

## Carbide Executive Views Past Quarter Earnings, Sales

In a talk before The Investment Analysts Society of Chicago, William S. Sneath, vice president and chief financial officer of Union Carbide, said that the corporation's sales for the third quarter are expected to be higher than a year ago, and that there are some indications of improvement in the high start-up costs and pricing problems that had an adverse effect on earnings in the first half of this year.

Commenting on the outlook for the third quarter, Sneath said that although complete worldwide figures are not yet available, based on those received so far, third-quarter sales should be about \$670 million. This would represent a gain of about five per cent over the third quarter of 1967. As for earnings, he said, "Our best guess is that they may be a little less than the 66 cents a share we earned in each of the first two quarters of 1968. The third-quarter figure for 1967 was 61 cents a share."

As far as the remainder of 1968 is concerned, Sneath said, "It will be difficult to equal last year's net earnings of \$2.82 a share, and the odds at this time are that we will not do so." It was pointed out that current estimates do not take into account a write-off of about 10 cents a share resulting from a decision announced in August to discontinue certain unprofitable manganese mining operations in Guyana.

With respect to 1969, Sneath said that as far as the general economy is concerned, the corporation is taking a rather cautious view. However, he said that preliminary sales forecasts made by Union Carbide's operating divisions indicate that the corporation might achieve a sales gain of somewhat more than five per cent. He added that some margin improvement is expected next year. "Therefore," he stated, "if sales expectations are realized, we should get a more than proportionate increase in earnings."

As an example of the magnitude of Union Carbide's pricing problems, Sneath mentioned that the reduction in the selling price of low-density polyethylene in the United States was responsible for an earnings decline of close to 10 cents a share in the first half of 1968. Union Carbide produces domestically about three-quarters of a billion pounds of this product per year. He added that overseas the price reduction had an even greater effect—costing between 10 and 15 cents a share.

Referring to the problem of high plant costs, and other charges related to the very heavy con-

Continued on Page 4

## Credit Union Strikes \$750 Loan Ceiling

Some significant policy changes have been made by the Y-12 Employees Federal Credit Union. In their September meeting, the board of directors announced the liberalization of lending regulations reflecting the changes in the law enacted by the U.S. Congress in late Summer.

Instead of the previous limit of \$750 for signature loans, the amount available for such loans will now be determined on individual bases . . . according to the applicant's length of company service and his monthly earnings. The maximum repayment period for signature loans remains at five years or less, depending on the amount of the loan.

Regulations for loans secured by depreciating consumer products (cars, boats, appliances, etc.) remain unchanged. Loans secured by real estate, insurance, or other non-depreciating collateral may now be repaid over a longer period of time than five years, depending on the amount of the loan.

The Personal Service Loan, which gives members "Instant" loan service remains unchanged.

In addition to the above changes, the board provided that employees who transfer to Y-12 (not on loan) from another Oak Ridge Union Carbide facility may transfer their entire previous shareholdings to the Y-12 Credit Union in a lump sum, if he is required to leave the membership of his previous credit union. This transfer must be made within 365 days of the personnel transfer, and may be made only by presentation to the Y-12 Credit Union of the

Continued on Page 4

## IEEE's Meeting Tomorrow At 7:30

The Oak Ridge Section of the Institute of Electrical and Electronics Engineers meets tomorrow, Thursday, October 10, at 7:30 p.m. The meeting will be held in the Green Room of the Ridge Recreation Hall.

Paul Haubenreich, head of MSRE Operations, Reactor Division, Oak Ridge National Laboratory, will be the speaker. His subject is "The New Developments with the Molten Salt Reactor."

Haubenreich is a native of Decherd, Tennessee. He received his BS and MS degree in mechanical engineering from the University of Tennessee, and has been at ORNL since 1951 where he worked in the design, development, and operation of the HRE-1 and HRE-2 Aqueous Reactors. He was responsible for the planning and analysis of the experiment and operation of HRE-2, and is now head of the MSRE Operations Department.

## Flash!

Y-12 reached 38 per cent of its goal before it ever got started in the current United Fund drive! A total of \$33,837 was already pledged by unchanged donations . . . left from last year's drive. With this base already to go on . . . the goal is only 62 per cent away!

Others fare thusly:

ORGDP	27%	\$ 9,320
ORNL	13%	11,676
Staff	34%	5,173

The overall contributions thus pledged from UCC-ND total \$70,006 which includes the corporate gift.

Y-12's attainable goal is set at \$90,000. Let's go, team.

## TAT II Program Started With 300 New Applicants

Some 300 unemployed, underemployed and otherwise disadvantaged persons will be trained for skilled jobs in modern industry at Atomic Energy Commission facilities here, through a new Federal inter-agency agreement.

The new program began October 1 and will run for one year. It follows a successful two-year experimental program, called the Training and Technology (TAT) Project, which began in May 1966 at Y-12.

Training and Technology Project, Phase II, will cost an estimated \$973,000, and will be supported jointly by the Atomic Energy Commission and the U. S. Department of Labor in cooperation with the U. S. Office of Education through interagency agreements under the Manpower Training and Development Act.

Graduates from this training group are expected to be able to satisfy some of the requirements for increased employment created by the program expansion in Y-12.

Trainees will spend an average of seven months in the program, designed to provide shop and laboratory training in one of six areas — electronics, welding, mechanical operations and fabrication, machining, physical testing and laboratory technology.

