



# — Y-12 BULLETIN

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

VOL. 20 — NO. 18

OAK RIDGE, TENNESSEE

Wednesday, May 4, 1966

## Kenneth Rush Named Union Carbide Corporation President

### Records Crumble Again Is Word From Carbide's Annual Meeting

Appreciable Gains To Be Expected For 1966 Stockholders Are Told By UCC's Birny Mason Jr.

Union Carbide Corporation set a first-quarter record in sales and earnings reached a new high for any quarter, Birny Mason Jr., president, reported at the annual meeting of stockholders held last week at Hunter College. Mason stated that "Although any forecast at this time cannot adequately take into account wide swings that could result from fast-moving domestic and international events and from possible governmental actions, product margins are satisfactory in all product groups and appreciable gains are expected for the year as a whole."

Both Mason and Executive Vice President Kenneth Rush, who cited prospects for future earnings growth during his review of current operations, referred to the major construction program that the corporation has under way to alleviate what they called the principal short-term limitation to earnings growth — lack of adequate capacity to meet the high demand for many of the corporation's products. It was also pointed out that a significant portion of the capital expenditure program is being used to develop new business opportunities and to expand foreign activities.

#### Earnings Up 19 Per Cent In First Quarter Of 1966

Mason reported net income was \$61,712,000, or \$1.02 a share, setting a new record for any quarter. This was 19 per cent above the \$51,776,000 or \$.86 a share, earned in the first three months of 1965. First-quarter sales of \$530,521,000, which was 10 per cent higher than last year's first-quarter sales of \$483,780,000, establishing a record for the period.

Speaking of the strong upsurge in Union Carbide's operating results, Rush noted that in the past two years — from 1963 to 1965 — sales had increased 24 per cent and earnings 42 per cent. He said that the increase in sales of chemicals and plastics for the period was 22 per cent; industrial gases, 24 per cent; carbon products, 28 per cent; and metals, also 28 per cent. He also commented that in the past seven or eight years the corporation has encountered not only a sharp increase in both domestic and foreign competition, but also a precipitous drop in its overall price index. Yet, in the face of such changes, it has been able to maintain its earnings and, as indicated, increased them strong in the past two years.

#### Diversity And Interdependence Of Technologies Cited

Union Carbide is made up of many different businesses, stockholders were told. For example, the corporation has a billion dollar chemicals and plastics business and a \$200 million consumer products business. It is the leading industrial gas company, with over 100 producing plants, the foremost producer of carbon and graphite products, a major mining company, and the number one ferroalloy producer.

Underlying the many diverse operations of Union Carbide is an interdependence of technologies that allows businesses to build upon one another. An example of this is the corporation's electronics business, which has grown out of the technologies and product developments of several divisions — such as electrochemical technology developed in the battery business and high-temperature flame technology stemming from the gas business. Currently, Union Carbide's sales of electronic materials, components and devices are in excess of \$25 million.

#### Upgrading And Expanding Plant Capacity

Union Carbide sees three major opportunities for continued significant earnings growth. The first is through upgrading and expanding its plant capacity to improve competitive economics. The second is by selecting and exploiting the most favorable of the many new business opportunities being generated with Union Carbide, and the third is through a vigorous expansion of its foreign operations.

The huge, highly automated plants being built by the petrochemicals group were mentioned as an example of the aggressive operations improvement and plant modernization program being pursued. Among the illustrations given were the replacement of two existing plants to produce ethylene — a basic building-block chemical — which have a combined capacity of 650 million pounds per year, with one modern

Continued on Page 4

### All-Out War Set In Y-12 On Accidents

An all-out war on home accidents has been declared for Y-12ers. The complete month will be spent exploring the possibilities of reducing off-the-job accidents.

The National Safety Council has issued a home quiz . . . called Do you see it? Do you fix it? and Do you practice it?

#### Do You See It?

1. Do you look for tripping hazards — toys left around, mops and brooms, other clutter? AND PUT THEM AWAY?

2. Do you light your way AHEAD of you into rooms, up and down stairs?

3. Do you look at the label before taking ANY medicine?

4. Do you seek out fire hazards — rubbish in attic or basement, bundles of oily rags? AND CLEAR THEM OUT?

5. Do you watch for cleaning supplies, insecticides, medicines, matches, etc. left where children can get at them? AND PUT THEM AWAY?

6. Do you look to see that all window screens, guards, storm sashes, etc. are security fastened?

7. Do you see that cigarettes, matches, and so forth are REALLY OUT?

#### Do You Fix It?

1. Have you anchored small throw rugs, repaired worn carpets?

2. Are broken stairways, loose floor boards, wobbly railings PROMPTLY repaired?

3. Do you have flues, pipes and chimneys inspected regularly — and repaired?

4. Do you keep ALL electrical equipment in good repair and discard or repair worn cords?

5. Is there a SECURE AND ADEQUATE hand hold or grab bar over bath tub or shower?

6. Are all gas burners properly adjusted? FREE FROM LEAKS, pet-cocks tight?

#### Do You Practice It ?

1. Do you always use a SOLID LADDER (or step stool) instead of a makeshift, such as a pile of boxes or an unsteady chair?

