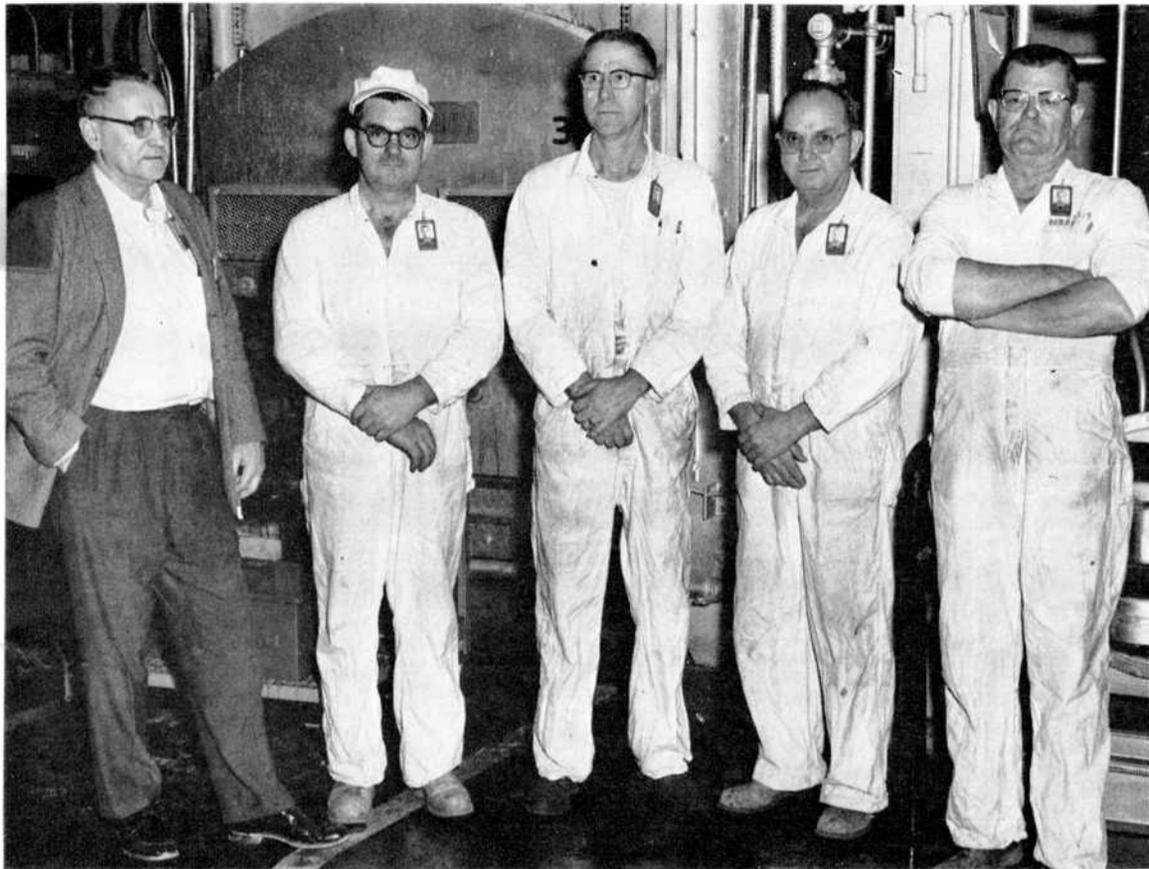


6-10875



VERY PROUD OF THEIR SAFETY RECORD OF MORE THAN 18 YEARS is the Foundry Shop of the General Machine Shop. The shop, which was formed September 20, 1943, has never had a lost-time accident in its history. Though the department is small, numberwise, it is the concerted effort of each employee that brings out the clean slate of safety performance. From left are Foreman William H. Donahue, I. O. Keller, H. M. Jenkins, C. Tharp and W. A. Crabtree. J. H. Lauderdale was on vacation when the above picture was taken.

## Foundry Shop Moves Into 18th Year With 'No-Accident' Slate

**Small Group Sets Standard All Y-12ers Could Follow In Excellent Work Habits**

One of the most remarkable safety records in Y-12 history has been achieved by the Building 9738 Foundry Shop, a unit of the General Machine Shop in the Mechanical Operations Division. Since its founding, September 20, 1943, the Foundry has never sustained a lost-time injury.