### Successful Demonstration

Activities proposed under TAT II are based on the experience and findings of the original TAT Project which has successfully demonstrated that disadvantaged persons, including minorities and the underemployed, can be trained in an industrial setting for entry level jobs in modern industry, where they will be able to oper-

ate sophisticated precision equipment.

The first of the participants were recruited during the summer months from the local area in cooperation with the Tennessee Department of Employment Security, which along with the Tennessee Division of Vocational-Technical Education will take part in overall coordination and review of the program. The individuals were selected because they lack specialized training to qualify for employment in skilled and technical areas. It is expected that of the approximately 300 participants, a substantial number will be from minority groups.

Other cooperating organizations locally and in Chattanooga include the Community Action Programs, Neighborhood Youth Corps and the Tennessee Valley Authority. In addition, an advisory committee for the project includes representatives of organized labor, educational institutions, local government and industry.

TAT II is administered by Oak Ridge Associated Universities, a prime contractor to the AEC, Wendell H. Russell, ORAU, and Y-12er J. Leo Waters, are directors of the project.

### Y-12ers Involved

The AEC's share of support for the training program will total \$472,000. Union Carbide Corporation, Nuclear Division, which operates Y-12 for the AEC, will provide an experienced group of engineers, industrial supervisors, technicians and skilled craftsmen to serve as the training staff.

ORAU will supplement the direct shop instruction for trainees under the program with individual counseling and extensive classroom and directed study in trade-related industrial mathematics, communications and science. Emphasis will be on tailoring course study to the individual's aptitudes and assisting him in realizing his highest job potential.

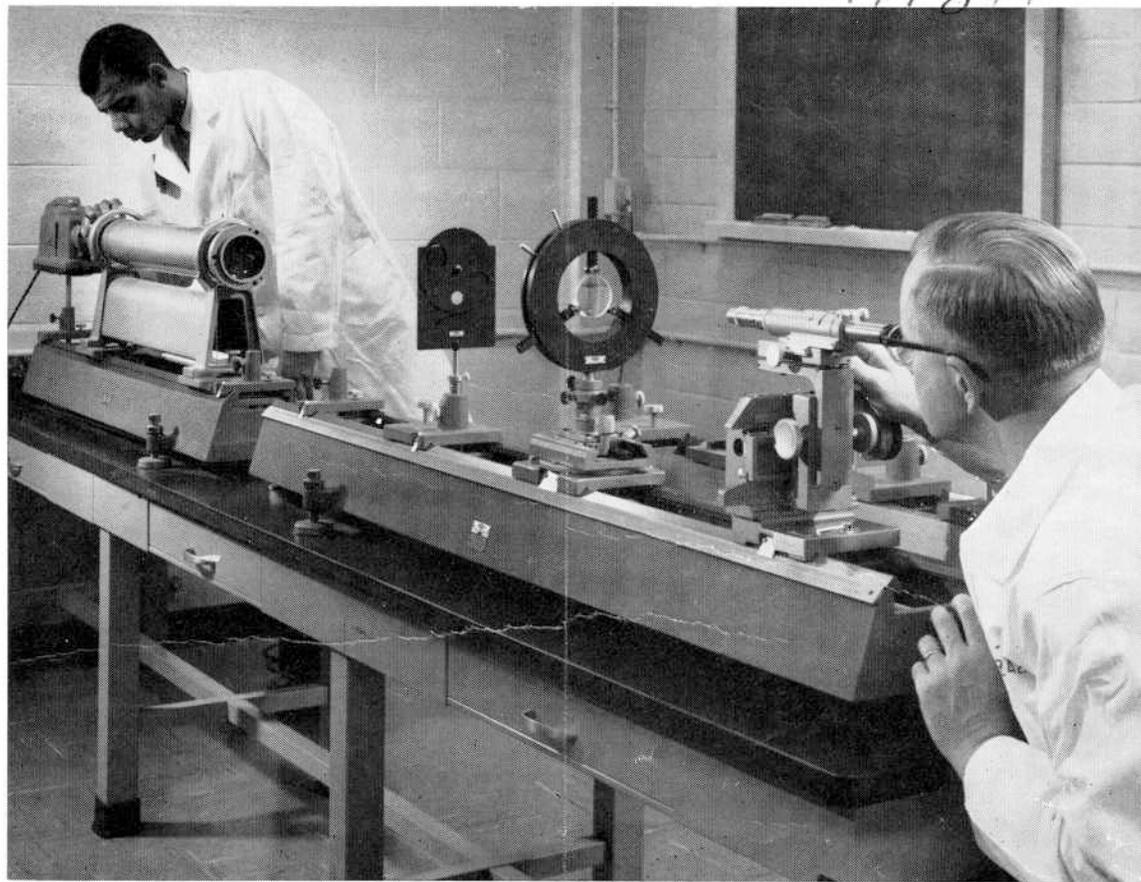
In addition to the job opportunities that will become available with Y-12, the project staff will also help trainees to find jobs with other interested industrial employers, including those companies which have hired graduates from the original TAT program.

Placement of graduates in jobs or at other training institutions has been essentially 100 per cent in the two-year experimental program. Beginning salaries for those entering the work force have averaged approximately \$6,000 per year. The experimental program graduated nearly 525 persons at its completion this summer.

