

## Union Carbide Corporation Owes Existence To System Of Industrial Research Fellowship Originated At Mellon Institute

### Application Of Science To Industry Is Aim Of Pittsburgh Group

This is a story of pioneers—Carbide pioneers in industrial chemistry. It should be an inspiration and source of pride to Carbide folks who work here in Oak Ridge—Carbide pioneers in atomic energy.

The Mellon Institute of Industrial Research at Pittsburgh, Pa., is an active proof of the soundness of a principle. That principle—and the established aim of Mellon Institute—is the application of science to industry. The exercise of this principle in the form of Mellon Institute sprang from an idea originally formulated by Dr. Robert K. Duncan—educator, writer, and leader of research. Today the facilities at Mellon, including Carbide's Research Fellowships, are the outcome of 40 years of developing this principle.

### Impressed By European Methods

During the early 1900s Dr. Duncan travelled in Europe as a scientific reporter. Through visits to factories, laboratories, and universities, he became impressed with



THIS GREAT BUILDING STANDING IN A QUIET PITTSBURGH, Pa., neighborhood is the principal unit in the Mellon Institute of Industrial Research.

the spirit of co-operation that existed between industry and science—to the advancement of both. This made him realize that much of the American chemical industry was weak because of lack of appreciation for scientific research. In 1911 Dr. Duncan accepted an

invitation to start his plan at the University of Pittsburgh where a large industrial center offered special opportunities. Interest in his project continued to grow. Two years later the Mellon Institute of Industrial Research was established at the University of Pittsburgh.

### Many New Uses For Chemical Products Found In Laboratories

The system has continued to prosper under Dr. Edward R. Weidlein who has directed the activities of the Institute since shortly after the death of Dr. Duncan in 1914.

### How Mellon Institute Operates

At Mellon Institute research is organized on a contract basis. The problem is set by a "donor" (person, firm, or association) interested in its solution. The scientific worker is found and engaged by the Institute, and an Industrial Fellowship is assigned. The Fellowship is provided with the broadest facilities for solving the problem and all results belong to the donor that founded the Fellowship.

During the years since the first Fellowship was established, approximately 350 donors have supported over 3,000 Fellowships at a cost of some \$40,000,000. The most recent yearly report of its activities showed 87 Fellowships in operation employing 750 persons and a total annual expense of \$3,500,000. The Fellowship system also

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## Work Is Begun On East Portal Parking Area

### Pedestrian Gate Hours Announced; Pay Point Station Established

Construction work on repaving and improving the East Portal parking lot was scheduled to get under way Monday morning of this week. The project is being handled by the Harrison Construction Co., Maryville, whose low bid of \$33,777 obtained the contract for the work from the Atomic Energy Commission.

Everything was in readiness for the contractors to move in Monday, as a temporary parking area had been completed for some time. This area is located north of the Garage, Bldg. 9712, and is reached from two gates leading from Bear Creek Road.

### BE CAREFUL, COURTEOUS IN USING TEMPORARY EAST PORTAL PARKING

Hey fellows—don't push—there's plenty of time.

Every effort has been made to establish as convenient as possible temporary parking space for Y-12ers using the new East Portal lot. However, it is urged that every possible driving precaution be taken by drivers using the new lot to avoid any kind of an accident—no matter how minor. Care and courtesy to the other fellow will pay dividends in safety for everyone.

## 18 Isotope Shipments Are Made During June

Stable isotopes produced by the Y-12 Isotope Research and Production Division were sent to 11 different consignees in 24 shipments during the month of June. During May 18 shipments were made to 10 laboratories.

The Oak Ridge National Laboratory received the largest number of shipments during May. ORNL got six assignments. Three were 10 milligrams each of Iron 54, two were Iron 58 totaling 70 mgs., and one was of Hafnium 177 amounting to 20 mgs.

### Two Get Four Shipments

The University of Wisconsin and the Los Alamos Scientific Laboratory each got four shipments of Y-12 stable isotopes. The university got 51 mgs. of Antimony 123, 20 mgs. of Antimony 121, 50 mgs. of Tellurium 122 and 52 mgs. of Mercury 196. Lcs Alamos received the second largest shipment of the week, 1,063 mgs. of Lithium 6. This laboratory also received 994 mgs. of Lithium 7, 50 mgs. of Tungsten 180 and the same amount of Tungsten 182.

Washington University, of St. Louis, Mo., got shipments of 100 mgs. each of Zirconium 91 and Zirconium 90 and 94 mgs. of Molybdenum 92.

### General Electric Gets Biggest

The largest single shipment of the month was 1,111 mgs. of Carbon 12 to General Electric Hanford, Wash. All of the other shipments were single consignments and included 506 mgs. of Lithium 6 to the University of California, 101 mgs. of Lithium 6 to Carnegie Institute of Washington, D. C., 1,000 mgs. of Indium 113 to Oak Ridge Institute of Nuclear Studies, 287 mgs. of Potassium 40 to Massachusetts Institute of Technology and 100 mgs. of Chlorine 37 to Purdue University.

