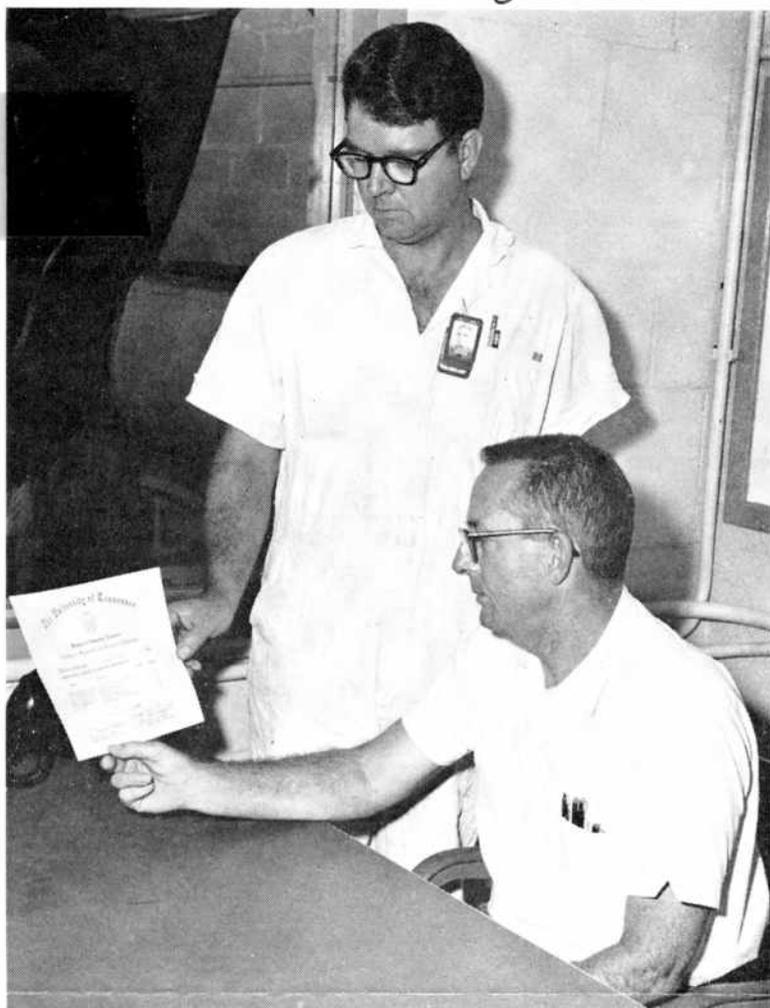


6-11124



PRESENTING A CERTIFICATE from the University of Tennessee to a recent graduate is Thomas H. Miller, Alloy Shop, seated. Receiving the certification in Industrial Engineering and Management, standing, is Richard M. Chapman.

Alloy's Chapman Makes Use Of Educational Assistance Program

6-11125



RICHARD M. CHAPMAN, Alloy Shop, is justly proud of his recently awarded certificate from the University of Tennessee. Many of the courses earned by Chapman were studied under the Educational Assistance Program.

Englishman Good At Calling Scores

Sir Bernard Lovell, British director of the Jodrell Bank radio astronomy observatory, recently stated that the United States was "at least 10 years behind the Soviets" in the space race. Sir Lovell failed to give his own country's standing in the race to the moon and beyond.

LOOK, MA . . . CAVITIES!

At least four untreated cavities exist in the average American's mouth.

Many Y-12ers are welcoming the coming Fall season as a time to drop the water skis, hiking boots, and tennis rackets and pick up the old books again. Regardless of whether the intended school work is to be college courses or high school subjects, employees are encouraged to broaden their training by taking studies that will be of assistance to themselves as well as Carbide.

The latest Y-12er to reap the benefits of continuing his education is Richard M. Chapman, Alloy Shop. He was recently awarded a certificate in Industrial Engineering from the University of Tennessee. He satisfactorily completed five courses in Industrial Engineering and Management, and a course in Statistics.

Chapman attended Bearden Grammar School, Central High School, and Stair Tech, all in Knoxville, as well as subscribing to courses from the International Correspondence School. He lives with his family on Route 2, Thornton Drive, Concord. He is married to the former Edith Daniels, and served in the United States Navy during World War II. Before coming to Y-12 on June 5, 1950, Chapman was employed by the Patent Button Company and the W. J. Savage Company, both in Knoxville. He attended various evening classes at U-T during the years 1954-58.

Presented Certificate
In special ceremonies last week his certificate was presented him by Thomas H. Miller of the Alloy Shop. "Mr. Chapman is to be commended for his interest in furthering his educational background," said Industrial Relations Superintendent George W. Flack.

Continued on Page 3

UT Grad School Sets Winter Curriculum

Registration Begins
Monday, September 17

The University of Tennessee Graduate School announces its Fall Quarter courses, which will be held in the Oak Ridge Institute of Nuclear Studies Training Building. Registration is set for Monday, September 17, from 6 until 9 p.m. ORINS' Training Building is located directly behind the Atomic Energy Commission's Administrative Building.

Actual classes will begin Thursday, September 20 and will continue through examinations Friday, December 14.

Courses offered in the fall curriculum are: Chemical Engineering 561. **Stagewise Mass Transfer Operations**; Chemistry 541. **Advanced Physical Chemistry: Classical Thermodynamics**; Chemistry 571. **Theoretical Inorganic Chemistry**.

Industrial Management courses offered are 501-2-3. **Master's Thesis**.

Mathematics courses for the fall quarter are 415. **Linear Algebra and Geometry**; 454 **Advanced Calculus**; 465. **Introduction to Mathematical Statistics**; and 591. **Elementary Topology**.

Engineering courses to be taught are Nuclear Engineering 591. **Advanced Nuclear Reactor Design**; and Metallurgical Engineering 571. **Advanced Physical Metallurgy**.

Physics courses included are 321. **Mechanics**; 371. **Introduction to Atomic and Nuclear Physics**; 451. **Atomic Physics Laboratory**; 521. **Advanced Modern Physics**; 561. **Mathematical Methods in Physics**; and 643b. **Advanced Topics in Quantum Theory: Nuclear Theory**.

