

Division Honored For Improvements

Union Carbide Corporation has received a merit award as finalist in the competition for the 1969 Kirkpatrick Chemical Engineering Award.

The presentation was made to Roger F. Hibbs, president of Union Carbide Corporation's Nuclear Division, at a dinner recently at the Hotel Pierre, New York City.

Chemical Engineering, sponsor of the 20th biennial competition, presented the Kirkpatrick Award to General Mills, Inc., Minneapolis, Minn.

Union Carbide was cited for making significant improvements in the gaseous diffusion process, which resulted in making nuclear power competitive with power from fossil fuels.

The aim of the Kirkpatrick Award is to honor an outstanding chemical engineering group achievement that reached commercial stature during 1967-68. The five finalists for the award were selected by 112 department heads of accredited U. S. chemical schools. Selection of the winner was made by a board of nine chemical engineering professors.

Other merit awards were made to:

Imperial Chemical Industries, Ltd., London, for a process that synthesizes methanol at low pressure.

Monsanto Co., St. Louis, for a technique to remove sulfur oxides and flyash from fossil-fuel gases.

PPG Industries, Inc., Pittsburgh, for an oxychlorination/oxyhydrochlorination process for producing perchlorethylene and trichloroethylene.

Year At Niels Buhr Topic—Physics Seminar

A joint Physics and Electronuclear Division seminar Friday will feature E. Eichler, ORNL Chemistry Division, speaking on "Some Reflections on a Year at Niels Bohr Institute."

The seminar is set for Friday, December 12, at 3:15 p.m. in the East Auditorium of ORNL's 4500N Building.

Siren Test Today

A reminder. A high voltage test on all radiation monitor systems in Y-12 will be made today, Wednesday, December 10 at 9 a.m.

A voice announcement will be given at 8:30 a.m. today, and another one immediately prior to the tests.

Employees need not leave their work stations for the 15-second tests on the radiation sirens.

A voice announcement will also announce the termination of the tests.

SAFETY SCOREBOARD

The Y-12 Plant Has Operated 82 Days Or 2,975,000 Man-Hours (Unofficial Estimate) Through December 7 Without A Disabling Injury SAFETY AT HOME, AT WORK, AT PLAY



NEWLY REGISTERED PROFESSIONAL ENGINEERS are seen at their presentation ceremonies recently at the Oak Ridge Country Club. Kneeling in front, from left, are Tom E. Douglass, president of the Oak Ridge Chapter of the Tennessee Society of Professional Engineers; George Jasny, Superintendent of Engineering, Y-12; and J. A. Parson, Superintendent of Engineering, K-25. In the back, from left, are M. L. Gregg and H. L. Hicks, Y-12; A. M. Rom, X-10;

W. A. Baldauf, W. A. Groppe and D. L. Foulk, Y-12; W. A. Bush, X-10; G. R. Bright, Y-12; A. D. Cannon, X-10; R. G. McKnight, Y-12; P. E. Stein, K-25; W. K. Forrester, L. S. Hawk, Y-12; Floyd Hipshire Jr., K-25; H. G. Duggan, X-10; F. W. Hensley, K-25; and Floyd Culler Jr., Assistant Director, Oak Ridge National Laboratory. (Y-12er William J. Smith was unable to attend the ceremonies.) Congratulations to Y-12's newly registered engineers.

10 Additional Engineers Here Are Registered

The Nuclear Division of Union Carbide Corporation has 16 newly registered professional engineers—10 of them from Y-12. The certificates were presented by the registrant's respective plant engineering superintendent at an Oak Ridge Chapter meeting of the Tennessee Society of Professional Engineers held last month at the Oak Ridge Country Club.

In addition to the certificate presentations, Floyd L. Culler Jr., assistant director of Oak Ridge National Laboratory spoke to the chapter on the Agro-Industrial Complex.