Activity in the Foundry presents many different types of accident hazards—but due to the awareness of the employees of these dangers, the group's record through the years has been maintained. The 18-years-plus clean slate is certainly an admirable example for other Y-12 departments.

### Many Metals Cast

Various types of metals, such as iron, zinc, aluminum, brass, bronze and lead are poured into different type castings in the Foundry. These metals are poured into the molds while in a molten state and it is then that the danger of burns exists so much. Extremely high temperatures are required to "melt" these metals.

After the molds and cast have cooled, a rough finish is desired on the metal, and sand blasting is required to accomplish this. Safety glasses, fresh air hoods and safety gloves protect the employees from flying particles of sand and metal.

### Personal Attitude Counts

The personal safety habits of each employee in the Foundry have provided Y-12 this remarkable standard of safety. Naturally, cleanliness and the use of safety equipment is extremely important in the Foundry, as it is important in any phase of work. But in the long run the personal attitude of the employee is the rewarding end result.

All the patterns and forms are built in Y-12. They are constructed of wood, backed by sand, into which the molten metals are poured to obtain the desired shapes and forms.

### Small Steel Mill

Actually the Foundry is a steel mill in miniature. The possibility of injuries and accidents is extremely high in such an operation. Everyday operations in this type work require the constant use of safety devices and equipment.

All the heat treating operations of steel is done in the Foundry. Heat treating includes tempering, annealing and stress relieving. All of these steps are difficult to perform, and extreme safety precautions must be constantly used to prevent disabling injuries.

### Pride In Record

Members of the group take justifiable pride in the illustrious record of accident prevention.

Continued on Page 4

## Y-12 Credit Union Meets At 7:30 Tonight

**Portable Television Set To Be Given**

Tonight is the big night as far as the Y-12 Credit Union is concerned! The annual meeting of the credit organization will begin tonight, Wednesday, January 17 at 7:30 p.m. in the Green Room of the Ridge Recreation Hall.

Some lucky ticketholder will walk off with a handsome portable television set.

This is the only full membership meeting the Credit Union holds each year. Two members of the board of directors are to be named, as well as one member to be elected to the Credit Committee. Chief W. O. Elam, of Y-12's Fire and Guard Department, is chairman of the nominating committee.

### Dividends Set

Meanwhile, officials of the Credit Union announce that dividends are five per cent per annum, to be paid at six month intervals. Other activities will be discussed at tonight's meeting. The year 1961 was an outstanding one of the Y-12 Credit organization. It was during this time that the organization completed and occupied their new building at Lafayette and Illinois in Oak Ridge. The beautiful new structure is a credit to any credit union.

Officials of the Credit Union, in urging members to attend, point out that this is the only meeting in which members may voice their opinions in selecting officers or determining policies for the organization.

### Nonprofit Organization

Credit Unions are non-profit corporations, chartered, regulated and supervised by the government. Most countries with such organizations have specific credit union laws, although some administer credit union affairs under a general cooperative law.

Out-going members of the board of the Y-12 organization are Tom Stephens, Engineering Records; and Paul Blakely, Oak Ridge National Laboratory employee in Y-12. They have served three years on the board. Expiration of terms are so staggered that not more than three vacancies will occur annually.

You can't win that pretty TV set unless you register, so we'll see you at the Credit Union meeting tonight!

## Disasters Claim Many Lives In 20 Years

The three greatest disasters in the United States in the past 20 years were the Texas City fire and explosion in 1947, with 561 deaths; the 1942 fire in a Boston night club, with 492 deaths, and hurricane Audrey in June, 1957, which killed 395 persons.

## AEC '62 Construction Set At \$65 Million

**Huge Reactor Takes Most Of Allocation**

Construction work involving Atomic Energy Commission projects with costs estimated at more than \$65,000,000 were under way in the Oak Ridge area as the new year began.

These projects, at various stages of completion, range from animal facilities at the University of Tennessee-AEC Agricultural Research Laboratory to the huge Experimental Gas-Cooled Reactor (EGCR), a nuclear power station that will generate about 25,000 kilowatts when completed in 1963. About 1,000 are employed in the various construction jobs for the AEC. The work force varies throughout the year with status of the work and the weather.