2. A fairly universale rule of fire prevention authorities is: NO SMOKING IN BED! Do you always observe it?

3. Do you always disconnect electric appliances when not in use?

4. Do you always keep garage doors OPEN when running the motor inside?

5. Do you always provide adequate VENTILATION in any room where portable gas or oil heaters are used?

6. Do you always keep guns UNLOADED AND LOCKED UP?

7. Do you KEEP the yard clear of broken glass, nail-studded boards, garden tools, other litter?

The Safety Council says that if you answer four or more of the above with a "no" you're in trouble . . . if you answer more than nine in the negative . . . you'd better call an ambulance!

### UT Graduate First President Of Nuclear Division In 1947

Kenneth Rush, the Nuclear Division's first head, has been named president of Union Carbide Corporation. Birny Mason Jr., corporate president since 1958, moves up to the post of chairman of the board of directors and continues as chief executive of the corporation.

The announced changes were released last week, shortly after the corporation's annual meeting with the stockholders at Hunter College in New York.

Rush, who was born in Walla Walla, Washington, is a graduate of Doak High School, Greeneville, Tennessee, and earned an AB degree at the University of Tennessee in 1930. His LLB from the Yale Law School followed two years later. He joined Union Carbide in the law department early in 1936. Later he interrupted his service to serve at Duke Law School, Durham, North Carolina, as assistant professor of law, returning to Union Carbide in 1937.

#### Led Nuclear Division

The Nuclear Division was formed in 1947 when Union Carbide began operating the Atomic Energy Commission plants here and at Paducah. Rush was named its first president.

Rush has held executive positions with Union Carbide in various other divisions and affiliates of the corporation including Haynes Stellite Company, Union Carbide Chemicals Company, Linde Company and Union Carbide Plastics Company, as well as in a number of Canadian and foreign subsidiaries.

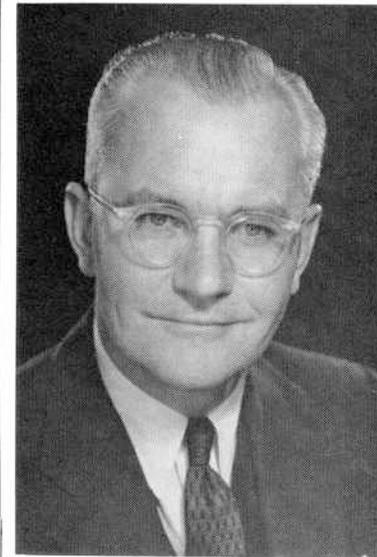
He is also a director of James Talcott, Inc.; the American Sugar Company and Bakelite Xylonite Ltd., England.

Birny Mason Jr., who succeeds More G. Gial as chairman of the board, is a native of Brownsville, Pennsylvania. He is a graduate of Cornell, and joined Union Carbide in 1932, holding various positions in research and production before being named manager of the corporation's industrial relations staff in 1952.

In 1955 he was named secretary of the corporation and the following year became president of the Union Carbide Development Company. He then became vice president of UCC and a member of the appropriations committee in 1957, executive vice president and member of the board in 1958 and in 1958 was named president of the corporation.

Kenneth Rush was named a vice president in 1948, a director in 1958 and named executive vice president in 1961. In 1965 he was appointed chairman of the capital projects committee.

Rush recently returned to his alma mater, the University of Tennessee, to deliver their commencement address. He has been a frequent visitor in Y-12 and the other two AEC installations here.



Kenneth Rush



Birny Mason Jr.

### No Accident At All For Beta-2 Dispatching!

In saluting the Beta Two Dispatching group last week for its sterling safety performance, the Bulletin did not go far enough. It was stated that the men had not sustained a lost-time accident in over a year. Well and good . . . but that wasn't enough.

What should have been said, is that the dispatchers, material handlers, etc. had no accidents of any kind! . . . either first aid, serious, lost-time, or any kind. They are naturally proud of their distinct record . . . and well they should be.

#### SAFETY SCOREBOARD

The Y-12 Plant Has Operated Five Days Or 114,000 Man-Hours Through May 1 Without A Disabling Injury  
Phone 3-7755 (Unofficial Estimate) For Daily Report On Accident-Free Hours

### J. R. McNally Jr. Is Thermonuclear Speaker

J. R. McNally Jr., Thermonuclear Division, will conduct this week's seminar on "Plasma Studies."

The seminar is set for Thursday, May 5, at 9 a.m., in the TD Conference Room, Building 9201-2.