## Get Your Feet Wet Folks, Y-12 Swim Party Set For Thursday Night At Oak Ridge Pool

Step right up, folks—get your feet wet—only four bits, one-half of a dollar. For that bargain price, Y-12ers, you will be privileged to attend from 8 o'clock on tomorrow night, Thursday, July 12, what is expected to be one of the outstanding recreational events of the year for the entire plant—the first annual swimming party to be staged at the Oak Ridge pool. Of course, that price is 50 cents per person—but it is cheap at twice the price.

Not only will there be swimming contests for Y-12ers who know the difference between the Australian crawl and a drop kick—but a number of other contests and events are being arranged to make the party one of fun and entertainment for everyone attending.

A free-style race and a diving contest for the real swimmers is on the program. Then there will be comic diving and a strip race in which contestants plunge into the pool fully clothed—swim to the float, strip to—er, well enough to return with due modesty to the pool side and paddle back.

Beauty contests for both men and women—this should be good—also are scheduled as is a contest for the most comic bathing suit.

Prizes are listed for all these events and also for the youngest and oldest swimmers attending.

So all you Y-12ers make plans to be there—and bring your

friends. Form departmental and group parties or come alone—but be there, or be sorry. It is going to be fun. There will be an advance sale of tickets—just march up to the gate and plank down the admission fee. The pool will be chartered by the Y-12 Recreation Office for the event and the admission fee is merely to cover expenses.

### 'Meson Theory' To Be Topic At Physics Seminar Meeting

The topic for the weekly meeting of the Oak Ridge Physics Seminar on Friday afternoon, July 13, will be "Meson Theory." The meeting will be held in the East Lounge of the Ridge Recreation Hall and the speaker will be Dr. S. Tamor, of the Oak Ridge National Laboratory physics division. All Y-12ers interested in the subject are invited to attend the seminar session Friday.

### 'Out Of This World' Set For Curtain Time Sunday

The presentation on the weekly Sunday night radio show "Curtain Time," over Oak Ridge Station WATO, sponsored by Carbide, will be the musical comedy, "Out Of This World" for Sunday night, July 15. The broadcast is from 8:30 p. m. to 9 p. m.

Featured numbers will be "Use Your Imagination" and "Nobody's Chasing Me."

## 98.34 Per Cent Sign For New Savings Plan

More than 98 per cent of Y-12ers eligible to participate in the Seventh Union Carbide and Carbon Corporation Savings Plan have signed up for the plan that began operation on July 1 and which will continue through June 30, 1953. The exact total was 98.34 per cent.

### 1956 Of 1989 Sign Up

Of the 1394 eligible hourly and weekly paid employees in the plant, a total of 1365 signed application and payroll deduction cards to join the savings plan. Among the 514 monthly paid employees eligible, 505 signified their intention of participating. That made a grand total of 1956 out of 1989 eligible employees participating in the plan.

Eligibility to participate in the Seventh Savings Plan requires one year of Company service. Employees who reach that eligibility date will be notified and given an opportunity to enroll in the savings plan if they so choose. Participation in the savings plan is entirely voluntary on the part of employees.

### 1483 Collected July 2

During the two years of the Sixth Savings Plan that wound up June 30 with the payoff being made on July 2, a total of 1483 Y-12ers collected checks amounting up to more than \$950.

### RADIATION STUDY SET

Earle Reynolds, Fels Research Institute anthropologist, is inspecting effects of the atomic bomb explosion in Hiroshima, Japan, on children exposed to the blast. The study is being made under auspices of the Atomic Energy Commission and the National Research Council.

### SAFETY SCOREBOARD

Your Plant Has Operated  
75 Days  
Without A Lost Time Accident  
Through July 8

# The Bulletin

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## New Supply Of UCC Booklets Available At The Bulletin

A new supply of the Union Carbide and Carbon Corporation booklet, "Products and Processes," has been received at the office of The Bulletin, North Portal, and are available to any Y-12ers desiring them.

The handsome illustrated publication is full of data about the various units of Union Carbide and is a valuable source of information for all Y-12ers and members of their families.

Anyone wishing a copy of the booklet may obtain it by calling at the office of The Bulletin.

## Holiday Delays Y-12 Report On July 1 Attendance Mark

Because of the July 4 holiday last week, many departments found it impossible to file complete report records for the preceding week in time for publication in The Bulletin. As a result, the weekly absentee record for the week ending July 1 will not be published this week.

However, it is hoped that information on the combined reports of attendance records for the week ending July 1 will be available for publication in The Bulletin next week.

## Biology Seminar To Hear Daniels

"Thermo Luminescence of Crystals" will be the topic of a talk by Dr. Farrington Daniels at a meeting of the Biology Seminar tomorrow, Thursday, July 12. The meeting will be held at 3:30 p. m. in the third floor conference room of Bldg. 9207. Dr. Daniels is with the University of Wisconsin Chemistry Department.



Only one Y-12 employee was listed as a father of a baby born last week at the Oak Ridge Hospital. He was William A. Wells, Product Chemical, who became father of a son born July 5.

## Dean Says Explosions Not Atomic Bomb Blasts

Chairman Gordon Dean, of the Atomic Energy Commission, told a press conference recently that the recent explosions at the Los Vegas, Nev., atomic test site, were authentic nuclear detonations but were not atomic bombs. The chairman explained that the primary reason for carrying out the tests in Nevada was to save time. He also said that the AEC policy regarding the experiments will be neither to affirm nor deny speculation but noted that there have been no reports of radiological hazards.



