

Paul Long, Physical Testing, Earns Listing In South, Southwest "Who's Who"

Paul J. Long, Metallurgical Services Laboratory in Y-12's Physical Testing, has been chosen for a listing in "Who's Who in the South and Southwest."

Long, a native of Tellico Plain, Paul has been in Y-12 for the past 16 and one-half years, in work related to the application of the principles of physics and mathematics to nondestructive testing and materials analysis.

A veteran of the Air Force, Long served from 1945 until 1946. He is a member of the American Physical Society, the Society of Nondestructive Testing (a charter member of the Oak Ridge Chapter, and a member of the board of directors) . . . and a member of the American Association for the Advancement of Science and has contributed several articles to professional journals.

Long has a myriad of hobbies and interests. He paints, and his works have been displayed in the Dulin Gallery of Art, Knoxville. Knoxville and Oak Ridge side-walk shows have also shown his work, and he participates in the annual Lenoir City Art Festival each year in Lenoir City.

He has written articles, poems on numerous subjects, most of which are unpublished, he states. One article, "The Art Value in Poor Photographs," got published after Long took up photography,



Paul J. Long

decided his pictures were no good, then used them in a short article.

Long is a graduate of Tennessee Technological University, and has completed graduate work at the University of Tennessee. He is a graduate of the Famous Artists School, and has studied locally under Ted Burnett and Kermit Ewing.

Mrs. Long is the former Willa Mae Williams, whom he married in 1952. There are two sons, David Paul and Gregory Lessel and a daughter Susan Gayle. The Long home is at 106 Evans Lane, Oak Ridge.

A miniature golf course in downtown Oak Ridge was developed and operated for a while by the talented Y-12er.

Long's writing efforts have 'covered the water-front' in subjects from politics to unidentified flying objects.

Food & Drug Man To Speak To ACS

Dr. E. O. Haenni, U. S. Food and Drug Administration, will speak on "Complementary Instrumental Techniques in Trace Analysis" at the coming meeting of the Analytical Group of the East Tennessee Section of the American Chemical Society. This meeting will be held at 8:15 p.m. tomorrow, Thursday, October 26, in Room 18 of the ORAU Training Building.

Although Dr. Haenni received his doctorate in 1940, he has been working in the Food and Drug Administration since 1934. He is now Chief of the Additives and Instrumentation Branch of its Division of Food Chemistry; he has two public service patents and thirty publications in this field.

In his talk, Dr. Haenni will tell of the many special techniques which must be used to isolate and identify traces of contaminants. These may be food additives, pesticides or their impurities, metabolic or other alteration products, or natural food contaminants.

Certified refreshments will be served after the talk.

ASTME Will Discuss Education At Meeting

The Oak Ridge Subsection of the American Society of Mechanical Engineers will discuss "The Role of ASME in Continuing Education" at its meeting tomorrow, Thursday, October 26. This will be a panel-type discussion with ample opportunity for comments from all persons attending.

The meeting is set at the Elks' Club, Arkansas Avenue, Oak Ridge, with a social hour beginning at 7:30 p.m. and the program at 8:15 p.m.

United Fund Late Reports Show Y-12 Giving Increase

With reports ending October 20, and 48 percent of pledge cards returned, Y-12ers are giving a thumping \$50,811 thus far in United Fund money. This rounds out to an average of \$22.43 per person thus far! And two-thirds of the goal set for the plant has been attained. (Y-12ers averaged \$16.34 in per capita giving last year.)

Compared to the other two Oak Ridge Operations plants, Y-12 now leads the field. With 60 percent of their returns in, the Oak Ridge National Laboratory shows a total of \$61,017 . . . or an average of \$19.15 per employee . . . and the Oak Ridge Gaseous Diffusion Plant shows a total of \$25,997 . . . with 72 percent of employees reporting in . . . for an average of \$18.32 per capita.

The Accounting and Budget Division is the only Y-12 division reporting completely thus far . . . with 100 percent participation . . . and all employees giving their 'needed share' or more.

The Development Division is 'almost there' with 95 percent of returns in . . . and 96 percent of the goal reached.

The bulk of Y-12's increased giving this year, as usual, goes to Anderson County United Fund. A total of \$28,998 has been pledged thus far for Anderson; \$14,107, for Knox; \$4,455 for Roane; and \$1,125 for Loudon.