# The Bulletin

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



NUCLEAR DIVISION

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## SNT Meet Set For Next Tuesday

The Oak Ridge Chapter of the Society for Nondestructive Testing will meet next Tuesday, May 10. The meeting is set at the Oak Ridge Marina with dinner being served at 7 p.m.

T. W. McFarlan, Magnaflux, will speak to the local chapter on the application of different automatic systems which are being used in industry today. The challenge of high speed inspections and the growing demand for a variety of readout devices will be discussed. McFarlan is the Sonic/Ultrasonics Product Manager at Magnaflux and is a mechanical engineering graduate of Bridgeport Engineering Institute. He has had 15 years experience in the ultrasonic field and promises to bring a very interesting discourse on his subject.

An invitation is extended to members of other societies and to anyone interested. The lecture begins at 8 p.m. E. L. Price, extension 3-7201, will be able to furnish additional information on the meeting.



Ride wanted or will join car pool from Clinton to East Portal, straight day. J. C. Rogers, home phone Clinton 457-2727.

Two riders wanted from Highland View section, Oak Ridge, to North Portal, straight day. H. G. Richards, plant phone 3-7696, home phone Oak Ridge 482-1760.

## IEEE Will Hear ORAU's Pollard Next Week

The Oak Ridge Section of the Institute of Electrical and Electronics Engineers is planning a dinner meeting next week. It is set for Friday, May 13, at 7:30 p.m. at the Alexander Motor Inn, Oak Ridge.

Dr. William G. Pollard, executive director of the Oak Ridge Associated Universities, will speak on "The Language of Life."

All IEEE members, wives, guests and interested parties are invited to attend. Reservations may be made through L. F. Koontz, plant telephone 3-7600, or Oak Ridge 483-4422.

## Leg Fracture Scored As Lost-Time Accident

Y-12 sustained its third lost-time accident of the year last week. On April 26 an employee in the Utilities Administration Division was injured as a piece of pipe struck his leg, resulting in a severe fracture of the leg between the knee and ankle.

The employee was taken to the Oak Ridge Hospital, where corrective surgery was performed.

The injury brought to a close the 53 period worked without a lost-time injury, for approximately 1,453,000 man-hours.

## Playhouse Tells Next Season Plays

The Oak Ridge Playhouse finishes another successful season this weekend with the three final performances of "Roman Candle" at the Playhouse in Jackson Square. Meanwhile, the Playhouse announces its 1966-67 season of plays with the membership drive now underway. Memberships may be purchased during the run of "Roman Candle" or by contacting Mrs. Dale Fisher, Membership Chairman.

The plays selected by a committee headed by Y-12er Milt Carey include "A Thurber Carnival," a review containing some of the famous humorist's funniest material; "A Case of Libel," which dramatizes Louis Nizer's account of the Westbrook Peglar-Quentin Reynolds trial; "A Man for All Seasons," a brilliant moment in history when Henry VII and Lord Chancellor found themselves in total disagreement and the latter was condemned for treason; "The Shrike," a stunner of a drama about a man's battle with his real and unreal worlds which was awarded a Pulitzer Prize; and "Absence of a Cello," a comedy about a scientist who played the cello as a hobby and is afraid to let his company know about his non-conforming habits.

A Junior Playhouse and Studio Theatre production of "A Christmas Carol" will be presented in December which will be free to all members. Further Studio presentations will be announced during the season.

Both regular and convenience card memberships will be available as well as student memberships in both categories. Memberships represent a substantial savings over Box Office prices and also provide the purchase with the choice seats and a voice in Playhouse affairs.

Our elders thought nothing of getting up at 5 a.m. We don't think much of it either.



DEB KOHLER RECENTLY ENTERTAINED her friend Heidemarie Habel, an exchange student from Germany. Deb is the daughter of Mr. and Mrs. P. B. Kohler. Her father is in Y-12's Process Maintenance.

## Kohler Daughter Entertains Exchange Student, Heidi Habel, From Germany

Deb Kohler, daughter of Mr. and Mrs. P. B. Kohler, recently enjoyed a "hands-across-the-sea" weekend. She entertained as her house guest Miss Heidemarie Habel, whose home is in Bad Segeberg, near Hamburg, Germany. Miss Habel . . . or "Hedi" as she is known by her friends . . . is in America on an International Scholarship from the American Field Service and while in Oak Ridge was a delegate to the model United Nations Assembly at the Oak Ridge High School. The American Field Service advocates an open door for understanding and friendship among other nations.

Heidi has one brother at home and her father is a cavalry officer in the West Germany Army.

Deb is a senior at Oak Ridge High School . . . and Heidi is attending Webb School in Knoxville. She is making her home this year with Mr. and Mrs. Howard Kesley, Knoxville.