If sufficient interest is evident it is possible that the Mathematics Department will offer a new course in Mathematical Statistics at Oak Ridge. Those interested in this course should inform the Graduate Office, at extension 4129.

Further information on the above courses, requirements, etc. may be had by telephoning the graduate school office.

Union Carbide Hosts Young German Engineers

Union Carbide Corporation recently held a seminar for visiting young West German engineers. The group, whose trip was sponsored by the Federal Republic of Germany and the Council for International Progress in Management, spent five weeks in the USA. The purpose of their trip was to study efficient employment development and the utilization of young engineers in this country. The group met with representatives of Union Carbide management, presided over by C. H. Hageman, vice president, in a seminar held on July 25 in Union Carbide's Building in New York City. The subjects included were: education of engineers; planning for recruiting in industry; introducing young engineers into careers; and how the young engineer achieves maximum performance.

RAMBLING WRECKS

In 1916 Georgia Tech played Cumberland University in a football game. It wasn't even close. Final score—Georgia Tech 222; Cumberland, 0.

Major Expansion Of Carbide's Liquid Gas Facilities Underway

Production of atmospheric gases will be more than doubled in a major expansion of air separation facilities at the Fontana, Calif., plant of Linde Company, division of Union Carbide Corporation, according to an announcement by Birny Mason Jr., corporation president.

Pipeline supply of high purity oxygen to Kaiser Steel Company's adjacent mill, currently running at 430 tons per day, will be boosted to 750 tons per day and an additional supply of 122 tons per day of high purity nitrogen will be installed. Facilities to produce Kaiser's additional requirements will be completed by July, 1963.

It was also announced that a 450-ton-per-day liquefied gas plant will soon supplement Fontana's current 340-ton-per-day output of liquid oxygen and liquid nitrogen to meet the mounting West Coast requirements of companies in the aerospace industry. Construction, under the direction of Kaiser engineers, is now under way and the new plant will be ready about November.

1,700 Ton Capacity

When all scheduled construction is completed, the Fontana complex will have a total capacity of nearly 1,700 tons per day of product, making it the largest industrial gas plant west of the Mississippi.

Robert F. Flood, president of Linde, stated that the scheduled expansion of high purity oxygen supply to Kaiser Steel Company is the third since 1956 and will make Kaiser one of the largest single-location users of oxygen in the steel industry. L-D basic oxygen converters and oxygen lances for open hearth furnaces will consume the bulk of the new supply; the balance will be used for various metallurgical and metalworking applications. The 122-ton-per-day supply of high purity nitrogen will be used to provide blanketing atmospheres for annealing operations.

NASA Demands Grow

The major market for liquefied gases produced at Fontana is the West Coast aerospace industry, whose requirements of liquid oxygen and nitrogen are growing rapidly as a result of stepped up programs by NASA and the military. Liquid oxygen is used as the oxidizer in practically all liquid-fueled rocket systems currently operational or under development. Static test firings of rocket engines consume about 95 per cent of the liquid oxygen used each day for such applications. Liquid nitrogen plays an important supporting role in aerospace research and development activities. It is used extensively for cold flow testing of cryogenic lines and other rocket engine components as well as for pressure testing of cryogenic fuel

Continued on Page 4

ASME Outlines Varied Programs For Season

The Oak Ridge Subsection of the American Society of Mechanical Engineers is planning a series of programs of interest to all members. The ASME programs for this year are outlined below.

September 13 — Social hour with refreshments. Two films will be shown. The films are, "Steel for the Ages," and "Tarpon Fishing Off the Coast of Florida."

October 11 — Dinner meeting with speaker, Robert Walker of the L. C. Hammock Company will speak on "Microfilm Card System for Engineering Drawing Storage, Control, and Reproduction."

November 8 — Ladies Night and Dinner Meeting. A NASA film "Friendship Seven" in color . . . the story of Col. John Glenn's space flight.

January 10 — Dinner Meeting with speaker, followed by a tour of Magnet Mills, Clinton. Speaker is L. N. Williams, Personnel Director of Magnet Mills.

February 8 and March 8 — Meetings are tentatively planned as dinner meetings with speakers, on "Lasers," and "High Energy Forming," respectively.

April 12 — Dinner meeting and student competition. Three mechanical engineering students from the University of Tennessee School of Engineering will compete in presentation of technical papers.

All meetings are scheduled for the second Thursday in the month. The executive committee of the Oak Ridge branch urges all members and visiting mechanical engineers to clip the above and place it for reference as a reminder for these forthcoming meetings.

Carbide Development Names Vice President

Joseph S. Whitaker has been appointed a vice president of Union Carbide Development Company, it was announced by R. E. Cornwell, president of this division of Union Carbide Corporation.

Dr. Whitaker joined Union Carbide in 1942 at the Bloomfield, N. J., laboratories of Union Carbide Plastics Company. He moved to the New York office in 1952 as a member of the company's new products marketing group. In 1956, he was appointed manager of patent licensing activities for the company. Dr. Whitaker has been with Union Carbide Development Company since 1960 as special assistant to the company's president.

He is a graduate of Emory University where he received the degrees of AB in 1933 and MS in 1934. He also has a PhD from Pennsylvania State University.

SAFETY SCOREBOARD

The Y-12 Plant Has
Operated
11 Days Or
323,000 Man-Hours
(Unofficial Estimate)
Without A Disabling
Injury
Through August 19
Phone 7755
For Daily Report
On Accident-Free Hours

The Bulletin

Published Weekly For The
Y-12 Employees Of
UNION CARBIDE
NUCLEAR COMPANY
Division of



UNION CARBIDE CORPORATION

JAMES A. YOUNG Editor

OFFICE

Post Office Box Y
Oak Ridge, Tenn.

Bldg. 9704-2 Room 149
Telephone 7109

Sheffield Son Leads Oliver Springs Class

To Major In Math
At Millsaps College



Jimmy Sheffield

Jimmy Sheffield, son of Mr. and Mrs. Edward L. Sheffield, Oliver Springs, was salutatorian at Oliver Springs High School this year. His father is in Y-12's Process Maintenance.