The Y-12 employee United Fund drive is the only fund collection sanctioned in the plant. It is made on an annual basis . . . and employees may pledge through payroll deductions gifts to any one of the four counties participating in the drive. Cash

contributions may be accepted also . . . and many have come in. Easy payroll giving, however, makes contributions hardly noticeable when they are scattered over a 12-month period. And thus, regular checks are mailed to each of the county United Funds.

Happy United Fund solicitors were optimistic over last week's report. It shows increases in all divisions and departments. And, while the average giving may drop somewhat as final reports come in, workers believe that this year the plant will reach an all-time high in their giving.

Union officials are assisting in the drive by soliciting their members of the Atomic Trades and Labor Council and its affiliated local unions.

C. E. Robinson, president of the ATLC, AFL-CIO, is coordinating these efforts for Y-12, acting as general chairman. Solicitors in the Maintenance Division include W. R. Jones, F. E. Clevenger, P. A. Cuthbertson, A. D. Cotton, and R. M. Roark . . . with the general efforts being coordinated in the division by C. F. Jenkins, chief steward.

In Utilities, it is R. B. Amos; and John Welch is conducting the United Fund efforts in Materials and Services. J. A. Lane is heading the drive among machinists in the Assembly, Fabrication, and Technical Divisions. F. K. Claibough is acting as chief solicitor in the General Shops, and R. H. McNabb in Metal Preparation.

Howard McClellan, Cafeteria; and G. I. Davis, Fire Department, are coordinating the union's efforts in Industrial Relations and the Plant Shift Superintendents Divisions respectively.

C. C. Hopkins, who is heading the Y-12 employees United Fund drive for the entire plant, praised all solicitors in their dedicate efforts recently. "Man to man talk is the best way to get the United Fund story across," he stated. "These efforts are generally pushing the drive in Y-12 to its ultimate."

Continued on Page 4

Standard Time Set For Return Sunday

Daylight Saving Time really does die this Sunday! Eastern Standard Time will begin at 2 a.m. Sunday, October 29. (The Bulletin tried to give an earlier demise to the 'summer hours' but didn't get away with it!)

In other words, at 2 a.m. Sunday morning, it becomes 1 a.m. So, Y-12ers should run their clocks back an hour before retiring Saturday night . . . and thus they'll be in style and on time when they arise Sunday morn.

Wisconsin's Pondrom Is Physics Seminar Guest

Lee G. Pondrom, University of Wisconsin, Madison, will discuss "Time Reversal in p-p Scattering," at this week's Physics Division Seminar.

The seminar is set for Friday, October 27, at 3:15 p.m. in the Central Auditorium of ORNL's 4500 building.

SAFETY SCOREBOARD

The Y-12 Plant Has Operated 24 Days Or 708,000 Man-Hours (Unofficial Estimate) Through October 22 Without a Disabling Injury Safety At Home At Work, At Play



UNION CARBIDE CORPORATION endorses Anderson County's United Fund with a \$10,150 check. Dr. C. E. Larson, president of the Nuclear Division, right, presents the check to F. O. Christie, Anderson County's United Fund Drive Chairman, and H. F. McDuffie, UCC's United Appeal chairman. In presenting the check, Dr. Larson said, "Union Carbide is happy to participate again in this united community-wide effort, where one gift supports so many agencies essential to the welfare of Oak Ridge and Anderson County."

Honor Roll

Congratulations to the following departments who have reported 100 percent participation in the United Fund. This means every person gave. Congratulations, again!

- Maintenance Administration
- Safety Department
- Plant Records Department
- Process Analysis
- Engineering Mechanics
- Environment Control Engineering
- Electrical Engineering
- Industrial Relations Administration
- Publications
- Training Department
- Labor Relations
- Benefit Plans
- Employment
- Traffic Department
- Cashier & Travel
- Tool Procurement
- Accounting & Budget
- Development Operations
- Quality Assurance
- Wage Standards, Personnel Records

The Bulletin

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



NUCLEAR DIVISION

JAMES A. YOUNG *Editor*



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The bright days of October give way to the chill of November's 'frosty morns.' Giving way to time also are several Y-12ers, observing important 'birthdays' with Union Carbide Corporation. Congratulations.

25 YEARS

Alexander Varlan, Product Engineering, October 26.

20 YEARS

James R. Martin, Chemical Services, October 27.

Glynn A. White, Special Services, October 29.

15 YEARS

Cleo Sideris, Development Operations, October 27.

10 YEARS

Frank B. McDonald Jr., General Shop Job Liaison, October 28.