The Kohlers live at 103 Marshall Circle, Oak Ridge. Kohler is in Y-12's Process Maintenance in the Maintenance Division.

And what did the teen-agers discuss during the weekend? "You name it," Kohler joked . . . "and they talked about it. Put two teen-agers together and one thing they're going to do, you can bet, is talk!"

## Another Driver Quiz Coming To TV viewers

CBS-TV will conduct another driver test Tuesday, May 24. This is not the same test that was broadcast a year ago. It is entirely new.

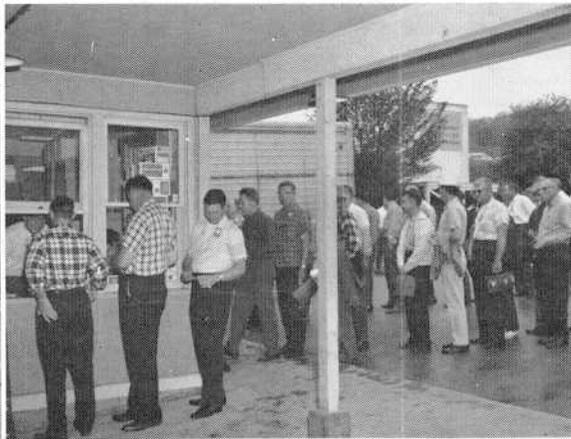
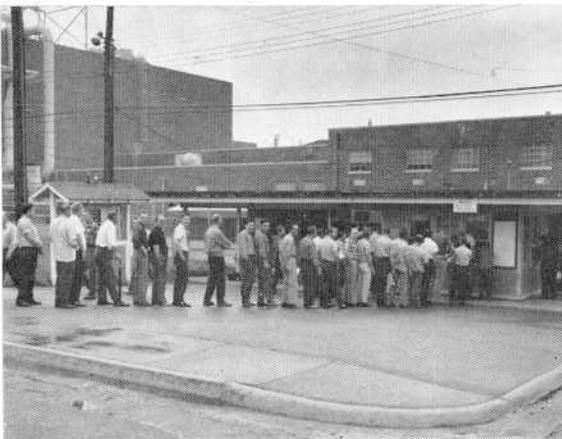
Test scoring sheets will again be made available through the Safety Department. Viewers may test themselves . . . then compare their scores with a national average to see how well they stack up against other drivers.

Channel 10, Knoxville, will air the program at 10 p.m. Tuesday, May 24.

## Sweden's Bergqvist Is Physics Seminar Guest

Ingvar Bergqvist, University of Lund, Sweden, will speak at this week's Physics Division Seminar. His subject will be "Neutron Capture Gamma-Ray Spectroscopy."

The seminar is set for Friday, May 6, at 3:15 p.m. in the East Auditorium of ORNL's 4500 building.



ABOVE AND BELOW Y-12ers flock to the portals to receive their safety awards for the cumulative periods gathered in 1965. Two no-lost time accident periods were marked in the year just ended . . . from December 2, 1964 until March 12, 1965 for a total of 4,372,621 man-hours . . . and from July 14 until October 4. The only item running short was the sleeping bag (and it's still too cool for them, anyway!).

The current lecture series, sponsored by the East Tennessee Chapter of the Health Physics Society, will continue through May. The lectures are open to the public and are presented each Thursday at 7:30 p.m. in the conference room of the ORINS Medical Division Building located on East Vance Road, Oak Ridge.

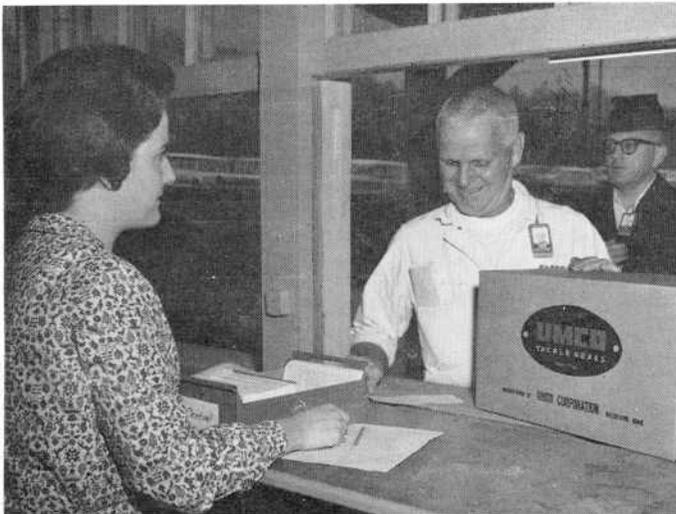
The schedule for May is:

May 5 — "Medical and Hospital Health Physics," by Pat Dalton, ORAU.

May 12 — "Laboratory and Facilities Design," T. J. Burnett, ORNL's Health Physics Division.

May 19 — "Problems of Radioactive Effluents," E. G. Struxness, ORNL's Health Physics Division.