Jimmy carried a scholastic average of 95.02 for his four years of high school work. Co-captain of the Bobcats basketball team, he has been named to the All-District and Tri-County Conference teams. He also was outstanding in football.

The salutatorian served as president of his sophomore and junior classes. Other activities included Beta Club, Latin Club, Letterman's Club, and during his senior year he was named "Mr. Oliver Springs High School."

In the fall, Jimmy will enter Millsaps College, Jackson, Mississippi, where he plans to major in mathematics and play basketball for the college.



Get well wishes are sent the following Y-12 employees who were patients last week in the Oak Ridge Hospital.

Richard J. Luck, Product Processing; James M. Patterson, Machine Maintenance; Kenneth S. Whitehouse, Alpha Five Machine Shop; Cleon S. Hartman, Wage Standards; Willie E. Honeycutt, Guard Department; Walter M. Boatman, Research Services; Stanley L. Jamruz, Research Services; James H. McCulley, Research Services; Herbert A. Miller, Tool Department; Thomas R. Harvey, Statistical Services; Joseph E. Hannah, Product Processing; Glenn W. Howdyshell, General Field Shops; Clifford B. Russell, Graphite Shop; Harvey L. Garrett, Process Maintenance; Donald E. Parten, Special Mechanical Production; and Ernest R. Bailey, Utilities.



Heapa News this week, first in

UTILITIES AND SHIFT SUPERINTENDENTS
Vacationing in Charleston, W. Va. is **J. J. Miller** who also planned to take in a stay with his family at Cumberland State Park . . . **M. G. Crouch** took his family to the North Carolina coastal region, where the Crouches have beach property, complete with an oyster bed!

In a location unknown to fellow employees was vacationer **H. R. Cannon** . . . The entire section (and many other Y-12ers) were pleased to see **Lib Kilby** back at work, after her long stay on the ailing list. Lib surely was sorely missed around here . . . **E. E. Spradlen** left for vacation, but left no forwarding address.

Electronic brains can crack an enemy code in a matter of minutes, but can't do a thing for that code id one's head.

TECHNICAL

Radiation Safety clears in the news that **Rudy Pletz** is off on a two-week jaunt to Missouri . . . **Dixie Stinnett** is spending a few days vacation on Watts Bar Lake skiing and sunning . . . Get well wishes are sent to **Scott Sadler**, who is still on the ailing list . . . Word is that **J. D. Hall** is sporting a new T-bird nowadays.

MAINTENANCE

Leading off the news from Electrical is the sad word that **Rae Chapman**, girl reporter par excellence, is leaving Friday to wait on a visit from ole man Stork. Rae says she has enjoyed her journalistic efforts here and leaves her capable reporting job to **Jo Phelps**. (Rae's many suggestions have led to some of the top stories in The Bulletin, and best wishes go with her along with the thanks of the editorial staff!)

It seems that North Carolina has suddenly become an ideal vacation spot. **D. L. Moore** will be just "fishing around," **B. D. Grogan**, **G. T. Wellborn**, and **H. J. Tate** will be visiting friends and relatives over thataway . . . **H. J. Tate** chose north of North Carolina, namely Virginia, as a likely vacation spot.

Heading for the Peach State for a visit in Ray City, Atlanta, and Jekyll Island is **J. L. Young** . . . **G. E. Fisher** went "way down south" to Panama City, Fla. camping and roughing it out in general . . . **F. W. Atkinson** headed for the cooler climate to visit relatives in Johnstown, Pa. . . . **T. W. Baker** reports big plans to just stay around home and relax.

Vacationing in Alabama (without his banjo on his knee) is **H. T. Clark** . . . **Bruce Dyer** is almost ready to celebrate. The first of March he weighed 250 pounds, and he decided that was too much (it was!), so he decided to go on a diet and set as his goal 180. On August 6, he weighed 181½ pounds, so with a pound and a half to go everyone's pulling a "He Done It" party. That's what is called perseverance!



Up In The Trees!

This young lad is **Steve Wallace**, son of **A. T. Wallace**, Electrical. He is showing off the playhouse-work shop combination which pop built recently. It's wondered if Steve has the house all ready for the new arrival that he and "Dad" (and, of course, Mom, too) are awaiting.

Late word comes in that **J. H. Whidden** will be heading for Duke University to bring his fam-

ily home . . . his wife has been attending school there . . . **E. L. Hendrix** is another relaxing vacationer who plans to stay around home with a possible trip to the Smokies.

A wife is a person who can look in the top drawer and find her husband's socks when they weren't there to start with.

MECHANICAL OPERATIONS

The General Machine Shop is welcoming in newcomer **D. A. Hill** . . . not newcomer really, just transferred in . . . **J. D. Kirkpatrick** is going down to Atlanta for a few days for his vacation to visit friends . . . He will return and spent the rest of his time on the East Tennessee lakes fishing, along with **W. A. Gardner**, also vacationing . . . **Jack Conn** is dividing his vacation time between (or among) Huntsville, Ala., and Mammoth Cave, Ky. . . . **L. R. Brooks** plans to do a lot of skin-diving on his vacation in the cool, cool waters of East Tennessee. (Are there any Aquanauts in Y-12 that would like a story done on them?) . . . **J. W. Price** just spent his vacation at home.



Sheila Rae Gann

Little Sheila Rae Gann arrived in Oak Ridge Hospital, August 1, at 1:39 in the afternoon. Her grandfather, **C. W. Hawkins**, Beta Four, just couldn't resist bringing her picture in. He relates that her brother Jerry, who will be three in November, is just as excited as they all are over Sheila's arrival.

Other Beta Four news is that **H. E. Hammack** is a proud papa, as Jill Elaine arrived August 5, at Baptist Hospital, Knoxville. The Hammacks have a son, Jeff, seven years old. Little Jill weighed seven pounds, two ounces.