Clayton B. Tolliver, Engineering Mechanics, October 28.

Knox's United Fund Goal Over \$1 Million

The Knox County United Fund goal has been set at \$1,211,958 . . . an increase of nine percent over the previous year. The 33 United



Mrs. Wayne Nelson

NELSON—ST. GERMAIN

Miss Debra St. Germain and Mr. Wayne Nelson were married Friday, September 15. The bride is employed at Ford Motors, Dearborn, and the groom is employed in the Engineering Division and on Ford's Industrial Relations staff.

Wayne is a graduate of Clinton High School and received his B.S. degree from Tennessee Technological University and his M.B.S. from Memphis State. His father, J. C. Nelson, is in Y-12's Radiation Safety Department.

The couple is residing in Dearborn.

Fund agencies and the Knox Chapter of the American Red Cross serve many areas in which Y-12ers live. Knox County is one of the four counties to which employees can contribute through payroll deductions.

Your full cooperation will make security here the best in the USA.

True 'Stalag' Story Unveiled By Y-12er Who Escaped German POW Camp In W.W. II

A lot of attention has been focused lately on the mid-40's . . . and memories of the good old days, when Oak Ridge first came into being.

Down in Research Services, there's a Y-12er that can give you a story or two . . . much more interesting than "Hogan's Heroes" or "Stalag 17."

More interesting, possibly, because they are true. The Bulletin owes special thanks to Calvin Lunsford, also of Research Services, for ferreting out the facts for us, and giving details on this fascinating story.

Don T. Abernathy . . . name, rank and serial number.

And so it was, Sergeant . . . serial number 141-588-54, and that was what the Germans got out of the Y-12er.

He related the following story to Lunsford recently for the Loudon County Herald.

A 'Normal' Mission

"On February 25, 1944, we set out on what had seemed to be a normal bombing mission, if any of these bombing missions could be called normal. Our destination was to Rigginsburg, Germany. We had been airborne about two hours and were flying over the Yugoslavian border into German territory, the time was around nine o'clock.

"Suddenly, as was always the way they came, we found our plane surrounded by German fighter craft, and ack-ack (anti-aircraft fire). We somehow managed to evade the fighter planes but with the ack-ack our luck ran out. Suddenly it happened, we were hit. Hit hard. Our plane was a B-24 bomber which had been dubbed "Flying Coffin" because of its center-located gas tanks which if ever hit would catch on fire. We were on fire, the ack-ack had found its mark. Our crew consisted of 10 men, but only five survived.

Boots Trap Shell

"When we got hit I was in the forward gunner compartment. One of the shells which failed



DON ABERNATHY, RESEARCH SERVICES, shows his wife Faye his "Stalag" dog tags . . . those issued to him while he was a German prisoner during World War II. Don's interesting escape from a POW camp was the subject of a recent article in the Loudon

to explode came through the fuselage and in between my feet. I couldn't get them out so I hurriedly loosened my flight boots and left them with the shell jammed between them. The compartment I was in was too small to wear a parachute so after getting myself free, I got out of the compartment and grabbed my chute. When it opened, I found it to be full of holes from the ack-ack. But it still held together and brought me safely to the ground, and into some experiences which I will long remember.

"Upon reaching the ground in German territory we were picked up by the underground and hidden in a small hotel. But two days later the Germans got word of our presence and came. They also took the persons who were protecting us. Where? We never knew. We were loaded into another truck and taken away and put in solitary for two weeks. We were interrogated frequently, and had only bread and water the full two weeks. From here we were loaded on cattle cars and hauled to Lithuania and placed in Stalag Uft Number Six.

Meager Diet

"From here we could hear the Russian guns which seemed to come a little closer each day. This made it necessary for the Germans to move us out. This time we were loaded on boats and moved to Norger, landed and marched to another German prison camp Stalag Number Three, where we stayed until fall. Our food consisted solely of a diet of cabbage and potatoes.

"As the Russians came closer each time, we would be moved again. Our food, what little it was, was boiled potatoes that the Germans would get from farmers as we moved along the German countryside. After a while, we no longer got even the potatoes, and knowing we would eventually starve, I felt that there was no alternative but to try and escape.

"I did escape successfully, then I began my long and tiresome walk across Germany eating what

I could get my hands on here and there. I walked and walked, covering over 500 miles on foot which was completely across Germany.

Captured Again!