A host of Y-12ers of the "older generation," having been here during the Tennessee Eastman regime, sincerely mourned the tragic death of Tom Clynes from injuries received in an automobile accident. After leaving Y-12 he eventually became interested in the insurance business but always remembered his friends here. Incidentally, it was Tom Clynes who provided The Bulletin with the print of the Declaration of Independence that was published in the July 4 edition of the paper last year.

Virginia Smith, of Analytical Chemistry, and her husband, Guy, of the Chemical Department, enjoyed their new home while vacationing last week. They also spent some time in Gatlinburg. . . . John Peelle spent his vacation period getting better acquainted with his new son. . . . Get-well wishes are extended to Nancy Baxter and Thelma Miller.

W. L. Lowry, of the Material Chemistry Division, and his wife decided to spend their week of vacation on a chartered bus trip to Tulsa, Okla. . . . Dr. D. G. Hill hit the jack pot on July 4, in winning the \$500 defense bond over at the boat races in Kingston. . . . George Nettle and his wife are spending a two-week vacation in New York. . . . Folks in the division are missing C. C. Haws since he terminated last week to accept a position with AEC. . . . Mildred Swan spent the week end in Memphis, Tenn.

The Cafeteria and Canteen Department extend get-well wishes to Edna Campbell, who is ill at home.

Helen Matthews, of Stores, is vacationing at home in Okalona, Miss. . . . Mary Margaret Norton expects to have a lot of fun—and luck—since she got her fishing license and a week's vacation to spend all the time she likes on the lake near home at Concord. . . . W. C. Davis is also vacationing this week.

Bill Coggins, of Property Sales, and his family, are spending a two-week vacation in Florida. . . . W. A. Nichols is off on a two-week vacation.

Lennis Winchester, of Plant Records, journeyed over to Cherokee, N. C., last Tuesday night to attend the play, "Unto These Hills" . . . Arminia Chitwood was among the many Oak Ridgers over at Kingston to see the boat races on July 4. . . . A speedy recovery is wished for Helen Burkhalter, who is in the Oak Ridge Hospital. . . . Dot Conner had her mother, Mrs. R. A. Hemphill, and her sister, Hazel, from Chattanooga, visiting in Lenoir City recently. . . . Sue and Jim English along with Cliff and Alva Henderson, vacationed in Miami, Fla., last week. . . . Martha Wilson chose New Jersey for vacationing last week.

Research Engineering extends a welcome to John Carl Thomas, newest member of the group.

Plant Engineering wishes a speedy recovery for Andy Huddleston, in St. Mary's Hospital, in Knoxville.

T. H. Allison, H. H. Neal, F. L. Hammer, J. V. Overton and J. C. Booher are on the vacation list from the Guard Department. . . . Capt. Raymond Ledford was vacationing at home last week—we hear he has taken on a new sport—hobby or what have you. At the last count Ray had caught three skunks and is now deodorizing them. Looks about as profitable as fishing.

Editor G. W. D. steps in to proudly apply for membership in the Y-12 Grandpappy's Club with grandsons to carry on their name. The Ed. became eligible July 2 when his son, G. W. D. Jr., announced birth of his son, Gilbert Charles Dobbs. All right, Esther, take it away again.

The Electrical Maintenance Department has a long list of vaca-



Y-12ERS IN THE EAST TENNESSEE CHAPTER OF THE AMERICAN CHEMICAL SOCIETY had a big time at the annual chapter picnic Saturday, June 23, at Big Ridge Park. The pictures were made for The Bulletin by Roberta McCutchen, of the Y-12 Analytical Chemistry Division. In the picture at left are the K. O. Johnssons, the Claude Hawes, Mary Evelyn Hawes and Sammy Hawes. Small fry are seen enjoying the picnic meal in the center picture. They are, around the table, Boyd Green, Marjorie Fairbourne, Linda Brady, Lorraine Brady, Leo Brady, Pamela Fairbourne, Belva Fairbourne, Stanley Fairbourne, Don Kuhn, Mrs. Don Kuhn and Mrs. Ruby Green. At right Don Phillips and Mrs. Phillips are really loaded—with food, that is.

tioners. G. E. Fielden is spending his last week in St. Petersburg, Fla. . . . Others on the list are: H. R. Bailey, H. R. Atkins, J. L. Young, E. E. Oliver, W. S. Arnold, J. W. Scarborough, J. L. Crawford, W. F. Smith, M. P. Welch, R. E. Lanter, R. A. Francis, Roy Sampel and M. C. Gore.

Geneva Carter, Planning and Estimating, and her husband are off to Nashville and Chattanooga, vacationing.

E. L. Bailey, of Stores, was vacationing last week and we hope he got caught up on his fishing. . . . J. A. Duncan is spending a two-week vacation just loafing around home in Wartburg.

W. K. Palmer, of the Manufacturing Offices, and his wife are stopping by Cincinnati and Toledo, Ohio, to visit friends on their vacation trip to Washington.

A. O. Phillips, of the Tools Department, and his family are spending a two-week vacation in Kentucky.

Betty Stevens, of Health Physics and Hygiene, is vacationing for two weeks at Daytona Beach. . . . E. G. Struxness and his family vacationed recently in Springfield, Mo. . . . O. M. Wisdahl stayed around home in Oak Ridge and Pat A. Zerby spent her vacation at home in Cleveland, Ohio. . . . We were sorry to hear of the automobile accident Norman Hildreth's brother, Howard, had recently and wish to extend to him a speedy recovery from injuries received in the crash. . . . A welcome is extended to Ray Whitehorn and E. B. Pflasterer, latest additions to the roster.