## Physics' Baird Speaker At Seminar Tomorrow

J. K. Baird, ORNL Physics Division, will speak on "Magnetic Resonance and the Neutron Electron Dipole Moment," at this week's Physics Division seminar.

The seminar is set for tomorrow, Thursday, October 10, at 3:15 p.m. in the East Auditorium of ORNL's 4500 building.



IT'S CALLED AN OPTICAL BREADBOARD . . . and is used to inspect a lens for such properties as focal length, radius of curvature, astigmatism and spherical and chromatic aberrations. Jerry L. Pate, Physical Testing; and Richard E. Sladky, Laboratory Development, experiment with Development's Optical Breadboard.

## SAFETY SCOREBOARD

The Y-12 Plant Has Operated  
**198 Days Or**  
**5,956,000 Man-Hours**  
 (Unofficial Estimate)  
**Through October 6**  
 Without A Disabling Injury  
**SAFETY AT HOME,**  
**AT WORK, AT PLAY**

125579

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'GENERAL STAFF' BOASTS MANY Certified Professional Secretaries, seen above with their bosses. In the left photo Marigrace Kirstowsky, CPS, appears with Dr. C. E. Larson, president of the Nuclear Division; in the center photo Barbara Stonecipher, CPS, takes a letter

from K. W. Bahler, administrative assistant to the president of the Nuclear Division; and in the right photograph, Mary Yaggi is with her boss, P. C. Fourney, manager of Industrial Relations for the Nuclear Division. There are 22 CPSs currently employed by UCC-

ND. Union Carbide Corporation boasts more Certified Professional Secretaries than any other major U. S. corporation. The local chapter of the National Secretaries Association promotes always the secretary upgrading her profession.

The SECRETARY

Nuclear Division Secretaries Subject For NSA Magazine

If there are some familiar faces in this month's SECRETARY . . . there's a good reason!

In a four-page spread in the official magazine of the National Secretaries Association, there is featured a long story on "Union Carbide Nuclear: The CPS Banner Company!" Shown with their bosses are 22 UCC-ND secretaries who have attained the proud title of Certified Professional Secretary.

Barbara Lyon, who wrote the article, points out that over 15 percent of Tennessee's total of 140 CPSs are employed here by the three installations. In addition, the article points out, 12 candidates were tutored and drilled this year by local CPSs in preparation for the spring examination.

"Why so many at Carbide? When this question is posed to the women who have gained this achievement, the answers, varied as they may seem, do have one common implication: inspiration," SECRETARY states.

There follows a brief historical run-down of the three installations . . . Y-12, Oak Ridge Gaseous Diffusion Plant and the Oak Ridge National Laboratory.

"Inspiration comes from many other quarters in Oak Ridge," points out Miss Lyon. "Pride in the sheer number of CPSs, for one thing, gives impetus to the proliferation. For everyone is acutely aware of the local record."

"UCC-ND President C. E. Lar-

son said recently in a letter he sent to Carbide's Oak Ridge certificate holders:

" . . . Through the years, and especially while in Oak Ridge, I have followed the CPS program with interest. I am aware that Union Carbide boasts of a larger number of Certified Professional Secretaries than any other major United States company — a distinction gained no doubt through the achievement of Oak Ridge secretaries. . . . I feel very strongly that every girl who has achieved this professional milestone is a credit and an inspiration to her employer, her community, and her fellow secretaries. . . ."

Some of the peculiarities of being a secretary in Oak Ridge are detailed by the story. "What does it mean to the secretary who works in Oak Ridge? Principally, it means her job is characterized by at least two features which her sisters in the business world may not be so likely to encounter: First of all, she is working with materials which she will probably never be able to understand fully. Her only hope, in most cases, is to become familiar with the language and accept the fact that certain words — words like hadron, quasar, quark, hastelloy, Soller slits, fit in some contexts and not in others. The same goes for the technical symbols. Any secretary who has typed technical reports knows that it is common for an office which performs this function to have as many as four boxes of special key attachments (36 to a box) for her typewriter, as well as several trays of interchangeable keys, just for the formulas. Some secretaries at Oak Ridge are encouraged, moreover, to take courses in Fortran or another of the languages in which many communicate with the giant computers."

The Certified Professional Secretary program was created to elevate the secretarial profession. An annual CPS examination is administered at test centers throughout the United States, Canada, and Puerto Rico in early May. Areas covered in the examination include: secretarial accounting, business law, business administration, economics, human relations, secretarial skills and secretarial procedures. The ex-



MORE CPSs ARE FEATURED in the SECRETARY article. At left, Mabel Tyer greets her boss, H. G. P. Snyder, superintendent of Industrial Relations for Y-12; and Cora McAfee is seen with her boss T. A. Lane, former Industrial Relations head who recently retired from Carbide. Certifying as a CPS means passing a difficult two-day examination testing your skills and knowledge of the art of secretaryship.

Special Statistics Seminar Set Today At ORNL

Professor N. R. Draper, University of Wisconsin, will speak on "Examining Residuals in Regression Analysis" in the East Auditorium of ORNL's 4500 building today, October 9, at 9:30 a.m.