"As I neared Allied territory I was recaptured by a German soldier and a farmer who was an ex-soldier. After a short period of time, they let me go and shortly thereafter I reached Allied territory."

Getting his discharge in 1945, Don returned to Tennessee and was employed in Tellico Plains in the concrete business. He rejoined the Air Force in 1947 and served his second hitch, until 1950, with the Strategic Air Command. His bomber group in SAC received a presidential citation for its outstanding performance and later Abernathy took his honorable discharge from the Air Force.

A native of Murphy, North Carolina, Abernathy spent most of his youth in the peaceful valleys around Tellico Plains.

His war experiences proved to be a far cry from the life he had known as a boy on Coker Creek.

Came Here In 1953

He worked briefly with the Alcoa Aluminum Company, Du Pont, in Augusta, Georgia; and Maxon Construction Company, in Oak Ridge, before coming to Y-12 in November of 1953.

The Abernathys live at 1127 Huffland Drive, Loudon, and are active members of the Blairland Baptist Church.

They have a daughter, Ramona who recently graduated from the University of Tennessee, and a son David, attending school at Loudon, and playing football on the Redskin team.

Abernathy is in Y-12's Research Services.

But don't ask him for a war story. Many of his experiences are painful to recall . . . and besides, he feels he's lucky to be alive. Thanks to the perserverance and resiliency of youth, he came through some rather harrowing experiences.



OAK RIDGE'S NAVAL RESERVE RESEARCH COMPANY recently placed first in the Sixth Naval District's annual competition for general excellence and proficiency during fiscal 1967. This is the second consecutive year the local unit has won the award. From left, Lt. Cmdr. W. C. McWhorter, Nuclear Science Seminar chairman; Lt. J. A. Murray, executive officers; Lt. Cmdr. W. J. Leonard, unit commander during fiscal 1967; Cmdr. Burl Gilliland, group commander of Staff Unit 6-11 making the award presentation; Lt. Cmdr. S. G. Campbell, new unit commander for 1968; and Lt. Cmdr. J. L. Redford, new executive officer. Cmdrs. McWhorter and Campbell are in Y-12's Chemical Engineering Development and Metallurgical Development respectively.

Rollers Hit Peak Stride On Alleys

The Hits & Misses kept their lead in the Mixed Bowling League last week with a three-point win over the Mustangs. Also taking three it was the Goofers over the Alley Cats, and posting three and one-half points, the Rollers over the Twisters. The Roses 'N Thorns and McSprays shared two points each.

Lou Sahr, Twisters, posted a 194 scratch game . . . and Barbara Hackett, Roses 'N Thorns, took the rest of the honors . . . handicap single of 219 . . . series of 490 scratch, 634 handicap. Loyd Spray, McSprays, rolled singles of 211 scratch, 249 handicap . . . series of 554 and 668!

The Rollers rolled over board honors all the way. They posted singles of 658 scratch, 812 handicap . . . and series of 1822 scratch, 2314 handicap.

League standings follow:

Team	W	L
Hits & Misses	20	8
Roses 'N Thorns	16	12
Goofers	15	13
Rollers	14½	13½
Alley Cats	14	14
Mustangs	13	15
McSprays	13	15
Twisters	6½	21½



MIKE JOHNSON . . . LITTLE BOY . . . big fish. That's a giant large-mouth bass grand-pops caught recently. The fish was landed by J. R. Cooter, Mike's grand-father, Y-12's H-1 Foundry. Mike's dad, Jack, is in Y-12's Physical Testing. The big fish was landed near the Skimmer Dam on Watts Bar Lake . . . falling victim to a minnow.

Girls' Physical Fitness Classes Set To Open

The Recreation Department announces the start-up of physical fitness classes for females . . . each Monday from 7:30 until 9 p.m. in the Girls' Gym at the Oak Ridge High School.

All female employees and wives of employees are eligible to participate in the gymnastics and calisthenics. A trained instructor is on hand.

That's Monday . . . from 7:30 until 9.

Men may participate in the physical fitness classes on Tuesdays and Thursdays.

LETTERS WE NEVER READ . . . When will they ever learn? Junk mail that begins, "You may have already won" . . . hold our interest just about that far.

Leagues are now forming. Call Recreation, 3-7109 if you have a team . . . or want to play on one.