Helen Ross, in the Wage Standards Office of the Personnel Division, is vacationing this week at home in Oak Ridge, away from all telephones.

Joe Smyrl, our roving reporter, and assistant to Recreation Supervisor Arnold Tiller, is on a camping trip in Pennsylvania this week.

Plant Protection Superintendent Gentry Underwood and his family have returned from Mississippi after a week of vacation. . . . Margaret O'Neal, of Security, and her family took a recent vacation trip down Florida way.

A. B. Crockett, of Maintenance Utilities, is back with his hammer and saw, after a week's vacation. . . . J. D. Tolliver, A. H. Schubert and W. J. Wiggins are resting up on two-week vacations.

Those reporting back from a week of vacation in Field Maintenance are O. B. Wray, W. W. Watson, O. C. Lee, H. A. Garrett, F. H. Marrow, R. L. Greene, C. E. Davis, H. J. (Tanglefoot) Tate, T. S. Moody, E. W. Woodward, U. L. Peppers and C. S. Munsey. . . . Seems the only fellow who knows where he's going to be vacationing this week is George Riddle. He was up in Detroit, Mich., taking a squirt at the All Stars in action.

Sammie Mattingly, of the Assay Laboratory, vacationed around home in Oak Ridge last week. . . . The laboratory extends get-well wishes to Frances Kelly's mother, who is ill and in the hospital in Montgomery, Ala. . . . J. W. Redmond is doing a lot of fishing over



Y-12ERS AND MEMBERS OF THEIR FAMILIES HAD A lot of fun at Concord Park, June 16, when the Analytical Chemistry Group of the American Chemical Society staged a barbecue picnic. The pictures were made by Y-12er Dr. W. K. Miller. Around the table in the top picture are Dr. R. Rowan, his son, Beau; wife, Marian; and another son, Bill; Mrs. Ellen Menis and Dr. Oscar Menis and at the right are Mrs. Lucille Miller, wife of Dr. Miller, and her nieces, Becky and Cindy Witters. In the bottom picture are Tommy Susano, Mrs. Eloise Susano, Mrs. Artice Lee, Mrs. Lorraine Brady, Jean Soard, Velma Soard, Bill Ross, Guy Smith (back to camera), Mrs. Virginia Smith, Sue McKinnon and Mrs. Lucille Miller. The Bulletin will welcome similar pictures from all employees showing their picnic and vacation activities.

at Cool Point, N. C., while vacationing this week.

R. L. Jamison, of the Analytical Laboratory, vacationed in Louisiana, last week. He also attended his sister's wedding in Little Rock, Ark. . . . Elizabeth Patrick and Anna Ruth Roberson took off last Saturday for a week of vacation at Daytona Beach. . . . and Martha McCombs returned this week from vacationing at Daytona. . . . Nancy Shobe, Bonnie Anderson and Helen Greeter visited Katherine Dalton at her home in Corryton, on July 4. . . . A hearty welcome is extended to Joe Stewart and Jack Day, who have been added to the roster. . . . The group has quite a sick list this week and a speedy recovery is wished for them: Jennie Fitch, Martha May, Bill Burns, Marty McMahan, Isabelle Peck, Irene Fiser and Peggy Reeves.

Lovelle Thompson, of the Electromagnetic Research Division spent last week vacationing at her home in Camden, Tenn. . . . The F. A. DiCarlo's had as recent guests Mrs. DiCarlo's brother, James H. Milmore, and his family from Philadelphia, Pa. Bob Charpie vacationed in Cleveland, Ohio, last week.

L. O. Gilpatrick, of the Isotope Research and Production Division, and his wife are spending a two-week vacation touring Eastern Canada. . . . Boody Garrett is on a two-week vacation.

We got word last week that Charles E. Kirkwood, a former Y-12er, is now stationed at the Dow Air Force Base in Bangor, Me.

Congratulations are extended to Fannie North and to Ruth Kidwell Wisecarver, former Y-12ers. Both

are the proud mothers of bouncing boys.

An Old Sojer is a veteran who just laughs and laughs at this wrangle over what is a G. I. The Old Sojer remembers when a G. I. was a can—not a man. Remember, you old timers—the old galvanized iron?

So long, everybody.



The following Y-12 employees were patients at the Oak Ridge Hospital last week: Thomas L. Hart, John H. Neeley, Jr., and Cleveland Cannon, Product Chemical; Hubert A. Marrow, Field Maintenance; Lee R. Bailey and Kenneth E. Caughron, Maintenance Utilities; Stuart L. Pack, Normal Uranium Processing; William A. Burns, Jr., and Mable M. McMahan, Analytical Laboratory; Helen M. Burkhalter, Library; Louise W. Bond, Isotope Research and Production; Cordell H. Dixon, Stores; Ralph McNatt, Chemical.

### NEVADA CAMP PLANNED

According to the Associated Press, the Atomic Energy Commission plans to build camp facilities costing up to \$1,500,000 at the Nevada test site. The camp will include barracks for men and women providing accommodations for 400 persons.