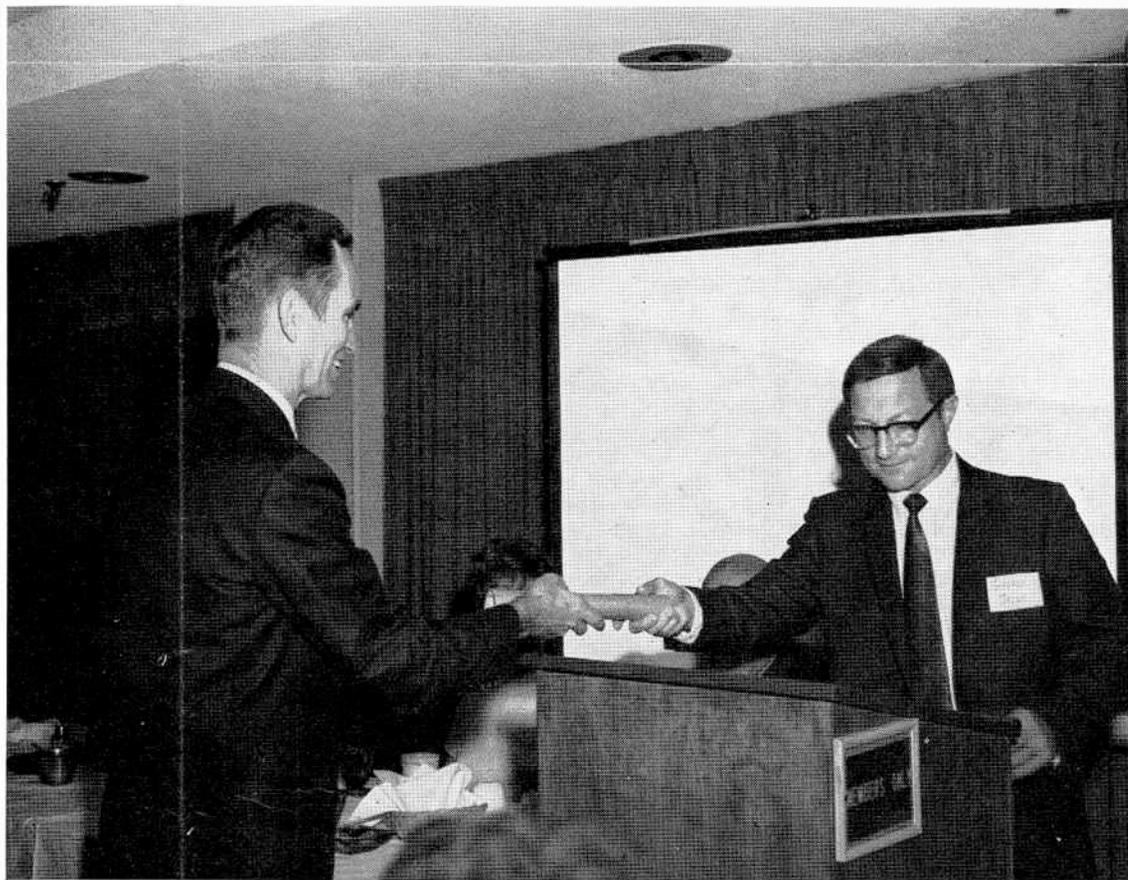
Union Carbide encourages its engineers to achieve professional status, and the ever increasing number of registered professional engineers in the Oak Ridge Chapter of TSPE is a giant witness to Carbide's effectiveness.

Among the Y-12ers honored were M. L. Gregg, H. L. Hicks, W. A. Baldauf, W. A. Groppe, D. L. Faulk, G. R. Bright, R. G. McKnight, W. K. Forrester, L. S. Hawk and W. J. Smith. (Smith was unable to attend the November meeting.)

The TSPE is encouraging all practicing engineers in the Plant to become licensed and registered. In the Engineering Division, an estimated one-third of the staff is licensed. Overall, about 20 per cent of all engineers in Y-12 have obtained licenses.

Thumbnail sketches of the newly registered engineers follow:

WILLIAM A. BALDAUF JR.—A 1949 graduate of The University of Tennessee, BS in Mechanical Engineering. Employed at Y-12 in 1954 and has advanced through a series of positions to his present assignment as Super-



LARRY HAWK, a 1960 graduate of The University of Tennessee, came to Y-12 shortly after his graduation and has worked extensively in an engineering capacity in Maintenance. Above, he receives his Professional Engineering license from George Jasny.

intendent of Numerical Control Engineering in the Engineering Division.

GEORGE R. BRIGHT — 1955 graduate of The University of Tennessee in Electrical Engineering. Worked for the Aluminum Company of America for five years prior to coming to Y-12 in 1960. Currently supervisor of the Maintenance Engineering Section in the Electrical and Electronics Department of Maintenance. Currently working toward a master's degree in Industrial Engineering at UT.

WILLIAM K. FORRESTER — Attended The University of Ten-

nessee, joining Y-12 in 1944. Has worked in wide variety of engineering assignments and is presently a Mechanical Design Engineer in the Mechanical Manufacturing Design Department, Engineering Division.

DEWEY L. FOULK — A 1949 graduate of The University of Tennessee, BS in Mechanical Engineering. Employed in Y-12 in 1954, advanced through a series of positions to his present assignment of the Numerical Control Engineering Department, Engineering Division.

MICHAEL L. GREGG—A 1964 graduate of The University of

Tennessee, Mechanical Engineering. Came here in 1966 and is presently assigned duties a design engineer in the Environmental Control Engineering Department, Engineering Division.