Vacationing in Alabama (without his banjo on his knee) is **H. T. Clark** . . . **Bruce Dyer** is almost ready to celebrate. The first of March he weighed 250 pounds, and he decided that was too much (it was!), so he decided to go on a diet and set as his goal 180. On August 6, he weighed 181½ pounds, so with a pound and a half to go everyone's pulling a "He Done It" party. That's what is called perseverance!

Ed Herrell was telling all about his solid white puppy but he said it was just a bit lazy because it didn't play like most puppies do. He took it to the vet and asked him to examine it and see just what ailed the little feller. The vet obliged and found that the dog was about nine years old! Instead of being a little white, lazy puppy, it was a tired, old gray dog!

Rolling reports **F. R. Norton** and family taking a leisurely trip to Roswell, N. Mex., to visit a son at Walker Air Force Base . . . **J. G. Hallau** is spending a week in Oak Ridge painting his house and a cabin on Watts Bar Lake . . . **Neal White** returned from a vacation, reporting a busy



PREWITT-BRATCHER

Mr. and Mrs. W. M. Bratcher, 114 West Holston Lane, Oak Ridge, announce the marriage of their daughter, Miss Billie Faye Bratcher, to Mr. Jerry Prewitt, Birmingham, Alabama. The wedding took place July 28, at Calvary Baptist Church, with the Reverend Fernde Robinson officiating.

The groom is the son of Mr. and Mrs. G. H. Prewitt, Birmingham. The bride's father is in Beta Four Maintenance.

For her wedding, the bride chose a gown of chantilly lace over satin with a scalloped neckline and long pointed sleeves. Her ballerina length veil fell from a tiara of seed pearls and sequins. She carried a white Bible centered with a white orchid. Serving as maid of honor was her sister, Miss Nina Bratcher. Her dress was mint green silk organza as was her veil. Her accessories were white and she carried a bouquet of large white daisies.

Attendants to the groom included Terry Joe Taylor, Birmingham, best man; Gary Williams and David Lewis, Oak Ridge, ushers.

Wedding music was presented by Bobby Murrah, Oak Ridge, organist. The altar was decorated with candelabra and baskets of gladioli and fern. The ceremony was by candlelight.

A reception followed honoring the couple at the bride's home.

The bride is a 1962 graduate of Oak Ridge High School. The groom is employed in Birmingham where the couple is now at home.

SAWYER-HENSLEY

Mr. and Mrs. Audley Lewis Sawyer were married August 9, at 3:55 p.m. in Loudon, Tennessee, with Mr. Ben Simpson, County Judge officiating. Mrs. Sawyer, the former Mary Ruth Hensley, is the daughter of Mrs. Walter L. Towle, and the late Mr. Towle, Knoxville, Tennessee.

The groom is the son of Mrs. Eliza J. Sawyer, and is employed in Y-12's Electrical Department.

Mrs. Helen Synder, sister of the bride, was the couple's only attendant. For her wedding the bride chose a two-piece navy blue dress with white trim.

The couple is at home at 3609 Reagan Avenue, Knoxville.

Production Control has vacations spilling over the news also . . . **Doris Sartelle** returned from a vacation in Winchester, Va., her hometown . . . **Guy Seaton** returned from a vacation of doing absolutely nothing . . . **Tommy Todd** moved his family from Paducah on his vacation (Welcome in, Todds!) . . . **Jim Burns** worked on his new home . . . **Jack Thomson** entertained his father and sister visiting from New York.

On to Virginia were **Bob Bass** and children, who planned also to return in time to spend a few days at Big Ridge . . . **Mozelle Kennedy** lolled around Myrtle Beach on her vacation . . . **Tom Norris** took his family to Daytona Beach . . . **Mike Shemanski** tripped around Pennsylvania, Virginia and Ohio . . . **Leo Scaff** and his family camped out on Watts Bar . . . **Greta Luallen** is spending a week getting her family ready for school. **Dick Holbrook** spent a day on the lake.

Elbert Lockhart attended a magicians' convention in Chattanooga . . . **Bill Stoddart** visited relatives in Kentucky, North Carolina and Georgia . . . **Toney Gable** vacationed in beautiful Miami . . . **Frank Winstead** took in Virginia Beach . . . **C. V. Taylor**

Continued on Page 4



Mrs. Jerry Prewitt



Mr. and Mrs. Audley L. Sawyer

Y-12ers Celebrating 15, 10 Year Anniversaries

Congratulations to the following Y-12ers who will observe 15 and 10-year anniversaries within the next few days.

15 YEARS

Gerald R. Guinn, A-2 Foundry, August 22.

James R. Cooter, Chemical, August 23.

Paul Y. Miller, Building, Grounds and Maintenance Shops, August 25.

Russell G. Lawler, Methods Evaluation, August 25.

Anna G. Dobbins, Metallurgical Development, August 26.

Frank W. Gallagher, Process Maintenance, August 27.

10 YEARS

Roy H. Stooksbury, Stores, August 22.

Tommy E. Verner, Research Services, August 25.

Kenneth R. Haeusler, Special Projects, August 25.

Carl L. Johnson, Production Inspection, August 25.

John M. Napier, Ceramics and Plastics Development, August 26.

Ardill Griffith, Laundry, August 28.

Acie L. Rainwater, Area Five Maintenance, August 28.

It's The Driver Not The Car . . .