Professor Draper, who is chairman of the department of statistics at Wisconsin, is presently on leave at Imperial College, London. He studied mathematics at Cambridge University and received his doctorate at the University of North Carolina in 1968. Among his many publications is the text "Applied Regression Analysis," of which he is co-author.

All personnel who are interested in the application of regression analysis are encouraged to attend Dr. Draper's lecture.

amination is open to any secretary who meets the requirements set out by the CPS Institute. Membership in NSA is not a prerequisite, the local chapter points out. Anyone employed in the secretarial field is eligible to participate in the examinations.

Featured in the SECRETARY article are five secretaries working in the Y-12 area: Marigrace Kirstowsky, Barbara Stonecipher, Mary Yaggi, and Cora McAfee, all of the administrative general staff, and Mabel Tyer, secretary to H. G. P. Snyder, superintendent of Industrial Relations.

The other 17 secretaries are from ORNL and ORGDP.

Pictures of the bosses also appear with their respective secretaries.

'Incredible Voyage' Sunday Allows Views Never-Before-Seen-By-Man!!!

"The 21st Century" will embark on "An Incredible Voyage" into the living structures of the human body through cold light and fiber optic endoscopy Sunday, October 13, at 6 p.m., EDT, in color on the CBS Television Network. The program is aired in this area over Channel 10, WBIR-TV.

New illumination techniques and the use of fiber optics, which enables light to be passed around corners, will reveal through a movie camera the most inaccessible interiors of the human body.

Walter Cronkite, principal reporter for the series which is sponsored in the public interest by Union Carbide Corporation, observes:

"Now this mysterious, almost never glimpsed universe of looming shapes and weird colors can be seen in a journey unlike any that man has ever made, an odyssey beyond even the imagination of a Homer."

The endoscope is essentially a viewing system packaged in a long cylinder of surgical steel. For illumination, cold light was developed to protect sensitive tissues from heat by passing the rays through a quartz rod. The addition of the new tool of fiber optics permits light to bend around corners, illuminating new areas unreachable by ordinary light.

Inserted through natural openings or a small incision, "the endoscope enables the doctor to see as never before—and like Alice to shrink and enter a Wonderland that not even Lewis Carroll could create," Cronkite says.

In "The 21st Century" episode

a movie camera becomes a doctor's instrument as the endoscope explores some of the basic systems that comprise the human body. They include: the respiratory, nervous, circulatory, muscular-skeletal and reproductive system.

The combination of cold light endoscopy and fibre optics will enable the twenty-first century physician to perform internal examinations of the healthy or diseased organs with a minimum of pain or disturbance to the patient.

Additionally, the physician, by placing a TV camera at the eyepiece of the endoscope will be capable of putting his study on "live" closed circuit television for medical group consultation.

"An Incredible Voyage" on the "Twenty-First Century, Sunday, at 6 p.m.

Technical's Safety Record Y-12's Best

Employees in Technical Services have worked 7,567,091 man-hours without a disabling injury! This is the best performance on record for a division in Y-12, surpassing that of the Fabrication Division, which had a period of 6,985,577 man-hours through October, 1959. All members of Technical Services are to be commended for their safety awareness and effort which make this outstanding achievement possible.

To save your life you can't beat safety.

The Bulletin

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



NUCLEAR DIVISION

JAMES A. YOUNG Editor



American Association Industrial Editors

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## Rounders-Big 5 Tie In C Race

The Rounders and Big Five are now tied for the C Bowling lead after last week's action. The only big win of the night went to the Badgers by the Instrument Engineers by four points.

Taking three were the Rounders 'round the Invalids, the Rollmasters by the Royal Flush . . . and the Fireballs by the Sunflowers for three and one-half.

The Big Five and Jokers Five shared two points.

J. E. Morgan, Rounders, showed some fancy alley work with a 224 scratch, 247 handicap game . . . and series of 591, 660.

The Rounders were best in scratch counting . . . 870 singles, 2463 series . . . while the Fireballs were best on handicap, singles of 1029, series of 2926.

League standings follow:

Team	W	L
Rounders	12	4
Big Five	12	4
Rollmasters	11	5
Badgers	11	5
Jokers Five	10	6
Royal Flush	10	6
Invalids	8	8
HiLifers	7	9
Parbusters	4	12
Instrument Engineers	4	12
Fireballs	3½	12½
Sunflowers	3½	12½

## Recreation



Sunday, October 13

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

Monday, October 14

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

TABLE TENNIS: 7 p.m. Oak Ridge Wildcats' Den.

Tuesday, October 15

PHYSICAL FITNESS (For Men) 7:30 p.m. Oak Ridge High School Gymnasium.

PISTOL LEAGUE: 6:15 p.m. Oak Ridge Sportsmen's Association.

