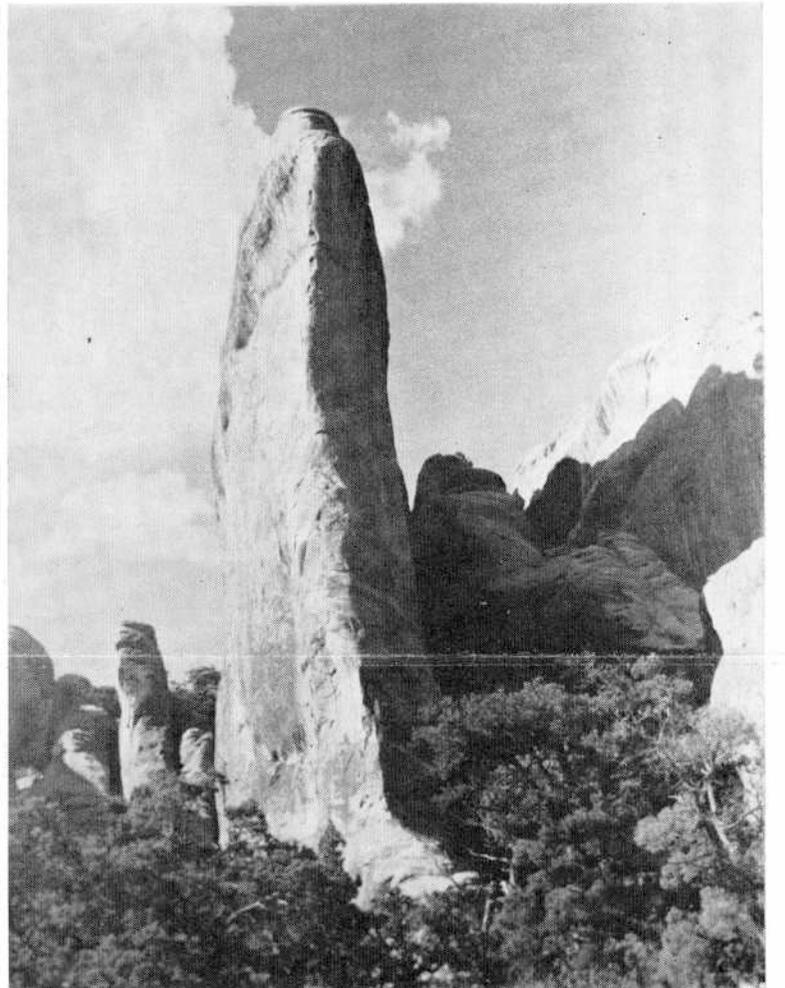
The teacher training portions of TAT are supported by the U.S. Office of Education through interagency agreements with the U.S. Atomic Energy Commission.

### SPEAKERS, BEWARE!

"This year's commencement speakers are urged not to frighten graduates by telling them the world is theirs."



'SURF' A CLASSIC STUDY of a couple at the beach won W. L. Russell kudos at the Carbide Camera Club's Salon. Other Y-12ers winning in the beautiful entries included Anna Dobbins, Bill Harper, R. E. Sladky and Cliff Johnson.



'MAJESTIC' BROUGHT J. C. JOHNSON second place in Pictorial Landscapes in the Camera Club's 1967 Salon. The Salon opened for public showing during the last two weeks of June.

## Carbide Camera Club Announces Salon Winners As Show Closes

The Carbide Camera Club has just announced winners in its 1967 Salon. The entries were shown to the public the last two weeks of June in the Ridgeway Shopping Center.

In the color competition . . . Peggy Turner, ORNL, took two silver medals in the Open competition and in art and design. Harry Arnold took top honors in the Nature series. R. D. Sladky, Y-12, won accolades for his portrait, and Lee Andrews, ORNL, for his pictorial entry.

First places went to Dave Jones, Open and Nature; Anna Dobbins, Y-12, Nature-Animals; A. Abbatiello, ORNL, Open-Animate; R. L. Wilson, Portraits, adult; H. G. Arnold, Portraits, children; Herman Postma, Pictorial-landscapes; Don Rucker, Art Design; and Bill Harper, Y-12, won three first places for Pictorial-architecture; Abstractions; and Texture and patterns.

Black and White print winners saw Bob Stephenson, ORNL, win two silver medals for his Art and Design, and Open category; W. L. Russell, ORNL, pictorial and Cliff

Johnson, Y-12, portraits.

First place winners were Dave Bourgette, six subcategories; Bob Manis, K-25, two subcategories; and Y-12's W. L. Russell, one subcategory.

In the color print competition Dave Bourgette took a silver medal for Portraits; Peggy Turner for Open category; and Dave Dunthron, K-25, landscapes. No first places were awarded in the color print division.

The Camera Club also presented a pictorial view of the Atomic City through the years in conjunction with the 25th anniversary of the founding of Oak Ridge.

### Today Is Last Day For Badge Exchange

Today, Wednesday, July 12, is the final day in the current badge exchange. No old yellow-bordered badges will be honored at the portals after 11 p.m. tonight.

If you have failed to pick up your new blue-bordered badge, you must come by Badge and Pass Office, Building 9704-2, to make the exchange.