Spears Rolls Hi In Classic Alley

Opponents moved up on the leaders in the Classic Bowling League last week as the Markers marked three at the expense of the Rebels and the All Stars took four from the Rippers. The Swingsters took three from the Splinters, the Tigers did likewise by the Bumpers. The Smelters smashed the Has Beens and the Cubs took care of the Screwballs. The Playboys also put three over on the Eagles.

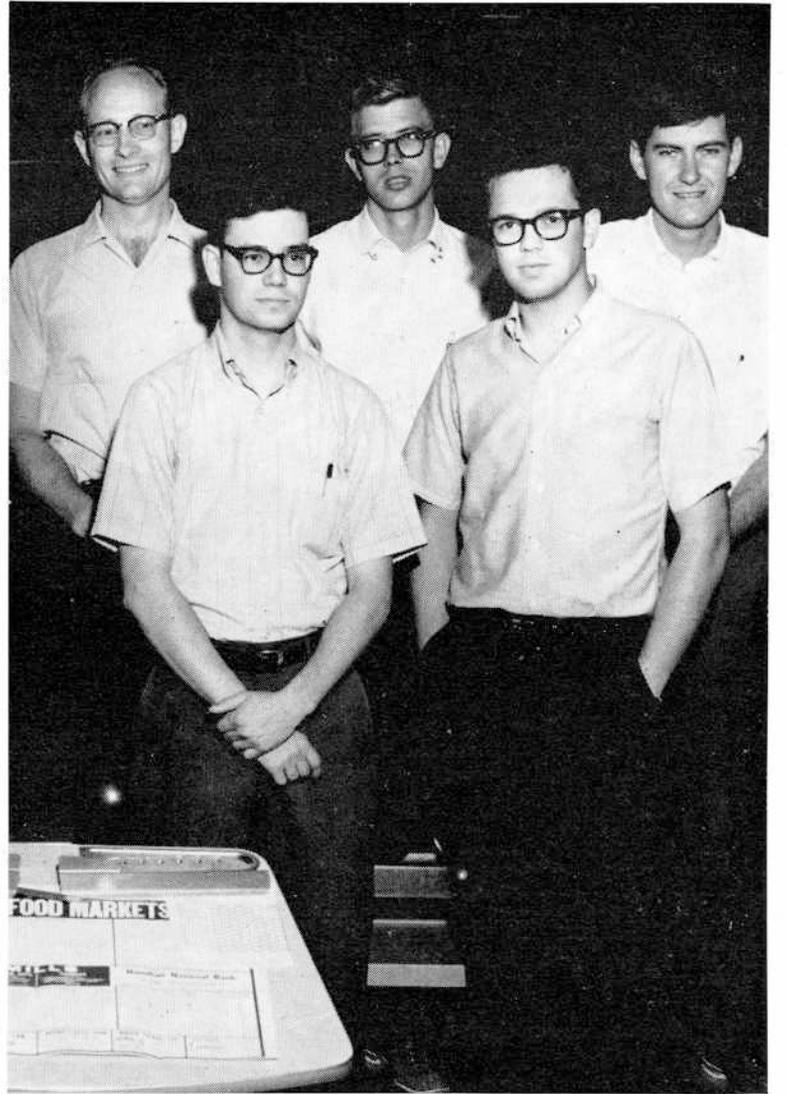
The Pinbusters and Eightballs shared two each.

Jack Spears, Rebels, rolled a 229 scratch game . . . and Al Fisher, Smelters, singled with a 248 handicap. Spears returned to the boards in series count with a 618 scratch, 669 handicap.

The Rebels were best in scratch count with 922 singles, 2564 series. The Markers marked best handicap singles with 1048 . . . and the Smelters smashed through a 2981 handicap series.

League standings follow:

Team	W	L
Has Beens	19	9
Markers	18	10
All Stars	18	10
Bumpers	17½	10½
Rebels	17	11
Swingsters	17	11
Tigers	16	12
Pinbusters	14	14
Eightballs	14	14
Smelters	14	14
Cubs	13½	14½
Playboys	13	15
Splinters	12	16
Rippers	9	19
Eagles	7	21
Screwballs	5	23



THE INVALIDS ARE ANOTHER fine team in the C Bowling circles . . . rolling each Monday at 5:45. Forming the Invalids, one of the 12 teams in the league, are front row, from left, Jim Rollins and P. E. Edwards. In the back row are Leon Brown, Captain W. C. Anderson and Douglas Sparks.

Basketball, Volleyball Players—Front & Center

Play will begin shortly in plant Basketball and Volleyball Leagues. If you have a team organized, call Recreation, extension 3-7109, and give the team's name, captain and co-captain, and a team roster.