May 26 — "External Radiation Monitoring," J. C. Hart, ORNL's Health Physics Division.



## Carl Dorr Takes Lambert Acres Golf Tournament

Carl Dorr took Y-12's first golf tournament with a four-over-par 76 at Maryville's Lambert Acres Country Club, Saturday. A host of 156 duffers showed (despite the threat of monsoons in East Tennessee) . . . as 199 had signed for the initial tournament. Three other golfers shot in the upper 70's . . . Bill Maddux, Bill Lanter and Joe Pryson.

In the first division, in scratch counting, it was Dorr, 76; Maddux, 77; Lanter, 79, and L. W. Miller, 81. Handicap shooting saw Joe Pryson in number one position with 69, W. T. Arrowood, Jim Grubb and Jim Vance all tied for second place, each with 73.

Most pars were gleaned by Bill Mee, as he took 11 of the 18. D. E. Littleton, Bill Grubb and J. D. Collins all had nine each.

### SECOND DIVISION

J. D. Robertson was scratch low with an 83; followed by Carl Cheek and George Cantrell, each with 84 . . . and Bill Dean with 86. In handicap firing it was Don Huffman, 72; H. B. Presley, Merle Emery and John Sewell, all with 73.

Gene Huskisson fired 10 pars in the number two flight; Bill Mattingly had eight.

### THIRD DIVISION

Roy Worley took flight number three, with an 83 scratch score. He was followed by Avis Collins, 88; J. D. McLenden, 91; and H. R. Mullins, J. E. Batch and Nelson Tibbatts, 93. In handicap scoring, it was W. R. Clevenger, 72; John Spears, Harry Conner and Glen Lundquist, with 74 each.

C. R. McGinnis and Harold Alvey tied for most pars, with five each.

### FOURTH DIVISION

Bill Burrell captured flight four, taking a 97 scratch total. He was followed by Hoyt Huston, 99; H. L. Bailey, 100 . . . and J. C. Bryan, 101. Handicap firing saw Harry Mays win with 68 . . . followed by Phil Breman, E. V. Hawk and Bill Thompson, all with 77.

C. R. Martin took three pars . . . J. I. McKinley, Jerry Cadden, W. L. Seavers, Tom Compton, Sam Gallman, Jim Morehead and Carl Nelson . . . all had two.

The second tournament is slated for Saturday, May 21 . . . at Wallace Hills, also in Maryville. A coupon for that tournament is included in this issue of the Bulletin.

## Recreation



### Monday, May 9

**SOFTBALL:** Beginning 6 p.m. Pinewood Field. Bat Boys vs. Naughts; Red Devils vs. Big Shops; K-25 Sports vs. Bio.

### Tuesday, May 10

**SOFTBALL:** Beginning 6 p.m. Pinewood Field. Falcons vs. Clowns; Isotope Reactor vs. Fireguards; Peanuts vs. X-10 Mets.

**PHYSICAL FITNESS:** 7:30 p.m., Oak Ridge High School Gymnasium.

### Wednesday, May 11

**IN-DOOR RIFLE LEAGUE:** 7 p.m. Anderson County Gun Club.

### Thursday, May 12

**SOFTBALL:** Beginning 6 p.m. Pinewood Field. Sluggers vs. Braves; Eagles vs. K-25 Mets; Ecobums vs. Health Physics.

## Huff Paces Rifles As Team Lags

Jack Huff again led Y-12ers in the 22 Calibre Rifle League recently, by firing a 283 scratch total. He was followed by Dave DeWalt, 282, and Bert Searles, 280. DeWalt's handicap score of 288.187 was number one, Searles' 288.187 was second; and H. D. Whitehead came in third with 287.658.

Team scoring in scratch firing was: Y-12, 1401; X-10, 1443; Independents, 1435. In handicap firing: Y-12, 1432.486; X-10, 1456.569; Independents, 1447.967. X-10 gained six points; Independents four . . . and Y-12 two.

League standings follow:

Team	Points
Independents	34
X-10	32
Y-12	18

## Soft-Ball Season Gets Underway Monday

The current Softball League will open its 1966 doors next Monday at 6 p.m. Play on Monday, Tuesday and Thursday will take place at Pinewood Park, Oak Ridge.

Schedules are already in the hands of team captains. Let's play ball!

### DELICATE CHOICE

Joan of Arc, as any school child knows, was burned for not recanting. This was before the guillotine became so popular in de Gaulle's Gaul. Or, as the history wag down the hall says, the maid preferred a "hot steak" over a "cold chop."



CARL BREWSTER, MEDICAL, receives a cigarette box from the Oak Ridge Sportsmen's Association President H. F. McDuffie. At left Mrs. Brewster looks on . . . and at the right Jack Case beams his pleasure. Brewster was honored by the National Rifle Association recently in Chicago, being awarded their first public service award.