It isn't the car that begins to whine, when forced to stop for an old sign—

IT'S THE DRIVER

It isn't the car that takes a drink, then quickly loses its power to think—

IT'S THE DRIVER

It isn't the car that fails to heed the dangers of reckless, discourteous speed—

IT'S THE DRIVER

It isn't the car that steps on the gas and causes an accident, trying to pass—

IT'S THE DRIVER

A car may be bent and twisted awry, but it isn't the car that will have to die—

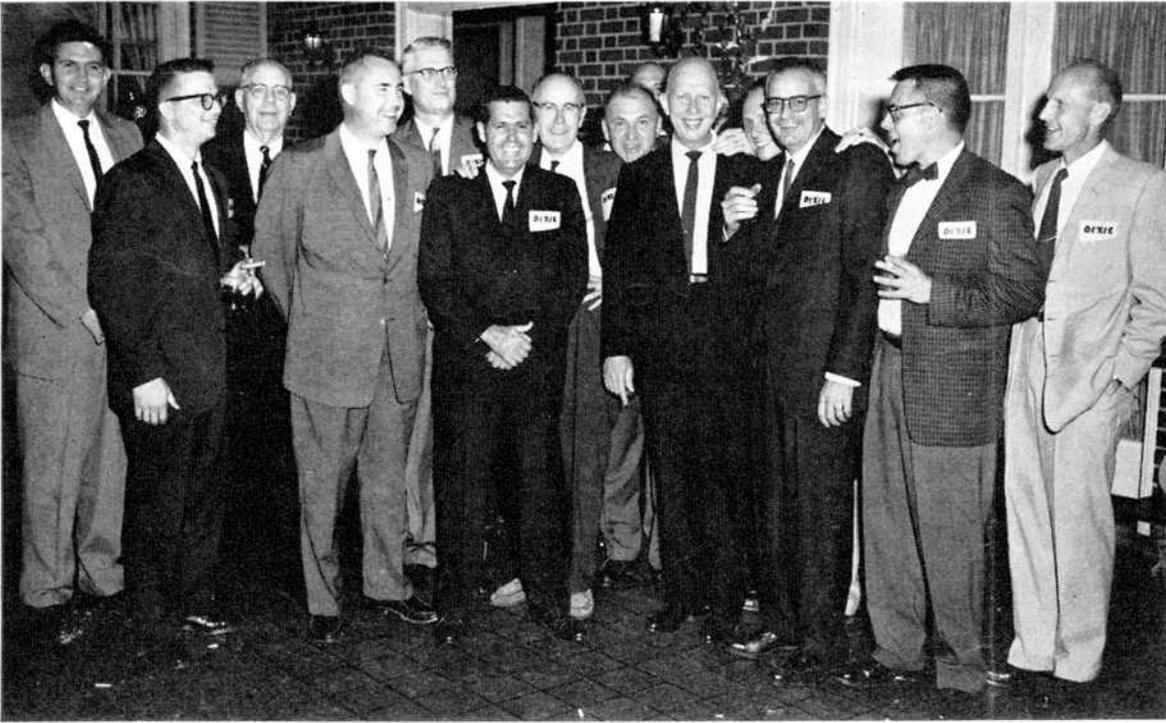
IT'S THE DRIVER!

—from The Baker Boy

MAN-SIZED MAID

In the average American home today, electricity does the work which would require the labor of 35 servants, working a 40-hour week each.

6-11132



CHEMICAL DIVISION LEADERS turned out en masse to say goodbye to their former superintendent R. A. "Dixie" Walker in a happy party held Thursday, August 9, at Deane Hill Country Club. Walker recently transferred to the Oak Ridge Gaseous Diffusion Plant. The excellent steak dinner was arranged by E. A. Pluhar, with his head between Walker in the center and Walt Cameron.

6-11135



ALL IN GOOD FUN the upper photo shows R. A. Walker receiving the caricature of himself from Y-12ers who gathered to bid him adieu recently in a dinner-party held at Deane Hill. At left is Neal Dow, and Emcee Jack Terrell looks over Walker's shoulders. In the lower photograph, from left are E. A. Pluhar, Jack Case, Neal Dow, Jack Terrell, Walker, Y-12 Superintendent Robert G. Jordan, Roy Williams, and George W. Flack.

Playhouse Sets Open House

Open House at the Oak Ridge Playhouse this week-end will introduce the organization to newcomers. The combination General Tryout-Social is set for Sunday, August 26, at 7:30 p.m. in the Playhouse on Jackson Square. The tryouts will include roles in all the five plays to be presented this season, ranging from Shakespearean tragedies, musicals, to psychological dramas.

A total of 86 roles are available for "Bad Seed," "The Great Sebastians," "Hamlet," "The Three-penny Opera," and "The Tenth Man." Men and women of all ages and types are required as well as singers and dancers for Weil's "Three-Penny Opera."

Specific tryouts for "Bad Seed" which opens the season in October will be held again on Monday, August 27. Tryouts for Rhoda, the eight-year-old girl around which the action revolves, will be held at 10 a.m. Monday, August 27. Adult role readings



WITH THE LAUGH on Dixie, part of the "honoree's" table is caught off-guard, during Jack Terrell's description of R. A. Walker's years in Y-12. Laughing hardest at himself is Walker at left and Supt. Jordan.

will be held at 8 p.m. that day also. Special tryout arrangements may be made by contacting Director Paul Ebert at the Playhouse. In the past many Y-12ers have been active in roles, as well as backstage operations of the Playhouse.

Alloy's Chapman

Continued from Page 1

Since the program began, hundreds of Y-12ers have earned more education through the Educational Assistance Program. Any employee who has been with Carbide at least six months or more is entitled to take advantage of the EAP benefits.

The courses in high school work, college courses, and various trade and correspondence schools are approved for these benefits. In the approved courses, the company pays one-half of the expenses which include tuition, lab fees, text books and necessary supplies.

An employee wishing to participate in the education assistance program should discuss the details with his supervisor who will advise him on the courses he

should consider, as well as the steps to reap benefits through educational assistance.

Gatlinburg Is Scene For Y-12 Golf Clash Saturday, All Carbide Set September 15

Y-12 golfers will wind up the season with two big events . . . the final Y-12 Tournament of the year, and the All Carbide Event set in September. Greensmen will gather Saturday, August 25, at Gatlinburg for the final plant tournament, teeing off at 7 a.m. Cart drawings and tee-off assignments have already been made for this contest.

Details of the All Carbide Tournament were run in last week's Bulletin. Deadline for filing the entry form below is Monday, September 10. Tee-off times for the All-Carbide will be arranged by the three recreation offices in Y-12, Oak Ridge National Laboratory and the Oak Ridge Gaseous Diffusion Plant. Winners in the All Carbide

clash will be determined on a medal play basis, with prizes in four different divisions. There is a variety of "gimmicks" for the tournament with "blind pars" and "hole-in-one" contests.