If you as an individual want to play on a team, call also . . . and your name will be given to existing team captains.

Sgt. McCoy Home After Asian Duty



Sergeant James T. McCoy

Sergeant James T. McCoy recently returned home from a year's duty in Vietnam.

A career soldier, McCoy has logged 18 years service in the Army.

After his visit home, Sgt. McCoy will be stationed at Fort Eustis, Virginia.

His father Tom McCoy is in Process Maintenance here in Y-12 . . . and his stepmother is also in the Maintenance Division.

The McCoy home is at 433 West Broad Street, Clinton.

Sgt. McCoy served with the 541st Infantry in Vietnam.

Fireballs Gain C League 1st Place

The Fireballs streaked to the top of C Bowling last week with a three point win over the Hi-Lifers. The Sunflowers swamped the Rodders for three also, as did the Royal Flush 'round the Badgers.

Rolling up four it was the King Pins over the Rollmasters, the Rounders past the Big Five and the Invalids over the Parbusters.

Joe Morgan, Rounders, rounded off a 213 scratch game, 566 scratch series. K. H. Wright, Rodders, rolled a 243 handicap game . . . and Bill Smith, Sunflowers, zeroed in with a 642 handicap series.

The Rodders rolled 901 scratch singles . . . and a new season high of 1064 handicap single count. The Sunflowers took both series highs . . . 2501 scratch, 2936 handicap.

League standings follow:

Team	W	L
Fireballs	17	7
Badgers	16	8
Sunflowers	15	9
Rodders	13	11
Royal Flush	13	11
Rollmasters	12	12
King Pins	12	12
Rounders	11	13
Big Five	11	13
HiLifers	10	14
Invalids	8	16
Parbusters	6	18

Hula-Hoop Is Back With Noise-Makers!

Union Carbide Corporation's polyethylene has brought the hula hoop back into the news. The new toy, one of the most popular single toys ever to be developed, now is colored in fluorescent shades and contains steel ball bearings that produce a noise as the toy rotates. The new hoops are extruded from high-density polyethylene made by Union Carbide, that is tougher and more rigid than the plastic previously used.

Wyatt, Lewin, Norris Lead Tennis

Lloyd Wyatt still paces the X Table Tennis League, with his three game win last week over Bill Motley. Motley, himself, demolished Herb Mook for three big sets.

X League standings:

Player	W	L
Lloyd Wyatt	8	1
Bill Motley	4	5
Roy Huddleston	2	1
Geoff Newman	1	2
Herve Derrien	0	3
Herb Mook	0	3

Y action saw Bob Coveyou beat Paul Kasten for two . . . and Bob Brown downed Francois Kertesz also for two.

Y League standings:

Player	W	L
Al Norris	6	0
Gordon Brewer	5	1
Bob Coveyou	2	1
Bob Brown	2	1
Francois Kertesz	2	4
Paul Kasten	1	5
Art Weinberger	0	3
Fred Wetzel	0	3

Joe Lewin is king-bee in the Z League via two wins . . . big ones over Winfred Collins and A. B. Meservey. James Hallau downed Tudor Boyd for two as did Meservey.

Z League standings:

Player	W	L
Joe Lewin	6	0
Dave Allen	2	1
James Hallau	2	1
A. B. Meservey	2	4
Winfred Collins	2	4
Tudor Boyd	2	4

LADIES ONLY

An easy way to protect your cook book from floury or buttery fingers is to open it to the correct recipe and then slip it into a clear plastic bag. Cooking experts from Union Carbide's "Glad" Home Service Group report that the measurements and instructions are easy to read through the plastic and spills won't soil the book.

Security depends on you, not on some mythical "George."

Recreation



Monday, October 30
 BOWLING: 5:45 p.m. C League, Ark Lanes.
 TABLE TENNIS: 7 p.m., Oak Ridge Wildcat's Den.
 PHYSICAL FITNESS: (For Women) 7:30 p.m. Oak Ridge High School Girls' Gym.
Tuesday, October 31
 PHYSICAL FITNESS: 7:30 p.m. Oak Ridge High School Gym.
Wednesday, November 1
 CARBIDE RIFLE LEAGUE: 7 p.m. Clinton Rifle Range.
 BOWLING: Mixed League, 8 p.m. Ark Lanes.
Thursday, November 2
 BOWLING: Classic League, 5:45 p.m., Ark Lanes.
 PHYSICAL FITNESS: 7:30 p.m. Oak Ridge High School Gym.
COMING SOON
 VOLLEYBALL and Basketball

"Mary, I won't be in today. Please get that SECRET Staff paper out of my safe... no, that's not it.... it's 35-85-28...but don't write it down...."