## National Rifle Association Honors Y-12's Carl Brewster

Honors have come to Carl Brewster, Medical, for his varied interests in promoting the fine sport of shooting. The National Rifle Association gave Carl their first Public Service Award at their annual banquet recently. The dinner was held in the Edgewater Beach Hotel, Chicago, Wednesday, April 6.

Harry Hoy, an NRA national director, nominated Brewster for the award. He describes the Y-12er as "the man you see if you want something done. Largely due to his efforts, the Oak Ridge Sportsman's Association and its facilities are widely known in shooting circles, but he is not content to stop there."

Countless spare-time hours have been spent by Brewster over the years in promoting the art of shooting and shooting organizations. He is vice president of the Tennessee State Rifle Association, and has been a member of the Oak Ridge Sportsman's Association for years.

Brewster is one of the founders of the state civilian rifle team,

and has been its captain and coach since it began. (He is already engrossed in plans to attend the national firing competition at Camp Perry, Ohio, in mid-August.) An auxiliary policeman in Oak Ridge, he also served as assistant firearms coach for the Oak Ridge Police Department. Carl has authored two training manuals and plans to use one of them in conducting a clinic later on this year.

Immediately after his return from Chicago, the ORSA gathered for a testimonial to honor their "native son." President H. F. McDuffie presented Brewster with an inlaid cigarette box to show the appreciation of the local group for the honors brought back from the NRA annual meeting. The banquet was held at the Holiday Inn, Monday, April 11.

The handsome plaque brought back from Chicago reads "NRA Public Service Award — Carl Brewster — 1966." It is embossed with the seal of the NRA.

Congratulations, Carl.



B Shift anglers are staging a rodeo at Stardust Boat Dock, Norris Lake, beginning next Monday, May 9, at 5 a.m. The competition ends the next day, Tuesday, May 10, at 5 p.m.

All Y-12ers are invited to the rodeo . . . bring the family along. Free launching is available at Stardust.

Previous to the big Y-12 rodeo, the Anderson County Sportsmen's Club will hold its annual fishing rodeo. It begins on Norris at 5 a.m. Saturday, May 7 and extends through Sunday, May 8, at 4 p.m. The entry fee is 50 cents registration at the following docks: Anderson County Park, Stardust, Sequoia, and Andersonville. First, second and third place prizes will be awarded for the largest catches in the bass, pike, crappie and stripe species. Headquarters for the event will be the Club House located in the cove between the Park Dock and Stardust.

So, Isaac Waltons may make a complete long weekend of it, if they wish . . . fish in the ACSC rodeo Saturday and Sunday . . . then come back Monday and Tuesday for the B shift affair. Look's like fishing is picking up.



"Sure, I know Lincoln was splitting rails at my age—but by your age he was President!"

## Wyatt Gains Points In Table Tennis

Roy Huddleston, Y-12, moved up in the Table Tennis tournament last week by downing Herbert Mook, Roger Pilloton, and Loyd Wyatt. Wyatt, however, gained standings by defeating Charles Goeking, Gordon Brewer, and league-leader Bob Bullock.

Standings follow:

Player	Won
Bob Bullock, ORNL	17
Loyd Wyatt, Y-12	16
Denver Jones, ORNL	14
Roy Huddleston, Y-12	13
Herbert Mook, ORNL	8
Roger Pilloton, ORNL	6
Gordon Brewer, Y-12	5
A. J. Norris, Y-12	5
V. R. Uppuluri, ORNL	4
W. B. Motley, Y-12	3
John Lushbough, ORNL	2
Joe Lewin, ORNL	2
A. J. Weinberger, ORNL	2
Charles Goeking, ORNL	2
F. Kertesz, ORNL	0
Fred Schull, ORNL	0

## Good News For Grads As Jobs Increase

Good news greeted our biggest-ever army of college students, gathered on American campuses for the 1965-66 school year:

Though the output of graduates by the nation's colleges and technical schools has soared by a third — 130,000 since 1960, the supply of new jobs has more than kept pace with the growing number of job-hunters.

Though the average cost of a college education has risen almost 11 to 13 per cent in the past five years, average salaries for graduates have risen almost twice as fast — by nearly 20 per cent for technical graduate and 23 per cent for non-technical grads.

These facts are based on the 30th annual college graduate employment survey just completed by Northwestern National Life Insurance Company.

## Tee-Off Time Application For Wallace Hills Tournament

Saturday, May 21

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, May 18. Tee-off times will be drawn the next day, Thursday, May 19, at 8:30 a.m.



RETURN POSTAGE GUARANTEED

Post Office Box Y  
Oak Ridge, Tennessee—37830

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



May . . . or "morning when the world was made" . . . sees more Y-12ers crossing important bridges with Union Carbide Corporation. Congratulations.