Entry is made by foursome only. After Recreation has determined tee-off times, the leader in each foursome will be notified by telephone of starting time. More information may be had concerning the All Carbide, by calling Bob Cantrell, telephone 7109.

Y-12 Tournament golfers are requested to appear at the tee-off mound at least 20 minutes before scheduled times. The Gatlinburg course, popular ever with Y-12 teemen, is expected to draw the usual record crowd.

Kentucky Wonders (Who Else?) Take Slo-Pitch League; Play-Offs For 2nd Place

Double Elimination Tournament Plans Will Be Announced By Recreation As Teams Fold Up

The Kentucky Wonders, from Oak Ridge Gaseous Diffusion Plant, have done it again. They cinched the title for the second half of league plays last week by defeating the Y-12 Atoms 9 to 1. They also wrapped up their claim on the first half of schedule play by their win over the Shifters of Y-12 11 to 5.

Monday Putt Loop At Half-Way Mark

Winstead-Collins Still Maintain Top Berth

The Monday Putt League for Y-12 miniature golfers played their third set of matches last week, in addition to a make-up game cancelled due to rain from the previous week. The make-up match saw Gene Boyd and Charlie Meyers trample Buddie Scott and Jerry Davis by 13 strokes.

Regular play last week saw Collins-Winstead continue their lead with a five stroke victory over Boyd-Meyers. Avis Collins had the only holes-in-one in the match on holes 13 and 14. Jim Cole and G. Roberts took Scott-Roberts to the cleaners to the tune of 16 strokes, with Buddie Scott acing hole number eight; Cole taking five, and Roberts having holes-in-one on 8, 9, and 10. Stout-Gamble defeated Brown-Youngblood by seven strokes. Gamble aced hole number 11 for the only ace.

League standings follow:

Team	W	L
Winstead-Collins	3	0
Myers-Boyd	2	1
Roberts-Cole	2	1
Gamble-Stout	2	1
Brown-Youngblood	0	3
Scott-Davis	0	3

Another first-half game got played last week as the ORGDP Codgers clipped the Y-12 E Wingers 13 to 12. The Codgers got hot on the home runs with Harrison and Keith knocking two and Whittlesey one. Hardin homered for the losing Codgers. Thus, these teams tied for second place in the first half of league play, and will have a single game play-off.

The winner of that game will take on Y-12's Shifters, who took second place the latter part of the league. This play-off will be the best of three games.

Wonders Beat Atoms

The Atoms and Kentucky Wonders played a make-up game last Monday, and the Atoms fell 9 to 1. Cothron and Casey were batteries for the losing Atoms while Fourman and Jones pitched and caught for the Wonders.

Tuesday's games at Pinewood saw the ORGDP champs, the Kentucky Wonders, flog the Y-12 Slip Sticks to the tune of 20 to 7. Rose homered for the losers, Neir for the winners. Y-12's Tabs clobbered ORGDP's Whiffers also Tuesday at Pinewood 9 to 4.

Y-12 Eagles Win

Jefferson's games Tuesday had Y-12's Eagles slip by the Shifters, also from Y-12 7 to 6. The Eagles had 15 hits, but suffered five miscues on the diamond, to the Shifters' eight hits and three errors. The ORGDP Codgers clipped Y-12's E Wingers 8 to 5, scoring 10 runs to the Winger's eight.

Thursday's regular games saw the Y-12 Slip Sticks slip by the ORGDP Fly Swatters 8 to 7; each team scoring 12 hits a piece. Rose and Febbo homered for the winning Sticks. Two Y-12 teams clashed also at Pinewood, as the Eagles tromped the Generals 19 to 6. Blanks and Fell were the winning batteries, while Law and Moneymaker did it for the losers.

Daws Homers Two

Y-12's Atoms defeated the ORGDP Whiffers 19 to 6 at Oakwood, as Jefferson field was being remodeled. Dary Daws had two homers for the only four-baggers of the game. The two Davises tripled for the winners, while Cook and Price tripled for the losing squad.

Remaining in the league are two games for the Generals . . . they are set to play the Tabs and Fly Swatters this week to wrap up final league play.

League standings follow:

Team	W	L
Kentucky Wonders	10	0
Shifters	8	2
Codgers	6	4
Atoms	5	4
E Wingers	5	5
Eagles	5	5
Fly Swatters	3	6
Generals	2	6
Whiffers	2	8
Slip Sticks	2	8

Almost Two Million Disabling Injuries

There were approximately 1.9 million disabling work injuries in the nation in 1961, according to the National Safety Council. (There were 16 in Y-12). Of the national total, 13,500 were fatal, while another 80,000 resulted in some permanent injury. Injuries most frequently were to the trunk, followed by thumb and finger injuries. On the average, trunk injuries are most costly, with arm, leg, and head injuries next in that order. Eye injuries are among the costliest permanent disabilities, while toe injuries are least costly.

ENTRY FORM

1962 ALL CARBIDE GOLF TOURNAMENT

GATLINBURG COUNTRY CLUB

September 15, 1962

Please enter the foursome, as listed below, in the All Carbide Golf Tournament, subject to the rules governing this event.

NAMES OF FOURSOME:

1. _____ 3. _____

2. _____ 4. _____

Signature of Member entering this foursome Phone No. _____

(Complete and send to: Recreation Dept., Bldg. 9704-2).

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

UNION CARBIDE NUCLEAR COMPANY
Division of
Union Carbide Corporation
Post Office Box Y
Oak Ridge, Tennessee
RETURN POSTAGE GUARANTEED

POSTMASTER: DO NOT FORWARD. IF ADDRESSEE HAS MOVED, RETURN TO SENDER IMMEDIATELY.

Y-12ers Keep Hold In Summer Skeeters

Pitt, Case And Welfare Are Tops

Y-12ers continue to dominate the Summer Skeet Leagues, in both numbers and quality of shooting. In last week's firings scratch highers were split three ways as Don Pitt, Jack Case and Fred Welfare all took 24/25 scores. Welfare took the high handicap score of the day with his 296.842/300.