Wednesday, October 16

22 CALIBRE RIFLE LEAGUE: 7 p.m. Anderson Country Gun Club, Clinton.

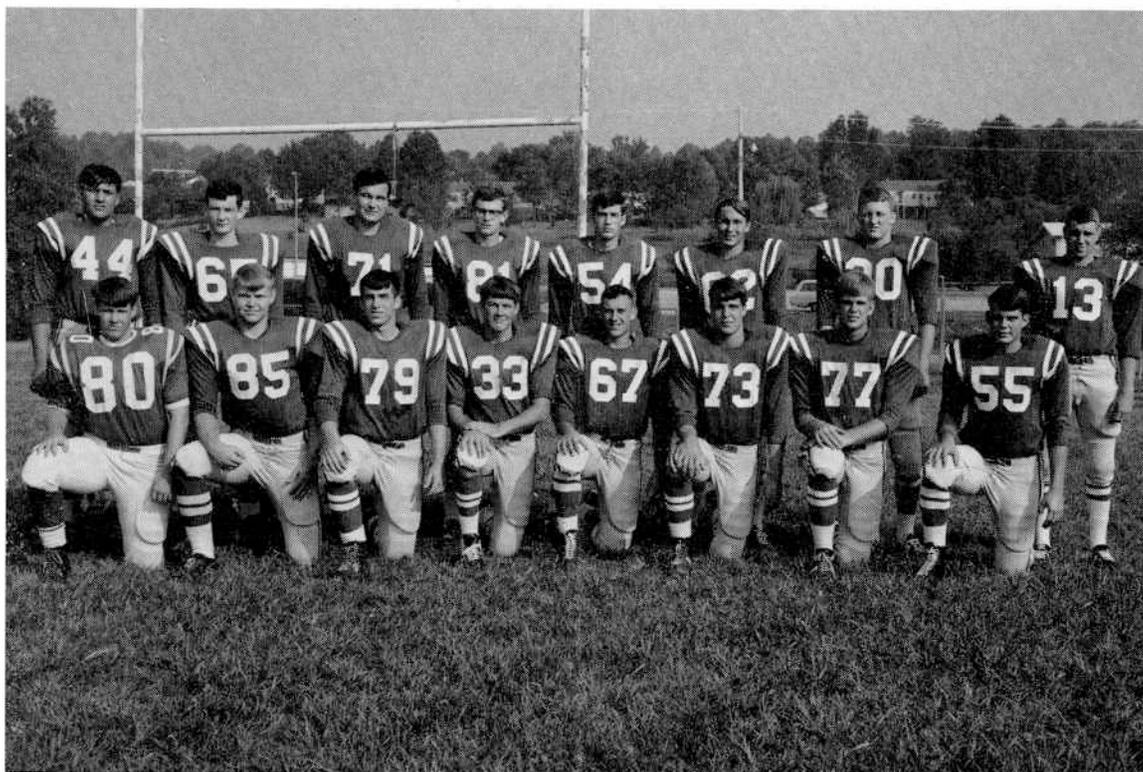
BOWLING: 8 p.m. Mixed League, 5:45 p.m. Ark Lanes.

Thursday, October 17

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

### WORTHLESS DICTIONARY

A 1901 dictionary listed uranium as "a worthless metal, not found in the U.S."



Y-12'S CONTRIBUTION TO THE OAK RIDGE WILDCAT team is seen above at a hot Fall practice session. Kneeling in front, from left, are Kim Sisson 20 . . . son of W. D. Sisson; Tommy Thompson 85, son of Mrs. J. C. Thompson; Chip Murphy 79, son of L. T. Murphy; Mike Ricks 33, son of G. R. Hicks; Jerry Jenkins 67, son of L. T. Murphy; Peter Peters 73, son of L. C. Peters; David Shaffer 77, son of James H. Shaffer; Larry Dickens 55, son of the late Milt Dickens. In the rear are Gerald Scott 44, son of Elbert Scott; Mack Smith 65, son of A. M. Smith; Larry Janes 71, son of R. H. Jones; Sam Niemeyer 81, son of C. C. Niemeyer; Larry Hogg 54, son of I. B. Hogg; Pat Rader 82, son of D. H. Rader; Eddie Hickman 30, son of E. E. Hickman; and Brad Holzknicht 13, son of Jay Holzknicht.

## Turkey Takers In Shoot Named

A heap of Y-12ers has already stashed away big turkeys for Thanksgiving and Christmas, or just one of those long Sunday dinners that we all love. Now, about 36 more birds are in deep-freeze for employee's enjoyment.

The big E, F, G, H and J shift turkey shoot Saturday, September 28, brought out about 200 folks.

Double winners were R. L. Samples, J. H. Worthington, J. M. Guttery, R. L. Gouldy, Eugene Clowers, Fred Guttery, C. W. O'Dell and F. C. Stoetzel.

Single winners were G. W. Linkous, W. R. Jago, R. L. Smith, N. E. Hoffman, C. Jeffers, W. A. Less, W. L. Coggins Jr., W. G. McGregor, L. P. Stephens, A. J. Gladson, C. R. Anderson, W. H. Bonney, R. A. Pratt, D. McMurray, L. M. Hayes, C. A. Kelly, H. Baker, D. C. Ferrell, and R. B. Thompson.

(Now everybody knows where to go to beg a turkey dinner!)

## Alford Fires High In Pistol League

Y-12er Dave Alford took top honors in handicap firing in the All Carbide 22 pistol league for summer firings. He was followed by J. E. Brewer, K-25, and G. R. Wilson, X-10, came in third. Their scores were 289.839, 288.862, and 287.538 consecutively.

Scratch honors were garnered by X-10ers as D. R. Sears' 283.900; E. B. Richardson, 278.250, and W. Zobel, 271.167 were the highs.