#### 20 YEARS

**Vernon O. Messenger**, Research Services, May 4.

**Hugh Barnette**, Janitors Department, May 6.

**Herman G. P. Snyder**, Superintendents Division, May 6.

**Clyde T. Oglesby**, Grounds and Maintenance Shops, May 7.

**Harry G. King Jr.**, Laboratory, Development, May 8.

**Percy D. Duke**, Utilities Administration, May 9.

#### 15 YEARS

**Earl A. Crow Jr.**, Electrical Engineering, May 4.

**Lowell C. Stooksbury**, Chemical Services, May 7.

**Theira J. Flood**, Chemical Engineering Development, May 7.

**Clarence R. Bolt**, Area Five Maintenance, May 7.

**Floyd A. Higginbotham**, General Machine Shop, May 7.

**Edward Hensley**, Area Five, Maintenance, May 7.

**James E. Thompson Jr.**, Chemical Services, May 7.

**Della M. Lewis**, Research Services, May 7.

**Steve E. Pelizzari**, Assembly Operations, May 8.

**William H. Stanton Jr.**, Stores Department, May 9.

**Amburn D. Casey**, Electrical Department, May 9.

**Keith Eastridge**, Research Services, May 10.

**Labron Valentine**, M-Wing Shop, May 10.

**William Stooksbury**, Beta Two Forming, May 10.

#### 10 YEARS

**Peggy L. May**, Employment Department, May 7.

**Norman E. Hoffman**, Beta Four Forming, May 9.



**THE DEVELOPMENT DIVISION** recently conducted a poster contest among its employees and their families. Beverly Ballard, daughter of Ambrose Ballard, Ceramics and Plastic Development, took the prize for a poster on hand and finger safety. She accepts her gift from W. K. Whitson, division superintendent, as her father looks on from the right.

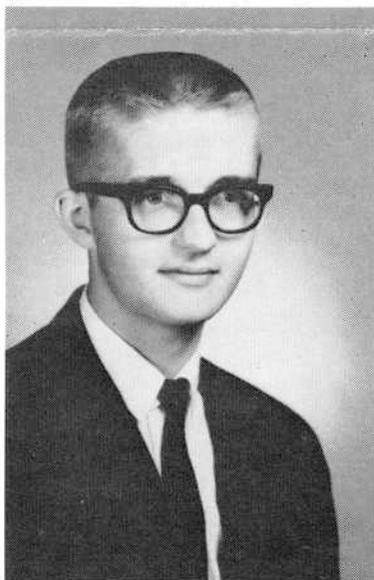
## Mike McLain Is Sterling Graduate

Michael McLain, son of Mr. and Mrs. James McLain, will graduate from Roane County High School this Spring in sterling form. Not only will he rank in the top ten per cent of his class academically, but his extra-curricular activities are numerous also.

Mike has played in the band all four years of high school . . . was twice selected to play in the East Tennessee Band. He played the tuba one year in the Oak Ridge Symphony Orchestra.

During his junior year, McLain attended Boys State. He belongs to the Math Club, the Beta Club, and was business manager for the school annual. The faculty at RCHS selected him to Who's Who and he was chosen by fellow classmates as the student most likely to succeed. Mike plans to attend Tennessee Technological University and study mechanical engineering.

The McLains live on Bonny View Avenue, Route 2, Kingston. Papa McLain is in Y-12's Shift Superintendents group.



Michael McLain

## Atomics Enter Crime Investigation Field

A new and effective atomic technique used in criminal investigations is covered in a new color motion picture now available from the Atomic Energy Commission.

The new film, "The Nuclear Witness: Activation Analysis in Crime Investigation," is 16mm, runs 28 minutes, and is suitable for showing before the general public, law enforcement officials, the legal profession, high school and university, industrial, business and scientific audiences.

The new film describes how the nuclear technique of activation analysis is used in the examination of physical evidence in criminal cases. The method is some 100 to 1,000 times more sensitive for the detection of most elements than methods currently available in the usual crime laboratory.

The film may be borrowed free of charge from the Motion Picture Film Library at the AEC.

## Vietnamese GI's Write For 6-12

Attacked by enemy mosquitos and hampered by a temporary shortage of the proper ammunition to fight the mosquitos, U.S. Marines in Vietnam have been displaying traditional resourcefulness.

Two privates and a corporal, with the Third Marine Division in Danang and Chi Lai, simply sat down and wrote directly to the president of Union Carbide's Consumer Products Division. They stated that the Post Exchange was out of the company's "6-12" brand of insect repellent and that they wanted to buy some.

Wrote one, "I believe your insect repellent is the greatest thing since the fly swatter. When I feel like the insects are winning, I simply pick up my can of repellent, fire a few short bursts to my exposed person, and the insects depart screaming."