"Say, Jim, I know I shouldn't say this on the phone, but..."

"Listen, Pete, I understand the Boss doesn't want this to get out, but the contract will be let to..."

"...and that's how the ___ operates. Oh, before you hang up, can I have your name and agency please... ..hello.....hello..."

"That figure is SECRET, but if you multiply the year we moved here by the number of guys in our car pool, you'll have it..."

"Bill, guess what? But first promise me you won't say a word--- it's my neck if you blab...."



SYLVIA GOODE, A STUDENT AT FARRAGUT, is seen with her parents, Mr. and Mrs. W. B. Goode Jr., and her prize-winning Fire Prevention Poster. Sylvia copped a \$25 savings bond in the Insurors of Knoxville, Inc. sponsored contest among Knox County students. Her poster used the theme "Is Your Fire Prevention Draggin'?"

6-13599



IN OBSERVANCE OF FIRE PREVENTION week Sylvia Goode's poster above in vivid colors (complete with sparkling spangles) took top honors in competition recently. Sylvia's father, W. B. Goode Jr., is in Y-12's Chemical Engineering Development.

UCC Treasurer Sneath Views 1968 Prospects

Speaks To Western Security Analysts

Speaking before The Security Analysts of San Francisco recently, William S. Sneath, vice president and treasurer of Union Carbide, said that the corporation's third quarter sales will show no significant change from the pattern of the first two quarters. He said that preliminary indications are that sales were about \$544 million, five percent below the third quarter of last year, and earnings might be in the 60 cents per share area, 36 percent below last year's third quarter.

"We experienced no significant pickup in business in the third quarter," Sneath said. "Despite the pronouncements by economists that business is in a strong upsurge, as of this date we do not see it in our customers' orders."

Sneath said that although Union Carbide continued to be hopeful that there would be some pickup in the fourth quarter, it was too late for full-year results to be influenced greatly. He estimated that 1967 sales would be somewhat less than \$2.2 billion, and that earnings per share will probably be under \$3, before giving effect to certain accounting changes, including foreign consolidation, which are expected to add about \$275,000,000 to sales, and eight to 18 cents per share to reported earnings. In 1966 the corporation reported sales of \$2.224 billion and earnings per share of \$3.82.

"The key reason for Union Carbide's reduced profit margins," Sneath added, "is that we are undertaking a major expansion program covering all aspects of our business, and this has been adding very materially to our costs."

Sneath stated further that inventory liquidations appear to be nearing an end and that start-up problems are being overcome. "As far as 1968 is concerned," he said, "estimates from Union Carbide's divisions indicate the possibility of a satisfactory sales increase, and if that is achieved there is no reason we can't see our earnings begin to pick up."

In his talk, Sneath mentioned numerous new products being developed by Union Carbide, including a new ingredient for synthetic rubber, a seed planting technique utilizing a synthetic tape, Thorne graphite yarn used in aerospace vehicles, and a new line of radiopharmaceuticals.

Analysts were told that among Union Carbide's activities in the West Coast area, many of which are currently being expanded, are the production of integrated circuits and other electronic components, laser systems, industrial gases such as liquid hydrogen and oxygen, and the unique underseas work being done by its subsidiary Ocean Systems, Inc.

United Fund

Continued from Page 1
mate conclusion . . . with more people than ever contributing a Needed Share to the various community United Funds."

Hopkins further commended each employee who has pledged a fair share for the first time, or has upped his past contributions. "Giving these vital agencies the necessary money they need to operate with can only make better communities for all of us," he stated.