If you can't smile more, frown less.

6-2747

# Y-12 SPORTS NEWS

## Bldg. 9212, Duds Deadlocked In Red Hot Plant League Race

### Orphans Pushing Leaders With All Having Clean Slates; Last Round Of Play To Begin Next Week

The red hot race continued in the Y-12 Plant Softball League last week with two teams holding undefeated records and a tie for first place at the end of action last Thursday night. Bldg. 9212 and the Duds managed to keep their slates clean and found themselves with four tilts won and none lost for the second half of play.

Right behind these two teams were the Orphans, first half of the season winners. The Orphans had three games on the black side of the ledger and none lost.

The schedule for the next week, beginning tonight, Wednesday, July 11, follows:

Wednesday, July 11, 6 p. m., Bldg. 9211 vs Grocers. 7:30 p. m., Rusty 9 vs Bldg. 9212. 9 p. m., 49ers vs Sparks.

Thursday, July 12, 6 p. m., Isotopes vs All Stars. 7:30 p. m., Orphans vs Duds.

Monday, July 16, 6 p. m., All Stars vs Duds. 7:30 p. m., Grocers vs Isotopes. 9 p. m., Bldg. 9212 vs Orphans.

Tuesday, July 17, 6 p. m., Bldg. 9212 vs Sparks. 7:30 p. m., Orphans vs Isotopes. 9 p. m., 49ers vs Rusty 9.

These games will wind up the first round of play in the second half of the season with the second and final round getting under way next Wednesday night, July 18.

There were a pair of real close ones staged last week with the Grocers nosing out the 49ers 10 to 9 as a result of a last inning rally that produced three runs. In another tight contest the Duds came from behind to score four runs in the top of the last inning to drop the 49ers by 7 to 5. In both games the winners were out-hit but took advantage of errors and walks to win.

On the other side of the slate the Bldg. 9212 outfit slaughtered the Bldg. 9211 crew by 25 to 7, scoring 13 runs in the last inning.

Line scores of games last week and league standing follows:

Team	R	H	E
9212	4	3	4
9211	0	2	2
9212: Mustin and Moses. 9211: Gregory and Haggard.			

Team	W	L
Duds	000	304
Rusty 9	022	010
Duds: Low and Rhea. Rusty 9: McAllister and Morris.		

Team	R	H	E
Rusty 9	003	00	3
Sparks	134	10	9
Rusty 9: McAllister and Morris. Sparks: Maness and Lanier.			

Team	R	H	E
All Stars	033	621	15
9211	102	100	4
All Stars: Cottrell and Marrow. 9211: Wright, Gregory and Haggard.			

Team	W	L
49ers	203	003
Grocers	123	010
49ers: Bishop, Stanton and Jones. Grocers: Kinyon and Hutto.		

Team	W	L
9212	4	0
Duds	4	0
Orphans	3	0
All Stars	2	1
Isotopes	1	1
Rusty 9	2	3
Sparks	1	2
Grocers	1	4
49ers	0	3
9211	0	4

### NO MORE SILLIER THAN WORRYING OVER JINX OF FRIDAY THE 13TH

He reached in his pocket and pulled out a rabbit's foot. "Man, you'd have better luck if you depended on your brain instead of a mangy old piece of fur like that," I asked. "This here rabbit's foot has always kept me out of harm so far," he said. His eyes began roaming around as if he were looking for something. "What are you looking for?" I asked. "Some wood," he said. "I'd better knock on wood on that."



CHARLES PRATT, Y-12 Welding Inspector who hails from St. Louis, Mo., had to "be shown" about those big bass caught hereabouts. So George Ferrell and Earl Easterday, both of Maintenance Shops and veteran anglers, proceeded to do just that. They went out to Watts Bar Lake recently and pulled in the big and little fish, respectively, shown in the picture and then "convinced" Pratt they were real by having the former Missourian pose with them for the snap shot.

## Four Woods Lead Y-12 Golf League, Beating Deacons

The Four Woods took the lead in the Y-12 Plant Golf League last week, bumping the Deacons by 17 to 19. In other league matches the Green Rays topped the Birdies by 14 to 22, the Turf Riders bumped the Four 100s by 17½ to 18½, the Hooks hooked the Rough Riders by 16 to 20 and the Rippers and Divots tied at 18 points each.

The Four 100s, Turf Riders and Rippers are tied for second place with the Rough Riders being next in line and tied with the Divots in a close race in the second half of the schedule.

League standing follows:

Team	W	L
Four Woods	2½	1½
Four 100s	2	2
Turf Riders	2	1
Rippers	2	1
Rough Riders	1	1
Divots	1½	2½
Green Rays	1	2
Degaons	1	2
Hooks	1	2
Birdies	0	2

## Another Y-12er Pens Safety Thoughts In Jingle, Slogans

Another little jingle and slogans on the theme of safety has reached The Bulletin office. This one is from Fred Williams, of the Analytical Laboratory in Bldg. 9212. Here it is:

"Do you have B.S. (bad safety)? Are you safe at work or play? Do you use precautions at home or away? Do you practice safety every day? Don't be half safe, use safety first. Then you may not expect the worst. If you are safe in all your areas You can do away with other worries. Here's some advice, so you take heed Safety is our greatest need. Practice it at all times But don't blame me for these poor rhymes."