WAYNE A. GROPE—A 1958 graduate of the Milwaukee School of Engineering in Electrical Engineering. Was employed at Y-12 in an engineering capacity in 1958 and is presently assigned as an engineer in the Electrical and Electronics Department of Maintenance.

LAWRENCE S. HAWK — A 1960 graduate of The University

The Bulletin

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



NUCLEAR DIVISION

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Industrial
Editor's
Association

American Association Industrial Editors

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The Old Year wanes and with it fades the decade. Sharing the spotlight in time this week are several Y-12ers marking important dates with Union Carbide Corporation. Congratulations.

25 YEARS

John A. Stewart, Chemical Services, December 12.

Fred W. Harmon, Facilities Engineering, December 16.

20 YEARS

Tom W. Stinnett, Buildings, Grounds and Maintenance Shops, December 14.

15 YEARS

Jack L. Miller, Utilities Administration, December 13.

William E. Heckert, Maintenance Division, December 13.

George M. Martin III, Utilities Administration, December 13.

Thomas E. Buckner, Special Production Scheduling and Coordination, December 13.

John A. McCall, Utilities Administration, December 13.

Emery W. Mahan, Utilities Administration, December 13.

Samuel B. McSpadden, Utilities Administration, December 13.

Hubert R. Cannon, Utilities Administration, December 13.

Edwin F. Fleischman, Radiation Safety, December 13.

Gilbert L. Carson, Utilities Administration, December 13.

Lawrence E. Kinkaid, Physical Testing, December 13.

Walter A. Dossett, Area Five Maintenance, December 13.

Jack C. Thompson, Metallurgical Development, December 15.

Sheila C. Rewan, Product Information Center, December 15.

10 YEARS

Mary P. LeCroy, Research Services, December 10.

Robert E. Banken, Beta Four Heavy Machine Shop, December 14.

Zelma T. Laurendine, Medical Department, December 14.

Richard C. Cawood, Product Engineering, December 14.

Richard E. Myers, General Expediting and Auxiliary Services, December 14.

John D. Clark, General Machine Shop, December 14.

AEC's TAT Program Will Train 300 Next Year

The U.S. Atomic Energy Commission will provide industrial skill and technical training to 300 disadvantaged and underemployed persons during the next year through the Training and Technology (TAT) project at Y-12.

TAT training is conducted under interagency agreements the AEC has completed with the U.S. Department of Labor, the Department of Health, Education and Welfare, and the Appalachian Regional Commission. Two Tennessee Concentrated Employment Programs (CEP) are also participants.

The project is designed to assist the Commission in meeting its skilled manpower needs at the Y-12 Plant and two other AEC nuclear energy production and research facilities in Oak Ridge—the Oak Ridge Gaseous Diffusion Plant and Oak Ridge National Laboratory.

Broad Objectives

At the same time, it contributes to broader national objectives, both through developing the skills of under-utilized persons in East Tennessee and by helping to meet the critical shortage of skilled workers throughout modern high technology industry.

TAT is administered jointly by two AEC contractors, Oak Ridge Associated Universities, a non-profit educational and research corporation of 41 institutions in the south, and the Nuclear Division, Union Carbide Corporation, which operates the Commission's three major plant and laboratory facilities in Oak Ridge.

Since 1966 the project, which uses available production equipment and personnel at the Y-12 Plant, has trained and placed more than 800 previously unemployed persons from East Tennessee in skilled industrial jobs.

Seven-County Area

Under the new phase of TAT worker training now beginning, the cooperating Federal agencies—AEC, DOL, and HEW—will be joined for the first time in the financial support of the project by the Appalachian Regional Commission, the Chattanooga CEP, and the Tennessee Rural CEP, which serves a seven-county area in middle Tennessee.

These six agencies will share in the total project costs of \$860,000 for the year ending September 30, 1970. Included in this sum are the costs of training, of trainee services such as vocational counseling and placement, and of trainee support allowances.

In addition to making its plant facilities available as the training site, the AEC will, under the new interagency agreements, pay the institutional training costs for 150 of the 300 scheduled 1969-70 TAT trainees. Support allowances for these 150 persons and the costs of trainee services will be provided by the Department of Labor from appropriations under the Federal Manpower Development and Training Act.

Will Assist In Recruits

The Appalachian Regional Commission is to support training and allowance costs for 80 of the remaining 150 trainees, the Chattanooga CEP for 24, and the Tennessee Rural CEP for 46. In addition to their financial participation, these agencies will also assist TAT in recruiting trainees and in job placement after training.

During the training period in Oak Ridge, which averages six months per graduate, those enrolled received subsistence allowance payments which are administered by the Tennessee Department of Employment Security.



WELDING TECHNIQUES, one of the subjects taught in the Training and Technology Project in Y-12 is described to students by E. N. Rogers, center. The AEC has recently announced plans for training up to 300 disadvantaged and underemployed persons during the coming year.