Complimentary aerosol cans of the insect repellent were rushed by air to the writers. At last reports, the PX's in Vietnam were being restocked.

### GATHERING OLIVES

A customer at a bar noticed another tippler dipping olives from martinis and dropping them in a jar. "Look at that nut," he said to the bartender, "He's putting olives in that jar. Itn't that odd?"

Bartender: "Not odd, at all. His wife sent him out for a jar of olives."

## Records Crumble

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unit having a capacity of 1,200,000 pounds per year and requiring only one-fifth as many people to operate. Since Union Carbide is the world's largest consumer of this chemical, as well as the leading producer, the improved economics resulting from this modernization will be felt not only in ethylene but also in all of the many products derived from it.

The chemical glyoxal, which Union Carbide has produced for over 25 years, was cited as an example of effort to uncover new markets for existing products. Recently, significant quality improvements have been made in the product, and the improved product in turn has made possible the new permanent-press fabrics for which the demand has grown at such a remarkable rate in the past year. As a result of this and other new applications, Union Carbide's glyoxal sales are increasing from about three and one-half million pounds in 1964 to an estimated 30 million pounds this year, and facilities are being installed to bring total capacity to 180 million pounds to meet the rapidly increasing demand for this product.

The battery business is also undergoing substantial growth as a result of the development of new markets and products. The corporation's overall battery sales have increased about 50 per cent in the past five years.

### Other Diversified Products Enter Into Many Markets

New business opportunities are seen in the recent development of three agricultural chemicals. These will complement the widely used Sevin insecticide, which has made Union Carbide a strong factor in the worldwide pesticide market. One is a miticide and is effective on species that have grown resistant to conventional treatments. Another is a herbicide, which kills weeds as they germinate. The third is a systemic pesticide, which is absorbed internally by growing plants, and, after it has performed its service, is gradually destroyed by the plant through normal processes, so that no toxic threat remains at harvest as a hazard to either man or animal.

Other developments on the list of promising contributors to future earnings growth include peracetic acid and its many derivatives, now being used in a wide variety of markets — including electronic goods, textile fibers, and printing inks, a strong ore position in vanadium, tantalum, and columbium, which is enabling the corporation to participate in the growing market for new materials for space vehicles, aircraft, communications, and other high-performance applications, two new plastic materials, polysulfone and parylene, which are opening up entirely new markets as a result of their unprecedented physical properties, ocean engineering, which has already reached an annual sales rate of about \$2 million, carbon and graphite cloth and yarns for us in electrical and structural components for commercial, military and space applications, and the polarstream in-transit refrigeration system, which preserves food quality during delivery more effectively than ever before possible.

Union Carbide serves markets in over 100 countries and has approximately 60 major subsidiary and associated companies with producing plants in about 30 countries. These companies, in which the corporation's ownership ranges from 50 to 100 per cent, employ about 50,000 people.

To show stockholders how rapidly the corporation's foreign business has grown, the results of the last three years were compared — including export sales and the operations of Canadian subsidiaries and other foreign companies 50 per cent or more owned. On this basis, in 1963, sales to customers outside the United States amounted to about \$518 million, in 1964, they increased 24 per cent to \$640 million, and in 1965, they were up 12 per cent to \$715 million. Earnings followed a similar pattern. They were about \$36 million in 1963, increased 61 per cent to \$58 million in 1964, and were up 19 per cent to \$69 million in 1965. Union Carbide's share of these earnings, after deducting for minority and 50 per cent interests, was \$32 million, \$9 million, and \$55 million, respectively.

Currently, an extensive expansion of these foreign operations is underway, which involves not just incremental expansions but, in many instances, the addition of completely new product lines. Among the illustrations given were a wholly owned Belgian subsidiary, which is branching out from a polyethylene facility to the production of a broad group of petrochemicals, and an Indian affiliate, which started with a battery plant and now manufactures flashlight cases, carbon products, metals, chemicals and plastics.

Construction of production facilities in other countries has been found to increase rather than decrease Union Carbide's business. The Corporation's foreign business has made a welcome contribution to the improvement of the United States balance of payments. Union Carbide had a favorable balance of \$146 million last year, an increase of \$11 million over the previous year, and expects to continue to maintain a highly favorable balance as its foreign business grows. Subsidiary companies outside the United States are expected to remit substantial dividends to this country and to do their full share in financing their own growth both through internally generated funds and, when necessary, through outside financing based on their own credit standing.

## Instrument Society Meeting Is Tonight

The Oak Ridge Section of the Instrument Society of America's May meeting is set for tonight, Wednesday, May 4. W. D. Burch, ORNL's Chemical Technology, will speak on "Transuranium Program."

The dinner meeting is set at the Holiday Inn, Oak Ridge, with a social hour at 5:45 and dinner at 6:30 p.m.

All ISA members and guests are cordially invited to tonight's meeting.

Security is always in season.