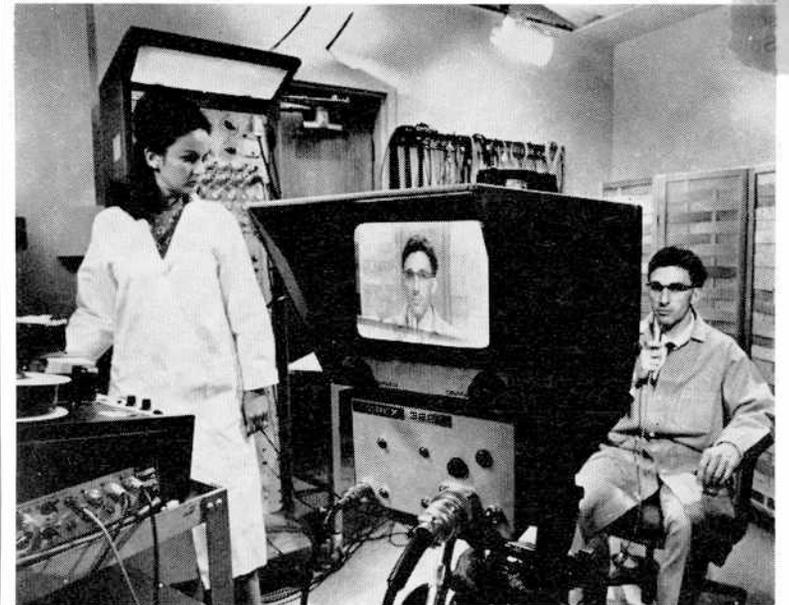
Final wrap-up of the drive in Y-12 was expected this week.



UNION CARBIDE CORPORATION
NUCLEAR DIVISION
P. O. BOX Y, OAK RIDGE, TENNESSEE 37830

(RETURN REQUESTED)

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PROBING THE MIND — Scientists at the University of California's Brain Research Institute are using videotape television recorders and computers to analyze brain waves in preparation for experiments to find out how man can manipulate, control, enhance or direct his mind. "The 21st Century" reports on new developments in brain research in "The Miracle of the Mind," Sunday, October 29, at 6 p.m. EST, over WBIR-TV, Channel 10.

'Miracle Of Mind' Probing Subject For '21st Century' Telecast Sunday

Research probing new ways for man to manipulate, control, enhance or direct his mind will be reported on "The 21st Century" in an examination of "The Miracle of the Mind," Sunday, October 29 at 6 p.m. in color on the CBS Television Network. (Carried locally by WBIR-TV, Channel 10.) CBS News Correspondent Walter Cronkite is principal reporter for the series which is sponsored in the public interest by Union Carbide Corporation.

Included will be experiments in transfer of specific knowledge, "memory and mood pills," and voluntary control of brain action.

Transfer of specific knowledge using molecules of a brain chemical called RNA as a vehicle will be seen in experiments with rats in the laboratory of Dr. James McConnell at the University of Michigan. This highly controversial theory suggests that if the right molecules from the brain of a genius were injected into some lucky recipient, he too would become a genius.

Memory Pills?

Testing of a prototype "memory pill" of the future will be shown at the Veteran's Hospital, Albany, New York. The type of drug used opens the way to exploration of methods of modifying memory and enabling a person to continually bring forward experiences from the past.

"Mood drugs" are being tested by Dr. Arnold Mandell of the University of California Neuropsychiatric Institute. His research shows that some underachieving students can be helped to improve their school work by administration of drugs. The drugs are used to affect the individual's mood, general level of activity, and motivation.

Voluntary control of the brain's actions will be demonstrated by Dr. Joe Kamiya at the Langley Porter Neuropsychiatric Institute of the University of California. His experiments show that if a person could identify and learn to control specific brain waves, he could eliminate anxiety, aggressiveness or even pain voluntarily.

Moral, Ethics Involved

Brain researchers will also discuss the moral and ethical questions involved in application of their discoveries. The principal questions are whether man has the right to tamper with evolution; who will select the persons to benefit from technological control of the mind; and who will control the mind controllers.

Demonstration of memory control; elimination of aggressive behavior through electrical stimulation of the brain; and correlation of brain waves with emotions and thoughts.

"The Miracle of the Mind" was written by Judy Towers. "The 21st Century" is produced by CBS News, with Burton Benjamin as executive producer; Isaac Kleinerman, producers; and Fred Warshofsky, science editor.

MATCHLESS METHOD

"The best way to make a fire with two sticks is to make sure one of them is a match." Will Rogers.



Ride wanted from Emory Gap to West Portal, straight day. R. W. Curtis, plant phone 3-7517.

Ride wanted from Taliwa Garden Drive, off Chapman Highways, Knoxville, to West Portal, straight day. Virginia George, plant phone 3-7226, home phone Knoxville 573-4387.



"Tomorrow I start work in the office—the boss says I'm wasting my talents out here!"

Strive for no security infractions.