The Department also has recruitment responsibilities for this and other training projects under the Manpower Development and Training Act.

TAT training enables participants to acquire entry-level skills for industrial jobs in three primary areas: as machining operators, as technician aides in drafting, physical testing, electronics, and mechanics, and as combination welders.

To Broaden Careers

In addition to classroom instruction and "hands on" experience in these skills under the guidance of Union Carbide personnel, the TAT curriculum includes trade-related instruction in mathematics, science, and communications, personal and vocational counseling, and special seminars to broaden the trainees' understanding of an industrial career.

Recent TAT graduates have been placed in AEC installations and with 24 industrial firms throughout the country, at starting salaries averaging more than \$6,000 per year. This is a gain of

\$4,000 a year over the average pre-training wage of slightly more than \$2,000 annually.

TAT has also demonstrated a rapid return on Federal funds invested in training the underemployed. Based on the \$4,000 annual increase in individual income, each trainee will repay the Government, through his increased Federal tax payments alone, the entire \$3,000 cost of his training within a four-year period.

Income Enhanced

The first 500 graduates of the program, trained during the first two years at a one-time cost of approximately \$1.5 million, now return an additional \$2 million to the economy each year through their increased earnings.

Follow-up studies of TAT graduates show that more than 95 percent are now holding regular full-time jobs, compared to a full-time employment rate of 37 percent before training. Ninety percent of the graduates are employed in skilled areas related to their TAT training.

Besides Oak Ridge Associated

Universities and Union Carbide Corporation's Nuclear Division, TAT participating agencies and institutions include the University of Tennessee, the Tennessee Department of Employment Security, the Division of Vocational—Technical Education of the Tennessee Department of Employment Security, the Division of Vocational—Technical Education of the Tennessee Department of Education, units of organized labor, and the Oak Ridge Adult Education Program.

Utilities Cheek Died December 4

The plant was saddened by the death of Mr. Howard M. Cheek, foreman in Utilities. He died

Thursday, December 4.

Mr. Cheek came here Mar. 4, 1944. He was born in Loyston, Tennessee, now covered by Norris Lake. He worked in this area most of his life.

The Cheek home is at 1605 Brown Avenue, where his wife Mrs. Edith Cheek survives. A daughter, Mrs. Sandra Roberts, and a grandson, Durham, North Carolina, also survive. Mr. Cheek had a sister also, Mrs. Icy Oakes.

Graveside services were held Sunday, December 7 at 2 p.m. at Greenwood Cemetery. The Reverend Charles Cox officiated at the commitment rites.

Sincere sympathy is extended the Cheek family.

THE MEDIUM IS THE MESSAGE

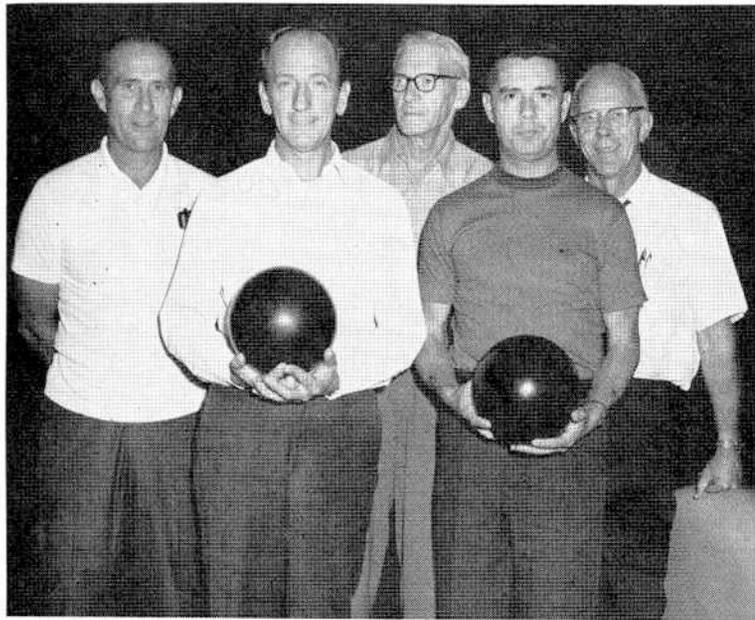
Television will never replace the newspaper.

Imagine trying to swat a fly with the television set or folding it up to fit the bottom of a bird cage.

There's profit in safety, make it your business.



MR. TOUCHDOWN . . . Y-12 Style! Or who threw the overalls in Mrs. Murphy's chowder? A wild, volunteer pumpkin vine decided to climb a steam line near building 9203 during the summer. It produced the oblong pumpkin seen above . . . Some jokers came along, however, and decorated the fellow for the season.