Don Pitt

Pitt still leads in overall scratch score with 137. Case follows closely behind with 135. He is trailed by Ken Bahler, ORGDP, with 131. After that comes Finis Patton with 128. Bill Sahr continues his 1744.238 handicap lead, followed by "Red" Wiest with 1735.252, and Jack Case with 1733.036.

Scratch standings follow:

Don Pitt, Y-12	137
Jack Case, Y-12	135
Ken Bahler, ORGDP	131
F. S. Patton, Y-12	128
Fred Welfare, Y-12	127
R. H. McNabb, Y-12	123
Bill Sahr, Y-12	123
Bill Davy, ORGDP	120
M. C. Wiest, Y-12	119
Charlie Asmanes, Y-12	119
B. L. Powers, Y-12	114
Jack Steward, Y-12	107
Jim Patterson, Y-12	106
J. P. Murray, UCNC	103
*J. A. Swartout, ORNL	72
*E. E. Kennedy, Y-12	68
*Avis Collins, Y-12	40
*W. E. Brundage, ORNL	38

Handicap standings follow:

Bill Sahr, Y-12	1744.238
M. C. Wiest, Y-12	1735.252
Jack Case, Y-12	1733.036
Charlie Asmanes, Y-12	1730.544
Don Pitt, Y-12	1725.660
R. H. McNabb, Y-12	1719.215
Fred Welfare, Y-12	1719.102
F. S. Patton, Y-12	1718.372
J. P. Murray, UCNC	1714.483
B. L. Powers, Y-12	1708.383
Bill Davy, ORGDP	1706.876
Jim Patterson, Y-12	1705.381
Jack Steward, Y-12	1703.495
K. W. Bahler, ORGDP	1685.057
*J. A. Swartout, ORNL	1151.909
*E. E. Kennedy, Y-12	1133.131
*Avis Collins, Y-12	573.552
*W. E. Brundage, ORNL	554.452

ORNL's Radioisotope Lab Now In Operation

Operations are now underway in Oak Ridge National Laboratory's radioisotope development laboratory. The center was established for conducting programs of basic and advanced research in radioisotopes technology, and to serve as a focal point for national research and development in the radioisotope field. Within the building are five modern laboratories in which radioactive tracer work can be accomplished; four heavily shielded cells for experiments with large amounts of radioactivity; auxiliary space for chemical engineering work; and personnel offices.

RELATIVE SIZE

The size of a planet determines its rotating speed in orbit, and the distance from its sun determines its forward speed.

Red Team Leads Archery League

Six teams vie in the All Carbide Archery League with Y-12ers on the Red, Blue, Black, White and Green teams. F. L. Deal and Gene Hicks are Robin Hoods on the Red team; H. Weissberg on Blue; V. Reece on Black, R. J. Nuspliger on White and Bob Anders on Green. Only the Gold team is made up of archers from the other two plants.

In the 15th match last week, the Gold team took a 578.635 handicap total score, while the Red team held a 455 scratch tops. High individuals were: F. E. Lynch, with 291.555 handicap score; and Bill Bardill, with a 237 scratch.

Scratch standings follow:

Team	Points
Red	35
Blue	23 1/2
Green	22
Gold	16 1/2
White	16 1/2
Black	12 1/2

Handicap standings follow:

Team	Points
Gold	34
Blue	25
Green	25
Red	17
White	13
Black	12

Akers-Sinclair Are Putt-Putt Top Aces

Upsets Keep Other Golfers Interested

The Y-12 Putt Putt League got a make-up game in last week, as well as most of its regularly scheduled sets. The Akers-Sinclair, Kendrick-Seivers combat was played with Akers-Sinclair continuing their lead in the league by taking the match by three strokes. Everybody got in on the hole-in-one act, Bill Akers taking three on holes two, 12 and 14; Bill Sinclair on hole one, Kendrick on seven, and Sievers on two and seven.

Regularly scheduled games featured Ryder-Wyatt taking Cusman-Gilliland by 16 strokes, with Gail Gilliland taking the only ace of the game on hole eight. Waddle-Campbell (with J. Markland substituting for Campbell) racked Isham-Boswell by three strokes, despite Jo Ann Isham's three holes-in-one, on holes two, six and seven. Mark scored an ace on 14, while Virginia Boswell took one on 11, and Waddle scored one on two. Sinclair-Akers continued their unblotted record by trimming Massey-Bishop (with Athala Markland substituting for Bishop) by seven strokes. Aces were taken by Athala on two and Sinclair on one.

Cantrell-Young upset Kendrick-Sievers by five strokes. Bob Cantrell took aces on holes one and 14, while Jim Young scored them on two, 13 and 14. Sievers took a bull's-eye on six.

League standings follow:

Team	W	L
Akers-Sinclair	5	0
Hines-Pearson	4	0
Wyatt-Ryder	4	1
Bishop-Massey	3	2
Porter-Harte	2	2
Young-Cantrell	2	3
Campbell-Waddle	2	3
Kendrick-Sievers	1	4
Cusman-Gilliland	1	4
Isham-Boswell	0	5



Continued From Page 2
lor and family camped at Lake Arrowhead, N. C. . . . **Charlie Myers** spent his time at home in Oak Ridge . . . **O. C. Willard** spent some time camping and some at home in Knoxville.

Military servicing it in Wisconsin is **Don Lanham** . . . Congratulations to **Eddie Maeyens** on becoming a shy grandfather . . . Good luck to "**Red**" **Wiest** in his new job in Special Projects . . . Folks around Production Planning are going to miss him . . . Get well and stay well wishes are offered to little **Tracy Parker** (**Lucy Parker's** little son) who at the age of five months had a stay in the hospital.

Forming is sending get well wishes to **T. M. Wicker** . . . **R. D. Seagren** and his family vacationed in the Daytona Beach, Florida area.

To cure a man of stuttering, just call him "long distance" . . . collect, that is.

INDUSTRIAL RELATIONS



Mickey Campbell

Down in the Fire and Guard Department faithful **Liz Campbell** has contributed her fair share of baby, dog, and general interest pictures. Not once has she sent in one of her own bambino, but it looks as if her "baby" is not such a baby after all. Here's little Mickey, recently camping out, with a big catch of rainbow trout he caught all by himself up in Tellico's North River. Mickey has just turned 11, and it looks as if he's going to be a real outdoorsman.