A minimum of eight firings was required to be eligible for awards. Those firing eight or more:

Firer	Scratch Score	H-Cap Score
D. Alford, Y-12	271.444	289.839
J. E. Attril, X-10	192.111	285.571
C. Bamberger, X-10	223.167	285.760
J. E. Brewer, X-10	274.833	288.029
T. Burklow, Y-12	223.583	287.029
B. S. Denton, Y-12	231.700	286.550
W. B. Dodson, K-25	247.000	284.560
A. Gronstrom, X-10	98.375	287.316
C. E. Harding, X-10	226.833	287.456
D. Kiplingers, X-10	240.500	286.117
L. C. Knighten, K-25	211.500	285.700
W. A. Less, Y-12	249.800	285.565
N. G. McRae, K-25	156.364	285.467
J. M. Miller, X-10	269.417	286.638
V. C. Raaen, X-10	267.417	286.777
E. B. Richardson, X-10	278.250	287.248
D. R. Sears, X-10	283.900	286.877
T. C. Swindell, Y-12	245.500	286.500
R. H. Ward, X-10	254.333	286.508
G. R. Wilson, X-10	173.667	287.538
W. Zobel, X-10	271.167	287.598

## Case-Miller Crowned King Of HossShoes

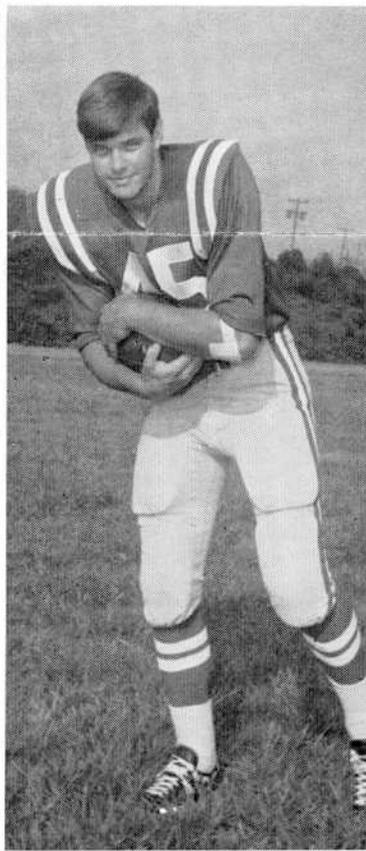
Two ORNL teams dominated the Horseshoe League . . . as a pitch-off last week determined the winners.

N. O. Case and W. W. Miller, winners of the league's second half, downed the R. S. Durham-Levi Bailey team. (The D-B team won the league's first half.)

Case-Miller took the Durham-Bailey team 6-3.

### UNITED GIVING

"Each of us should pause for a moment and seriously consider our position in life and the real hardships suffered by others and be thankful that we are 'on the giving end.' By our contributions through the convenient payroll deduction plan we are able to provide community services for our own families as well as for those who are less fortunate than we are."



ROY RHEA GOT LOST in the scramble on photographer's day recently at the Oak Ridge High School, and did not get in the Y-12 photograph. He is the son of O. J. Rhea, General Machine Shop. Roy weighs 160 and is a senior tailback with the Wildcats.

## Girls' P.T. Classes To Begin November 4

Physical Fitness classes for females has been discontinued due to lack of interest. They will be resumed, however, Monday, November 4, in the Girls' Gymnasium at the Oak Ridge High School.

A minimum of 20 females must be present if the classes are to continue through the winter. A trained instructor is on hand for the gymnastics.

Loose talk is poison.

## Eagles Maintain Thin Classic Lead

The Eagles kept a thin margin lead in the Classic Bowling fight last week, after a three-point win over the Eightballs.

Winning four were two teams . . . the Markers by the Splinters, and the All Stars over the Screwballs.

Posting three were the Playboys by the Has Beens, the Bumpers by the Rippers, and the Swingsters by the Tigers. The Cubs won over the Smelters by the same score.

Sharing two were the Rebels and Pinbusters.

Harvey Hankins, Cubs, put a 240 scratch, 270 handicap single down . . . and Bill Ladd, Swingsters, rolled a 627 scratch series. The Tigers' Bill Freels rolled a 691 handicap series.

The Swingsters were tops in all departments . . . singles of 980 scratch, 1090 handicap . . . series of 2624 scratch, 2954 handicap.

League standings follow:

Team	W	L
Eagles	14	6
Markers	13	7
Rebels	12	8
Playboys	12	8
Bumpers	12	8
Has Beens	11	9
Smelters	10	10
Tigers	10	10
All Stars	10	10
Splinters	9	11
Rippers	9	11
Swingsters	9	11
Screwballs	8	12
Eightballs	8	12
Pinbusters	7	13
Cubs	6	14

## Teams Thrashed In Mixed Alleys

Half the teams in the Mixed Bowling League took heavy trouncings last week . . . as three fell by four points . . . one by three. The Alley Cats rolled over the Rollers, the Mustangs flew by the McSprays and the Goofers gained four from the Hits & Misses.

Taking three were the Roses 'N Thorns over the Twisters.

Wally Wieclawek, Goofers, gained men's honors in singles . . . 198 scratch, 229 handicap. Ernest Ely, Mustangs, and C. R. Lively, Rollers, rolled a 539 scratch series. Lively's 629 was tied with Wieclawek's.

Ethel Spray took all female honors . . . singles of 197 scratch, 235 handicap . . . series of 484, 598.