## Robins Top K-25 To Stay Unbeaten; To Play Vestal

The high-flying Robins remained in a tie for tops in the Knoxville Softball Association women's league last week by taking their K-25 cousins to the cleaners last Friday night by the margin of 7 to 4. Six Bluebelle errors aided the Y-12ers in their victory as they could get only four hits.

Meanwhile the Red Birds, the men's softball outfit, had tough sledding as they dropped a pair of contests. Last Friday night the ORNL Roosters scored once in the first inning and that was enough as the Y-12ers could not solve the slants of King Kong Keller. At that, the Red Birds outhit the Labsters by four to three. The game was one of the best played in Oak Ridge this season, requiring but 44 minutes.

In their other start the Red Birds were beaten by K-25 earlier in the week by the score of 5 to 3.

The Robins will get a real test tonight at Midtown when they play the strong Vestal lassies, now tied with Y-12 for the loop lead. This game is set for 9 o'clock. Then at 7:30 Friday night the Robins play Graveston and the Red Birds meet Mascot, which replaced the Army team in the men's league, at 9 o'clock. Another twin bill is slated for the Y-12ers Saturday night at Oak Ridge when the Robins play K-25 again and the Red Birds clash with Vine Avenue.

Line scores of games last week follow:

Team	R	H	E
K-25	000	211	0
Y-12	210	310	x=7
Soard and Soard. Aikman and Roberts.			

Team	R	H	E
Y-12	000	003	0
K-25	200	030	x=5
Loy and Hale. Smith and Montgomery.			

Team	R	H	E
ORNL	100	000	0
Y-12	000	000	0
Keller and Morgan. Loy and Hale.			

We are not what we think we are, but what we think, we are.

## Remember - ONLY YOU CAN PREVENT FOREST FIRES



STRONG CONTENDERS FOR SECOND HALF OF THE season honors in the Y-12 Plant Softball League is the Bldg. 9212 team shown above. Players in back row, from left, are Archie Campbell, Ray Blankenship, Henry Krouse, Burkett Bailey, R. G. Marlal, Edwin M. Honeycutt, W. C. Walker and H. L. Horne. In front are Walt Sherrod, George McPherson, C. M. Moser, C. A. Hall, H. A. Keen, J. D. Shoemaker and R. M. Mustin. The numerous small fry, all co-mascots of the team, are Wally Sherrod, Don Honeycutt, Bruce Campbell, Jimmie Shoemaker, Gloria Lee Shoemaker and Jeanne Mustin. They form a strong rooting section for their dads and their teammates.

## Play Underway In Y-12 Handicap Meet; 36 Holes To Be Played At Ridge Links

From now on until next Friday, July 20, Y-12 golfers banging the little white pellets around the Oak Ridge Golf and Country Club will have an added incentive to clip those extra few strokes off their scores. The reason is that the Y-12 Handicap Golf Tournament got under way last Thursday and will continue until the previously mentioned Friday, July 20.

A total of 21 golfers submitted cards for up to 18 holes over the past week end in tournament play. Jack Speaks had the best 18 hole score with a gross of 81, which with a 12 handicap gave him a net 69. Arnold Tiller topped the nine hole scorers with a 37 overall, five handicap and a net 32.

Scores for 36 holes of play, to be evenly divided between the first and last nine holes of the course, must be filed by contestants. Players may shoot any nine holes of the required 36 at one time.

### Must Signify Tourney Play

All golfers intending to shoot for tournament score must sign out at the course professional's office before starting a round. This is an absolute requirement and no scores will be counted unless the golfers sign out as prescribed. This applies to players competing in league matches as well as those playing in independent matches. Signatures of at least one other player in such games will be required on the card.

Scores made during Y-12 Plant League play may be submitted for tournament play but the golfer submitting a card made in such competition must be playing with at least one more player and the golfer submitting the score and his partner must both sign the card.

### June 18 Handicaps Effective

All Y-12ers with an established handicap based on at least 27 holes of play on June 18 are eligible to compete in the tournament. These handicaps will apply in tournament play.

The winner and runner-up in the tournament will receive handsome trophies.

## Shugart Leads Club Tournament

John Shugart, Y-12 golfer, was leading qualifiers in the Oak Ridge Golf and Country Club tournament over the week end with a neat 77. Les Cater, another Y-12er, was close behind with 78.

Pedestrians should not take undue advantage of the law which gives them the right-of-way in a cross walk. Don't stroll across leisurely after the driver has come to a halt. Pedestrians should clear the crosswalk as quickly as possible and thereby create better respect for the law which requires vehicle drivers to halt at the crosswalk.

## Men And Women Netters Resume Play Next Week

The Y-12 tennis teams will resume activities in the Oak Ridge City League next week after a time out for a mid-season tournament.

The women netters are slated to meet K-25 next Monday afternoon, July 16. The Y-12 lassies, defending champions of 1950, took the first half of the season championship with but one loss, an upset defeat by Oak Ridge National Laboratory.

The masculine racquet wielders will get into action on Tuesday night, July 17, against the Atomic Energy Commission team. The Y-12ers finished in a tie for second place in their loop in first half play, the first place honors going to ORNL.