ANIMAL TAMERS in the Classic League include the two teams above . . . big ones, too! In the top photo are the Cubs . . . Jim Thompson, Paul Febbo, Lee Horton, Harvey Hankins and Roger Cloyd, left to right. George Mitchel, captain, wasn't around. In the lower picture are the Tigers . . . Elbert Scott, Frank Tiller, captain; Jimmy Davis, Ernest Ely and R. D. Smith.

Markers Out Front By Six One-Half Points As Classic Nears Half's End

Unless the Markers fall completely on their face in the next two weeks, they should have the Classic Bowling League's first half fairly well sewed up. They now are six and one-half points out after a three-point win last week over the All Stars. The Reb-

els took a four-point sweep from the Has Beens. The only other sweep of the night was the Splinters by the Bumpers.

Posting three were the Tigers by the Eagles, the Pinbusters past the Smelters, the Swingsters superior to the Playboys and the Eightballs edging by the Screwballs.

Sharing two were the Rippers and the Cubs.

Frank Winstead, Swingsters, rolled a 232 single scratch game! Carl Redding, Pinbusters, put down a 254 handicap single. Bill Ladd, Eightballs, rolled a 625 scratch series; and J. C. Bryan, Rebels, rolled a 649 handicap series!

The Markers marked best in singles, 925 scratch. The Pinbusters were best in handicap scoring, singles of 1084 and series of 2975. The Swingsters scored high in scratch series, 2581.

League standings follow:

Team	W	L
Markers	40½	11½
Rebels	34	18
Tigers	29	23
All Stars	28½	23½
Rippers	28½	23½
Has Beens	28	24
Cubs	26	26
Pinbusters	25½	26½
Swingsters	25½	26½
Playboys	25	27
Screwballs	24½	27½
Eightballs	24	28
Bumpers	23	29
Splinters	23	29
Eagles	16	36
Smelters	15	37

Huddleston, Brewer Table Tennis Leads

Two Y-12ers head up the Y Table Tennis League as Gordon Brewer trounced Ram Uppuluri for three games last week, and Ed Gambill posted three at the expense of Ken Toth.

Gene Zeigler also shellacked Toth and Bob Smith. Bill Bardill defeated Art Weinberger for two.

Y League standings:

Player	W	L
Gordon Brewer, Y-12	14	1
Ed Gambill, Y-12	13	2
Art Weinberger, X-10	10	5
Bill Bardill, X-10	10	5
Gene Zeigler, X-10	10	8
Ram Uppuluri, X-10	3	9
Bob Smith, Y-12	0	15
Ken Toth, X-10	0	15

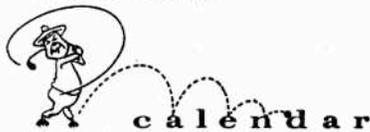
Roy Huddleston continued his tight hold on the top of the X League by downing two opponents all the way . . . Bill Motley and Jerry Keyes. Loyd Wyatt moved up by defeating Jerry Goldstein for the full count and Herb Mook for two. Subbu Raman defeated Motley for two . . . and Bill Foutz downed Goldstein for the same count.

X League standings:

Player	W	L
Roy Huddleston, Y-12	13	2
Herb Mook, X-10	11	4
Loyd Wyatt, Y-12	11	4
Jerry Keyes, Y-12	6	6
Subbu Raman, X-10	6	9
Bill Foutz, X-10	4	7
Bill Motley, Y-12	4	11
Jerry Godstein, X-10	1	14

CHANGING TIMES
Times, they are a-changing. It once took two tons of cotton to make a woman's dress. Nowadays, a silk-worm can do it during his coffee-break!

Recreation



Monday, December 15

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

BASKETBALL: 6:30, 7:30, 8:30 p.m., Oak Ridge High School Gym. Front Court: GBU's vs. Bombers; Metal Loafs vs. Buccaneers; Beta 2 Miners vs. Aggressors.

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

Tuesday, December 16

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, December 17

BASKETBALL: 6:30, 7:30, 8:30 p.m., Oak Ridge High School Gym. Front Court: Computes vs. Road Runners; K-25 Trojans vs. Spoilers; Mod Squad vs. Butterballs. Back Court: Quarks vs. Rollings Bones; Nads vs. CC 69ers; Development All Stars vs. Ail Stars.

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

CHRISTMAS: Deadline for applications to Kids' Parties—4:30 p.m.

Thursday, December 18

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

VOLLEYBALL: 6:30, 7:45, 9 p.m., Oak Ridge High School Gym. Court A: Bombers vs. Y-12 Old Men; Set-Ups vs. Old Men (ORNL); Boomerangs vs. Beavers. Court B: Ecobums vs. K-25 Hawks; Betal 4 Commodores vs. K-25 Gashouse Gang; The Pack vs. Blacksmiths.