The F&G Department is welcoming back **E. R. Johnson** after his successful bout with ailments . . . Get well wishes are sent to **W. E. "Little Red" Honeycutt** over in Oak Ridge Hospital . . . **W. M. Boucher** is spending his vacation time fishing in Fontana Lake . . .

Benefit Plans reports **Art Hines** on vacation last week, taking the missus, Lee and Jimmy up to the Smokies for a few days (bet he rode the Rebel Railroad again . . . says the kids love it. That's a pretty good excuse for getting on it, don't you think?) . . . **Carol Houser** is vacationing in Florida this week, welcoming Jerry out of the Air National Guard . . . Marcia says, "I went along, too." Folks are going to miss Carol as she transfers out soon.

Benefits Plans welcomes into its midst **Lucille Spence**, who came down recently from the Purchasing Office.

A lot of the world's problems would be solved if husbands showed the same patience waiting for the little woman as they do waiting for a fish to bite!

FINANCE AND MATERIALS

Property passes out word that **Noah Ensor** has been enjoying a visit from his brother, Raymond, and family from Philadelphia, Pa. A recent outing to Mt. Mitchell, N. C. helped entertain the folks (the Ensors as well!) . . . **Peggy Ledford** vacationed at her home in Karns last week where she enjoyed just taking it easy



A SHIFTERS SHOW OFF their prize winners, or at least a part of them, at their picnic held last month at Concord Park. The A Shift Recreation Group is setting another big feed at Cove Lake Park for next Wednesday, August 29 . . . with festivities to begin at 2 p.m.

A Shift Hopes For Repeat Of July Crowds At Picnic

To eat bread and cake outdoors . . . "stimulates the mind" according to Oliver Goldsmith's famous diary. A Shift folks apparently go along with Mr. Goldsmith. After their successful picnic at Concord, July 12, they are at it again. More than 300 guests showed up for their big affair in July.

Next Wednesday, August 29, A Shift plans another hoe-down, this time at Cove Lake. Games and recreation are slated to begin at 2 p.m. Food lines will begin forming at 4:30. This will give Campbell Countians an opportunity to arrive after the children

are out of school. The main course for the feed is announced as "barbecued ham," with all the trimmings that go with this southern dish. Each family is asked to bring a dessert or a covered dish.

Several attractive drawing prizes will be given to lucky ticket holders and a host of game prizes will be awarded. All Y-12 families are invited to the shindig. All "A" Shift recreation committeemen have tickets, and all Y-12 families are invited to the big party. With fair skies next Wednesday promises to be a repeat of July's big, fun crowd.

Major Expansion

Continued From Page 1
tanks in missiles and static test stands. The cryogenic refrigeration of environmental test chambers used to simulate the conditions of outer space is also provided by ultra-cold (-320° F.) liquid nitrogen.

Other California Plants

Fontana is one of six Linde plants serving the aerospace industry on the West Coast. Liquid oxygen and nitrogen are also produced in a 340-ton-per-day plant at Pittsburg, Calif., and in two smaller facilities at Berkeley and Los Angeles. Liquid hydrogen has been supplied since mid 1960 from Linde's six-ton-per-day plant at Ontario, only a few hundred yards from Fontana. Construction of a third, 60-ton-per-day liquid hydrogen plant at Sacramento, Calif., is scheduled to begin shortly.

Including a recently announced expansion at Essington, Pa., and others firmly planned by Linde, the company will add more than 1,300 tons per day of new liquid capacity, bringing its total to more than 5,000 tons per day.

To serve the steel, chemical, and aerospace industries, the company maintains a nationwide network of liquid oxygen, nitrogen, and argon production facilities that includes 17 plants in 12 states with distribution facilities at more than 80 other strategic locations.

with son Jeff and daughter Bunny.

Plant Records has **Evelyn Crouse** entertaining in a big way. Her brother and family came in from Taft, Calif., and her sister and family from Raleigh, N. C. came for a visit. Then her mother came also from McMinnville, Tenn.

Let's take our stale jokes and get outta here!

PAY OFF THAT MORTGAGE

In a stunt to raise money to repay a loan due on her Texas ranch, Mrs. Anna Edson Taylor went over Niagara Falls in a barrel in 1901, to become the first person to survive such an attempt.



Will alternate days driving from Clinton to East Portal, straight day. Clyde Brewer, plant phone 7-8095, home phone Clinton 457-2718.

Two riders wanted to New York City, leaving Oak Ridge September 1. Charles Jonas, home phone Oak Ridge 483-9103, plant phone 6-1541, extension 346.

Riders wanted from Emory Gap, South Harriman, Harriman, or Blair to West or Bear Creek Portal, straight day. R. W. Curtis, plant phone 7-8465, home phone Harriman 882-9291.

Car pool member wanted from Norwood section, Knoxville, to Central or North Portal, straight day. G. S. Dykeman, plant phone 7507, home phone Knoxville 689-4184, or L. Davis, plant phone 7735, home phone Knoxville 687-2666.

Riders wanted from three miles north of Clinton, on 25W, through Clinton, to North Portal, straight day. L. E. Abrams, plant phone 7696, home phone Clinton 457-2799.

Ride wanted, or will join car pool from Dutch Valley Road, Fountain City, to any portal, E Shift. Joe Campbell, plant phone 7-8346, home phone Knoxville 687-2319.

Car pool members wanted from Emory Heights, Oak Ridge to Bear Creek Portal, straight day. T. E. Todd, plant phone 7-8966, home phone Oak Ridge 483-4582.

Two car pool members wanted from University of Tennessee section, Knoxville to any portal, straight day. Jerry Westbrook, plant phone 7768, home phone Knoxville 524-7072.

ANSWER TO QUOTE

The famous greeting, "Doctor Livingston, I presume," is known by any school child as the first exchange between Stanley and Livingston in dark Africa. The rarely known answer (by Livingston) was "Just in time for coffee, Stanley."