## Crippled But Courageous Cards Crushed In Couple

The crippled but courageous Cardinals took it on the chin twice again last week. They held the Chapman Highway club to a 3 to 1 victory last Saturday but collapsed under a barrage of base hits Sunday to lose to Rockford by 10 to 0.

Weak stick work cost the Cards both games. Against Chapman they could bang out but four bingles and got only two against Rockford. Dan Simmons hurled well for Y-12 against Chapman but Paddy Peckman took a lambasting from Rockford before giving way to Addison. Rockford hit the two Y-12ers safely 15 times.

## Slow Pitchers Seeking Win Over K-25 Athletes Tonight

Bolstered by several new players, the Y-12 Slow Pitch team in the Oak Ridge City League, is scheduled to resume hostilities tonight against the K-25 outfit. Although the Y-12ers have not yet won a game, Manager Tom Neimyer is confident that his bunch will break their losing streak at the expense of the boys from the banks of the Clinch.

Game time is 6 o'clock on the Midtown Field. Three other contests will follow.

## CARBIDE AND CARBON CHEMICALS COMPANY

A Division Of  
Union Carbide And Carbon Corporation  
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## Carbide Owes Existence To System Started By Mellon Institute Research Fellowships

Continued from Page 1

has served as a graduate and post-graduate training school for thousands of men and women who hold responsible positions throughout the entire chemical industry.

### How Carbide Began Existence

Carbide and Carbon Chemicals Company owes its existence to the Industrial Fellowship system. It came about like this.

The Prest-O-Lite Company, Inc., a major consumer of acetylene, felt the restriction of having to depend on calcium carbide producers for their raw materials. Research on finding another source of acetylene was started in 1914. This Fellowship was under the leadership of Dr. G. O. Curme, Jr., now Vice President in charge of research of Union Carbide and Carbon Corporation.

In parallel fashion, Union Carbide Company was seeking to diversify its sales outlets. It established a Fellowship to find uses other than welding, cutting, and lighting for acetylene made from calcium carbide.

The Linde Air Products Company also sponsored a Fellowship to study such problems as finding new uses for nitrogen.

### Consolidated To Form UCC

While these researches were under way, officials of the three companies were considering the possibility of joining forces. The outcome was a consolidation of the three firms, together with the National Carbon Company, to form Union Carbide and Carbon Corporation in 1917. In the new organization, making chemicals from acetylene, ethylene, and propylene—a possibility developed in the Prest-O-Lite researches—became the objective of what now exists as Carbide's "Organic Synthesis Fellowship."

The Mellon work, together with developments from the Linde Laboratory in Buffalo, N. Y., matured into a pilot development. The site selected was in Clendenin, W. Va., where raw materials from the natural gas industry were freely available. The first units of the now big South Charleston, W. Va., plant went into operation for the manufacture of ethylene glycol and related products in 1925. Carbide started to expand and in 1935 the Whiting plant went into operation. In 1941 the Texas City plant was started and five years later the large plant at Institute, W. Va., began producing a variety of synthetic organic chemicals.

### Made Chemicals From Acetylene

Further research at Mellon on chemicals from acetylene resulted in the development of a process for production of acetaldehyde and related products. Carbide helped open the first semi-commercial plant in this country for making chemicals from acetylene at Niagara Falls, N. Y. This was the forerunner of what is now the Niacet plant of Carbide and Carbon Chemicals Company.

The establishment of plants for the commercial production of ethylene glycol and acetylene derivatives might be looked upon as the end of the first phase in the life of the Organic Synthesis Fellowship at Mellon Institute. As a

closing step in this phase new research laboratories were established at South Charleston to further the supply of chemical knowledge and to aid in co-ordinating new production operations.

The function of the Organic Synthesis Fellowship during its second phase was to help find markets for the output of the new plant and to bring about expansion through new products. To do this, uses had to be developed for the new chemicals.

### Part Of Sales Department

In this second phase, which extends up to the present time, the Fellowship became a definite part of the Sales Department of the new Corporation. Development of new uses and new products became their goal.

The technical men who started contacting the customers became, by force of circumstance, the early sales staff of the Corporation. Most of this work in the early period was under Dr. J. G. Davidson, now President of Carbide and Carbon Chemicals Company. In co-operation with Dr. Curme and Mr. J. A. Rafferty, Carbide's former President and now a Director of UCC, the efforts were guided into a pattern that has been followed with little change up to present.

No laboratory group could handle the assignments of product research and development single-handed. It was evident that the sales force in this new chemical industry should be composed of men with training in chemistry or chemical engineering. Carbide's salesmen had to be more than just salesmen, they had to have first-hand experience with their products. In fostering the development of chemists and chemical engineers for this type of activity, Dr. Davidson instituted a marked departure from existing practices—one that influenced the future of the entire chemical industry. This system of employing men who were able to talk the customer's language and understand his problems has since been adopted by all progressive chemical firms.

### Fellowship Employs 43 Persons

The Organic Synthesis Fellowship, now in its 38th year, employs 43 persons, 38 of whom are engaged in technical work on laboratory investigations on a wide variety of problems.

A sizable activity is the evaluation of solvents and plasticizers for coatings. Here is a field of sales where continuous development work is imperative. The competition is keen with respect to a large number of competitive products. Considerable work is being done to improve lacquer solvent formulations. In the field of plasticizers broad evaluation work is under way, including tests of compatibility, volatility and resistance to cracking at extremely low temperatures.