Y-12ers Sweep November Skeets

Three Y-12ers led November Skeeters in firing at the November 9 Skeet Tournament held here.

Leon Bray scored a 49.541; as Tommy Webber and Bob Powers came in second and third with scores of 48.887, and 48.339.

Weathersby, Comolander and Perry Bullard fired under handicap penalties due to previous high firings.

Final firings for the year were held last Sunday, December 7.

Carbide Skeet Tournaments are open to all interested marksmen in the plants. No previous experience at skeets is required. Further announcement is expected on Spring shooting and 1970 tournaments.

November firings:

Firer	H'Cap Score
B. Powers, Y-12	48.339
B. Etheridge, Y-12	47.507
Leon Bray, Y-12	49.541
W. Weathersby, Y-12	49.083*
W. Davy, K-25	47.038
T. Webber, Y-12	48.887
V. Raean, K-25	47.818
J. Comolander, Y-12	48.645*
P. Bullard, Y-12	50.000*
Carl Brewster, Y-12	47.879
B. Glover, Y-12	48.205
J. Case, Y-12	47.220
R. McNabb, Y-12	46.800



Ride wanted from Karns community to West Portal, straight day. Rosa Phillips, plant phone 3-7385, home phone Knoxville 584-2833.

Ride wanted from Rockwood to West Portal, E. Shift. Van Vail Jr., plant phone 3-5812, home phone Rockwood 354-2640.

K-25 Trojans Post Two Big Wins As 21-Team Basketball League Debuts

Firing opening guns last week was the big 21-team Basketball League, eight teams coming from Y-12, the remainder from K-25 and ORNL.

Monday saw the ORNL Computes playing cat and mouse with the Y-12 Rats, overwhelming them 84 to 21. Big Jim Treadwell scored 31 points, and only played three quarters. Larry Finch played his usual fine game, scoring 22 points, but really proving his worth on the boards and in the fast break.

The GBU's, Y-12, rolled past the Rolling Bones, ORNL, 69 to 30, in balanced scoring as the GBU's dominated both boards. Ron Gamrot looked like the end of the season as he rammed 22 points through the basket on driving, twisting lay-up shots.

The ORNL Bombers trimmed the Y-12 Buccaneers 46 to 18 in a fairly ragged ball game with both teams making numerous floor mistakes. Herm Thomas showed some of his old form, however, and gleaned 14 points from the basket.

Big Mismatch!

On the other court, it was the Trojans, from K-25, manhandling Development 65 to 9 in a mismatch if there ever was one. The Trojans substituted freely with everybody getting into the scoring act. Development had fun, and at least got a workout.

The Spoilers, ORNL, spoiled the night for Y-12's Mod Squad 61 to 42 . . . and Spoilers they were. The fast-running, sure-shooting team led by the deadly shooting of Robert Taylor in the first half and as good follow-up shooting by Homer Tucker in the second half. The Mod Squad looked good in spurts. Predictions by scorekeepers say that the Spoilers are a team to watch.

The Butterballs, ORNL, belted the Beta 2 Miners, from Y-12, 62 to 48 in Monday's final game. Big Bobby Belt muscled his way to 25 points, leading the Butterballs who handled the ball like mid-season veterans. They were able to control both boards. The Miners could stand some more help under the boards.

Bryson vs. Ferree

Alley Cats Edge Toward Mixed Top

The Alley Cats moved to within one-half point of the Mixed Bowling League last week with a win over the Spare Parts, a four-pointer. Three points went to the Roses 'N Thorns over the Goofers, to the Rollers past the Twisters. The Mustangs and Hits & Misses shared two.

C. R. Lively, Rollers, Roses 'N Thorns, rolled a 246 single scratch game! It was boosted to a 265 handicap. His 570 scratch series was high, and Jim Young, Hits & Misses rolled a 629 handicap series.

Barbara Hackett, Roses 'N Thorns, rolled a 180 scratch, 217 handicap sigle. Her 457 scratch series was high; and Joyce Gilliland, Rollers, rolled a 583 handicap series.

The Mustangs mustered a 659 scratch single . . . and the Rollers rolled an 805 handicap in singles. The Rollers went the rest of the way, putting scores of 1851 scratch, 2325 handicap in series.

League standings follow:

Team	W	L
Goofers	31½	20½
Alley Cats	31	21
Roses 'N Thorns	28	24
Spare Parts	27	25
Rollers	25	27
Mustangs	23½	28½
Hits & Misses	23	29
Twisters	19	33

Wednesday's play saw the Quarks down the Ail Stars 37 to 28. This game turned into a shooting match between John Bryson (Ail Stars) and Don Ferree (for the Quarks). John scored 20 and Don 18 . . . with Lou Fitzgerald and Larry DeRoos spelling the difference in rebounding and play-making.