The Goofers swept the boards in team honors . . . singles of 662 scratch, 816 handicap . . . series of 1829, 2291.

League standings follow:

Team	W	L
Alley Cats	16	5
Mustangs	14	6
Roses 'N Thorns	12	8
Goofers	12	8
Twisters	8	12
Hits & Misses	7½	12½
McSprays	7½	12½
Rollers	3	17



Ride wanted from Route 2 (Old 61 Harriman Highway) Oliver Springs, to Biology Portal, straight day. James Rather, plant phone 3-7628, home phone Oliver Springs 435-2594.

Ride wanted from Claxton area, to Central Portal, straight day. Sharon Clapp, plant phone 3-7133.

### CHICAGO FIRE

The great Chicago fire came October 9, 1871. It killed 250 persons and destroyed 17,430 buildings at a cost of \$168,000,000.



RONNIE SLIGER, SON OF L. T. SLIGER, General Machine Shop, is advanced to a Hospitalman 3rd class. He is congratulated above as he received his stripes at the Naval Hospital on Guam. Ronnie plans to enter medical school in North Carolina when he is discharged next June. A graduate of Central High School, young Sliger has been in the Navy since his graduation in June of 1966.

*Palmer*



**CAN AN OAK RIDGE COUPLE FIND HAPPINESS AFTER 30?** (30 What you might ask!) Can Milt Carey win an academy award? Do you have reservations for the Oak Ridge Playhouse Annual Dance? This gala evening, replete with orchestra, continuous buffet and 'burlesque' comprised of favorites of the 'local talent crowd', including Milt Carey, Critical Path and Regular Production Scheduling, above, with Martha Bishop, scheduled for Friday, October 11, from 9 p.m. to 1 a.m. at the Oak Ridge Country Club. Reservations may be made through Mesdames Wilton Osborn, Paul Ebert, or William Mixon.



'October's bright blue' finds nine more Y-12ers becoming Old-Timers with Union Carbide Corporation . . . others observing important dates, also. Congratulations.

**25 YEARS**

- Katie Cole**, Buildings Services Department, October 9.
- Uriah L. Alspaugh**, Area Five Maintenance, October 11.
- Billy Cobb**, Electrical Department, October 11.
- Clell L. Cotter**, Guard Department, October 11.
- Willis W. Jones**, Buildings, Grounds and Maintenance Shops, October 11.
- Lennie L. Messamore**, Chemical Services, October 11.
- Ernest Zurcher**, Superintendents Division, October 12.
- Helen J. McNew**, Engineering Division, October 13.
- Earl R. Easterday**, General Expediting and Auxiliary Services, October 14.

**15 YEARS**

- Frederick M. Harvey**, Utilities Administration, October 9.
- Milton Settle**, Research Services, October 10.
- Lester J. Adkisson**, Electrical Department, October 12.
- Hubert J. Cole**, Machine Maintenance, October 12.
- Coy V. Copeland**, Beta Two Forming, October 12.
- James A. Davis**, Stores Department, October 12.
- Alfred R. McConkey**, Accounting and Budget, October 12.
- William H. Renfro**, Dimensional Inspection, October 12.
- William E. Thomas**, Research Services, October 12.
- Jimmie J. Turner**, Environmental Control Engineering, October 12.
- Reece Robbins**, Assembly Operations, October 14.
- Thomas W. Compton**, General Shop Job Liaison, October 15.

**10 YEARS**

- John S. Cobb**, Engineering Mechanics, October 13.
- Wayne M. Silver**, Material Control, October 13.
- Apologies to **Ersey O. Lamb**, General Field Shops. He celebrated his 15th anniversary with Union Carbide Corporation July 29. His name was incorrectly listed in the Bulletin recently.

Two legs are better than a carload of crutches.

6-14089



**What Exactly Is 'A Needed Share?'**

What is the definition of a Needed Share in the current United Fund drive? That question has been asked several times during the past week or so.

It amounts to about one-half hour's pay per month . . . or exactly 0.52-hour. That is all the "Needed Share" comes to.

If you want to get technical and figure it out . . . get a slide rule . . . and go thudly. Multiply your monthly rate by 12 . . . divide by 52 . . . then by 40. And presto! You have your own hourly rate . . . or better still just check the "needed share" block and computers do the rest. How's that for convenience?

Barely a half hour's pay a month will not buy your cigarettes if you're an average smoker.



**O. B. WRAY, WHO RETIRED** recently from Maintenance, receives a retirement plaque for his more than 23 years of loyal service to Union Carbide Corporation. G. E. Berney, left, presents the plaque, as Clifford Holt, right, presents Wray a gift from his fellow employees. The handsome metal on wood plaque is given to each Y-12 retiree.



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NUCLEAR DIVISION  
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**Will Bailey Dies In Auto Accident**

The plant was shocked Monday when it heard of the Sunday, September 29 accident that took the life of Mr. Will Bailey Jr.

Mr. Bailey of 2243 Orange Street, Knoxville, came to Y-12 October 6, 1950, after working on a farm in Durant, Greeneville and Granada, Mississippi. He served in the U. S. Army from 1943 until 1947 in the European theatre. He was born in Durant, Mississippi, and worked with the Oak Ridge Hospital and Encrete, Inc. here before coming to Y-12.