### Best Qualities Brought Out

Nowadays the work of Vinylite for coating applications consist of taking the resins and plasticizers turned out by the research and development laboratories and formulating them into usable com-



THIS IS THE BUILDING WHERE EARLY WORK WAS done on Carbide's Organic Synthesis Fellowship about 1918. The four men on the left of the picture are Glen D. Bagley, now Chief Engineer, Union Carbide and Carbon Corporation Laboratories, Inc., Niagara Falls, N. Y.; G. O. Curme, Jr., now Vice President in Charge of Research for UCC; Henry R. Curme, formerly a research chemist; and J. N. Compton, who until his death in 1938, was Chief Chemical Engineer for Carbide and Carbon Chemicals Company.

positions that bring out the best qualities of the products. These formulations are brought to the attention of the paint, varnish, and lacquer industries and the manufacturers of coated paper and cloth. Many of the products of the Chemicals Company are used as emulsifiers, surface-active agents, coupling agents, and the like in a host of consumer products ranging from cosmetics to floor polishes.

During the 15-year period prior to World War II, approximately 125 employees each received training for a period of about six months on the Fellowship before taking up sales and other assignments throughout Carbide. Since 1946 groups of new sales personnel have attended shorter training courses at Mellon Institute to prepare them for their future work. However, it is hoped that a return can soon be made to the former practice of giving new sales personnel thorough first-hand experience in the Institute laboratories with the products of Carbide and Carbon Chemicals Company.

### Health Is Important Factor

There are many problems connected with the sale of chemicals other than the solicitation of an order. An important consideration is the effect of the product on the health of the customer and the possible threats to the health and safety of the plant operator during manufacture.

So in 1937, Carbide's Chemical Hygiene Fellowship was established at Mellon Institute. The object of this Fellowship was to study the health aspects of chemical compounds produced or handled within the laboratories and plants of Union Carbide and Carbon Corporation. The group has grown so that today 25 people are working on this Fellowship, and even with this large group the demands for toxicological information are so great that they are hard pressed to keep pace with the ever increasing number of new products.

Dr. Duncan's plan for centralized research has long since proved to be one of the remarkable successes of the times. Carbide's two research Fellowships have become one of the most important assets of the entire Corporation. Their accomplishments should be an inspiration to all who are engaged in progressive research. As in all scientific advancement, it is typified by the words of James Russell Lowell: "It is not the finding of a thing, but the making something out of it after it is found that is of consequence."

### SCIENTISTS TO MEET

Atomic scientists of the United States, Canada and Britain will meet at Harwell, England, to exchange data on radiation detection instruments, according to the Associated Press.

## Paducah Plant Land Easily Acquired By Government

Only one condemnation proceeding was necessary to be filed in acquisition of the 6,100 acres of land required by the Atomic Energy Commission for the new Paducah plant to be operated by Carbide and Carbon Chemicals Company, according to a news story in the Paducah Sun-Democrat, quoting C. B. Raymer, of the Louisville district of the United States Engineers.

Raymer, chief of the real estate section of the district, reports that the government has completed purchase of the needed land and that the transactions posed so few difficulties that they may have set a record for similar projects in the state of Kentucky. The government paid approximately \$550,000 for the land.

### NEW LABORATORY STARTED

Ground has been broken for the new \$600,000 atomic research laboratory at Boulder, Col., according to the Denver Post.

## Rides Wanted And Offered

**RIDERS WANTED**—From Knoxville, straight day shift. T. A. Troutman, Knoxville, telephone, 3-1171.

**THREE RIDERS WANTED**—From North Central St., Knoxville, to Y-12 East Portal, straight day shift. O. H. Cutshaw, plant telephone 7365, home telephone 3-2782.

**RIDE WANTED**—From LaFollette, straight day shift. Ralph L. Miller, plant telephone 796, home telephone LaFollette 420-M.

**RIDERS WANTED**—From LaFollette, straight day shift. David Johnson, plant telephone 7793.

## Newspapers Recognize Danger In Breaches Of Security

Two newspapers have editorially expressed the opinion that the recent warning of President Truman of the possibility of an atomic attack on the United States should not be discounted.

The Spokane, Wash., Spokesman-Review recognizes the danger but also points out that it would not exist if it were not for breaches in the national security that enabled Russia to steal atomic secrets.

The Washington Star, in an article by Randolph Leigh, states that the cases of the Rosenbergs, Fuchs and others is evidence of how "wide open" the nation's security has been. The Star believes President Truman's statement could be of great national service if it strengthens the security walls of the country.

## 1,600 Quit AEC Posts During FBI Loyalty Test

The Washington Post reports that the Atomic Energy Commission says in its ninth semi-annual report to Congress that of 200,000 persons in its program whose loyalty has been checked by the Federal Bureau of Investigation since January, 1947, about 1,600 quit during the investigation or were declared ineligible to hold AEC positions. The persons investigated include prospective employees, associates and the entire staff of the wartime Manhattan Engineering District.



HERE IS A CLOSEUP VIEW OF THAT PLAQUE RECENTLY awarded by the Tennessee Safety Council to J. J. Goodman, of the Y-12 Cafeteria, for bravery in rescuing three boys from drowning.