The Isotopes, ORNL, sailed past the Road Runners, also from ORNL, 52 to 33. The Big I team moved slowly for the first three quarters but then poured it on in the final period. The bigger boys on the Isotopes' team kept them masters of both boards.

Hawks Fly Low

The Aggressors, ORNL, proved too much for the Y-12 Hawks, 47 to 31 . . . with a big third quarter. Good overall rebounding strength for the Aggressors gave them the better edge. Leon Smith stood out on the boards for the Hawks.

On the other courts the Nads posted a victory over their fellow plantmen, the Isotopes, 41 to 37.

Tony Thomas led the victors with 17 . . . Roy Vandermeer with 12 for the losing squad.

Utter Annihilation

Complete annihilation was the word on game two, as the CC 69ers from K-25 marched by the Meat Loafs from ORNL, 76 to 28. Big Jim Williams scored 17 for the winners, West Hightower, 13.

The K-25 Trojans trounced the Quarks 48 to 28, as the Quarks' defense napped in overtime. The Trojans got snowbirds.

League standings follow:

Team	W	L
K-25 Trojans	2	0
Bombers, ORNL	1	0
GBU's, Y-12	1	0
Spotters, ORNL	1	0
Butterballs, ORNL	1	0
Aggressors, ORNL	1	0
CC 69ers, K-25	1	0
Computes, ORNL	1	0
Nads, ORNL	1	0
Quarks, Y-12	1	1
Isotopes, ORNL	1	1
Buccaneers, Y-12	0	1
Rolling Bones, ORNL	0	1
Development All Stars, Y-12	0	1
Mod Squad, Y-12	0	1
Beta 2 Miners, Y-12	0	1
Ail Stars, ORNL	0	1
Road Runners, ORNL	0	1
Hawks, Y-12	0	1
Meat Loafs, ORNL	0	1
Rats, Y-12	0	1

Rounders Are Sure C League Winners!

The Rounders won only two points last week in the C Bowling race, but assured themselves in a top position for the roll-off set for next week. They share two with the Royal Flush.

The Instrument Engineers moved up with a four-point win over the Badgers, as the Parbusters dittoed with a blast over the Fireballs. Taking three were the Big Five past the Rollmasters and the Go Go Gophers by the HiLifers. Sharing two were the Anodes and the Sunflowers.

Del Ducay, Instrument Engineers, set a 224 scratch game up . . . as Bob Jago, HiLifers, hit a 247 handicap single. Ducay's series of 608 scratch, 665 handicap were high.

The Sunflowers sailed into honors in singles, 947 scratch, 1067 handicap. Their 2667 scratch series was high also . . . but the Instrument Engineers rolled a 3007 handicap series tally!

League standings follow:

Team	W	L
Rounders	37	15
HiLifers	32	20
Rollmasters	30	22
Instrument Engineers	30	22
Parbusters	29	23
Badgers	28	24
Sunflowers	27	25
Fireballs	24	28
Big Five	24	28
Anodes	23	29
Go Go Gophers	19	33
Royal Flush	9	43

Alert today—alive tomorrow.



H. L. HICKS, left, receives his Professional Engineering license from George Jasny, superintendent of engineering, Y-12. Hicks, along with eight other Y-12ers added his name to the many already registered engineers in the plant.

Retired Persons

The Oak Ridge Area Chapter of the American Association of Retired Persons will have a special holiday session at 7:30 p.m., Thursday, December 18, at the Ridge Hall.

Christmas singing and refreshment will be part of the program.

Persons nearing retirement—or anyone 55 or over—are cordially invited to attend.

Members are asked to bring a gift of nonperishable packaged or canned goods (something costing about 50 cents and not in Christmas wrappings) for distribution by the Holiday Bureau on the weekend of December 20.

Persons interested in helping

10 Newly Registered Engineers

Continued from Page 1

of Tennessee, Civil Engineering. Came to Y-12 in 1960 and has worked extensively in an engineering capacity in the Maintenance Division. Presently assigned to Product Engineering.

HOWARD J. HICKS—A 1951 graduate of The University of Tennessee, Industrial Engineering. Joined Union Carbide in 1951 and has worked at a variety of engineering assignments here and at Oak Ridge National Lab-

oratory. He is presently assigned duties in Facilities Engineering, Engineering Division.

with Christmas decorations for the meeting should contact Mrs. A. G. Goodlett.

ROY C. McKNIGHT—Attended The University of Tennessee prior to joining Y-12 in 1950. Spent his entire career with Union Carbide in the Y-12 Engineering Division, presently assigned duties as a design engineer.

WILLIAM J. SMITH—A 1961 graduate of The University of Tennessee, BS in Electrical Engineering. Was employed at Y-12 in 1961 and is currently assigned as an engineer specializing in computers in the Electrical and Electronics Department, Maintenance Division.