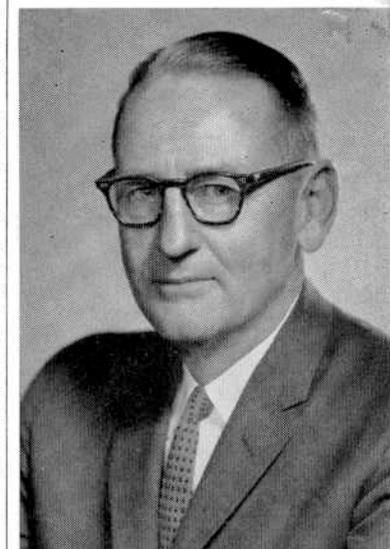
Mr. Bailey

Surviving are his father Will Bailey Sr., Durant; a daughter Deborah Bailey; and son William Earl Bailey, both of Knoxville; and son William A., Oak Ridge. Six sisters of Rockford, Illinois; and four brothers, also survive.

Funeral services were held Thursday, at the Tabernacle Baptist Church, Knoxville, with military rites following at the National Cemetery where the body was interred.

Sincere sympathy is extended the Bailey family.

**Welding Society Meet Next Week**



James E. Norcross

James E. Norcross, executive vice president of ARCOS Corporation, will be the guest speaker at the Tuesday, October 15, meeting of the Northeast Tennessee section of the American Welding Society. His subject will be "Automatic Vertical Welding—Electroslag and Electrogas."

The electroslag and electrogas processes offer outstanding economic advantages. They also produce welds of the highest quality. Both processes provide the only present single pass method for welding heavy sections, at rates equal to or faster than any other known method. Single pass vertical welds up to 20 inches in thickness have been made using the electroslag process.

Norcross is a frequent speaker at AWS section meetings throughout the country on a variety of other welding subjects, low hydrogen welding, flux cored wires, and stainless welding. He is an active member of AWS, having served on many national committees. At present, he is chairman of the Welding Journal Committee.

The meeting will be held at the Alexander Motor Inn, Oak Ridge. The technical address will be preceded by a social hour at 6:30, and dinner at 7:15 p.m. All persons who are interested in welding, both AWS members and non-members, are invited. Reservations may be made through E. N. Rogers, extension 3-5215.

**Badge Exchange Ends Tonight At 11 p.m.**

Badge swapping goes on through the 11 p.m. shift tonight, October 9.

Employees should be wearing badges with yellow bottoms. If yours has no yellow bottom, you are on last quarter's badges. The yellow bordered means of identification will serve through the winter quarter.

purchase tickets for Saturday's concert at the box office prior to the concert, or a season ticket at a great reduction.

**Earnings, Sales**

Continued from Page 1  
struction program the corporation has had under way. It is estimated that start-up difficulties at the Taft, Louisiana, petrochemicals project in one way or another reduced first-half earnings by 18 cents a share.

Sneath told analysts that Union Carbide's construction expenditures here and abroad for this year are currently estimated between \$350 and \$375 million, which is lower than estimated earlier in the year. Although the 1969 program is still being reviewed, it appears that expenditures will be below 1968. The biggest single project on the horizon is a petrochemical expansion in Puerto Rico, total investment for which will be in the area of \$200 million. Initial operation is scheduled for early 1971.

**Is Your Thing Steam Automobiles?**

The East Tennessee Division of the Modern Steam Automobile Club is being formed. The objective of this group is to develop the technology required to build a truly modern steam car. Some of the problems are the steam generator with its temperature, pressure, and feed water control; the burner; the condenser; engine design for economical fabrication as well as steam consumption; lubrication problems; startup; safety, etc. The membership will be expected to contribute talent, skill, hardware, money and work. They will receive all the technology developed, the assistance and encouragement of fellow members, and the dubious pleasure of associating with a collection of real nuts. Every technical skill is welcome — machinist, welder, engineer, scientists, etc. — mere enthusiasm and strength will qualify one also.

If this is your thing, get in touch with E. C. Hise, Building 9204-1, or E. S. Bettis, 9201-3, both in Y-12.

**URBAN POPULATION**

Two-thirds of the nation's people now live in urban areas. The other third are looking for expressway exits.

**Credit Union**

Continued from Page 1  
close-out check that was issued to the member from his previous credit union. In this way, there will be no question as to the amount that the member is eligible to transfer. The amount of the transfer will be limited, naturally, to the current Y-12 Credit Union share account limit at the time of the transfer. Presently the limit on share accounts is \$10,000 for single accounts and \$15,000 for family accounts.

The change in the Federal regulations governing federally-chartered credit unions enables Y-12 Credit Union to continue its efforts in constantly improving service to its members.

REMEMBER, the Credit Union is yours, Use It!

**Lettvin Will Present Memorial Concert Saturday**

Theodore Lettvin, world-famed pianist, will present the first concert of the regular series of the Oak Ridge Civic Music Association at the Oak Ridge High School Auditorium, Saturday, October 12 at 8:15 p.m.

Lettvin has given hundreds of concerts in the United States and abroad, and has earned critical accolades as one of America's most outstanding and exciting pianists. This concert, to include both familiar and seldom-heard works by Beethoven, Brahms, Weber, Prokofiev, and Chopin will be offered as a memorial to the pianist's deceased father-in-law Jack Rorimer, former AEC city manager of Oak Ridge.

Non ORCMA - members may