UNION CARBIDE CORPORATION
NUCLEAR DIVISION
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4 Teams Take Volleyball Sweeps

Volleyball action began last week with 13 big teams entered for winter play.

In the opening night on Court A the Eagles shared two games with the ORNL Old Men . . . the Men winning the first two 15-9, 15-3, the Eagles taking three and four 15-7, 16-14. The Beavers belted the Bombers for the full four . . . 15-6, 15-3, 15-5, and 15-2. The Set-Ups downed the K-25 Hawks in game one 15-13, and in game three 15-6. The Hawks took games two and four 16-14 and 17-15.

Meanwhile on Court B, the K-25 Gashouse Gang galloped over the Boomerangs for four games, 15-6, 15-4, 15-4 and 15-8. The Ecobums blanked the Blacksmiths 15-5, 15-4, 15-10 and 15-10. The Pack put the Commodores from Beta 4 down 15-0, 15-0, 15-1 and 15-0.

League standings follow:

Team	W	L
Ecobums, ORNL	4	0
The Pack, ORNL	4	0
K-25 Gashouse Gang	4	0
Beavers, Y-12	4	0
Set-Ups, ORNL	2	2
Old Men, ORNL	2	2
Eagles, Y-12	2	2
Blacksmiths, ORNL	0	4
Beta 4 Commodores, Y-12	0	4
Boomerangs, ORNL	0	4
Bombers, ORNL	0	4
Y-12 Old Men	0	0

Better arrive late—than never.

Hi-Jackers Inch Up At Starlite

The Hi-Jackers slipped two points by the Wildcats in the Carbide Starlite Bowling League last week to stay aloft in the standings. The Splitters took the full count of three from the Jaguars . . . as the Dynapaths did the Has Beens in and the Thunderbirds galloped past the Woodpeckers, both for two.

Howard Crane, Hi-Jackers, rolled high singles of 216 scratch, 241 handicap. Del Duca, Dynapaths, rolled a sizzling 581 scratch series, and Lee Jackson, Wildcats, rolled a 644 handicap series.

The Hi-Jackers hit high in scratch rolling, singles of 882, series of 2511. The Dynapaths did high handicap singles . . . and the Has Beens got in there with high handicap series of 2864.

League standings follow:

Team	W	L
Hi-Jackers	17	4
Woodpeckers	15	6
Splitters	14	7
Has Beens	10	11
Dynapaths	10	11
Thunderbirds	9	12
Wildcats	6	15
Jaguards	3	18

EXERCISING THE MIND

'When I feel like exercising, I just lie down until the feeling goes away.' Robert M. Hutchins, educator.

Christmas Party Application Appears For Last Time In This Week's Paper

For the final time the coupon application for the Carbide Kids' Christmas parties appear in this issue of the Bulletin.

Tickets are going fast, so it is advised that applications be submitted without delay.

As stated, the Naughton bear act will perform at the 8:30 a.m., 12:30 and 4:30 p.m. parties. The Seamon's Chimps will delight all at 10:30 a.m., 2:30 and 6:30 p.m.

(What is the first time to get exhausted? Always it has been the 10:30 a.m. party, and it looks like this year will be no exception.)

Santa will be there to take lists and requests from youngsters. Favors will also be given at the doors when the kids leave.

Don't disappoint that youngster for sure . . . get your ticket request in. Time's flying!

Application for Tickets to Carbide Christmas Parties

FOR CHILDREN OF Y-12 EMPLOYEES (Ages 2-10)

TUESDAY, DECEMBER 23

Employee's Name _____ Badge No. _____

Home Address _____

(PLEASE PRINT—STREET ADDRESS, RFD, CITY, & ZIP CODE)

Number of Tickets Needed for Children _____

Number of Tickets Needed for Parents _____

— CHECK TIMES PREFERRED —

TUESDAY, December 23 ONLY 8:30 A.M. _____

12:30 P.M. _____ 2:30 P.M. _____ 4:30 P.M. _____ 6:30 P.M. _____

Please check first, second, third, fourth, fifth, and sixth choice (write in space "1", "2", "3", "4", "5", or "6") as only a limited number of tickets can and will be issued for each party. If six choices are not listed and tickets are not available for the time or times you desire, tickets sent to you will be nearest the time requested. Return this form, properly filled in, IMMEDIATELY, to the Y-12 Recreation Office, Building 9711-5, not later than December 17. The required number of tickets will then be mailed to parents at their HOME ADDRESS.



AND IN THIS CORNER are the great chimps . . . the Seamon's Chimps, set for Christmas entertainment at the kids' Christmas parties, set for Tuesday, December 23, at the Oak Ridge High School. The chimps will alternate with a bear act during the six parties. A coupon is included in this issue of the Bulletin for tickets to the big event.