Three reactors are under construction in addition to the EGCR, which is the largest single project with its total estimated cost of \$40,000,000. The others are the High Flux Isotope Reactor, the Molten Salt Reactor Experiment, and the Fast Burst Reactor.

## UCC Simulates Solar Radiations With Arcs

Scientists at National Carbon Company, a division of Union Carbide Corporation, have been able to simulate the solar radiation beyond the earth's atmosphere. This was accomplished by using the light from a bank of high-intensity carbon arcs.

Since much of the sun's energy is absorbed by the atmosphere, studies of solar radiation of an intensity similar to that found in outer space become more important in testing space vehicles, their component parts, and also such devices as the solar cells used to convert the sun's energy into power for space vehicles.

## Many Y-12ers Help 'Mame's' Cavorting

The riotous comedy "Auntie Mame" marks the Oak Ridge Community Playhouse's 100th production. Opening night, tomorrow, Thursday, January 18 will be marked with special activities. The hilarious narrative of the misdeeds of Mame will be given this week-end January 18, 19 and 20 and the following week-end, January 25, 26, 27.

The unconventional and worldly flibbertigibbet "Auntie Mame" suddenly and unexpectedly inherits an orphaned nephew. Her escapades, while rich and while poor, while married and while widowed, are as funny as her methods of raising a young boy to manhood. The Broadway hit, the movie, and the novel by Patrick Dennis have all regaled the nation since their first appearances.

Several Y-12ers and their families are appearing in the huge cast. Muriel deForest, wife of J. M. deForest, and Ernest Earley have featured roles in the drama. Also assisting in various capacities will be Ernest Earley, Otto Sheller, Phillip J. and Roz Brennan on scenery; Anne Fortenberry, daughter of M. J., and Lillian Bales, wife of James D., on costumes; David and Dorothy Alford and Roz Brennan on properties; Mona Leake, wife of W. A., and Mrs. Walter Bertsch on make-up.

## Physics Seminar Will Hear Conference Report

Oak Ridge National Laboratory's Physics Division announces its seminar for 3:15 p.m. Friday, January 19, with W. C. Koehler discussing "Report on the International Conference on Magnetism and Crystallography." The meeting will be held in the East Auditorium of Building 4500, and all interested technical personnel are invited to attend.

## Security Regulations For New Year Listed

**Moral Duty As Well As Legal Standard**

Some apt security resolutions were noted in a late Carbide Kentuckian. They might be wisely applied to any phase of work concerning the nation's defense. It is reported as a standard for Y-12ers.

1. I will not engage in any "loose talk."
2. I will not spread rumors that could hurt security.
3. I will not reveal classified information to any unauthorized person.
4. I will not leave a classified document unlocked and unattended.
5. I will not leave a classified file unlocked and unattended.
6. I will not discuss classified information over the telephone.
7. I will wear my badge in plain sight while in the plant.
8. I will report security irregularities which have come to my attention.
9. I will report to my supervisor the presence of persons in my work area who are not normally assigned there.
10. I will learn and abide by security regulations.

Security is a duty thrust upon us by world conditions. Morally, as well as legally, Y-12ers are obligated to follow security regulations on the most effective basis possible.

## Average American Gets 200 Stamps Annually

The "average" American last year received approximately 200 stamps, 193 letters and six pieces of parcel post. The United States Post Office sold \$1.2 billion worth of stamps. The Postage Stamp is not as old as you may think, either. The first U. S. stamp was not issued until 1847.

## SAFETY SCOREBOARD

The Y-12 Plant Has Operated 17 Days Or 473,000 Man-Hours (Unofficial Estimate) Without A Disabling Injury Through January 14  
Phone 7755  
For Daily Report On Accident-Free Hours

# The Bulletin

Published Weekly By And For  
Y-12 Employees Of  
UNION CARBIDE  
NUCLEAR COMPANY  
Division of  
UNION CARBIDE CORPORATION

JAMES A. YOUNG Editor

### OFFICE

Post Office Box Y  
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## Man Is Still World's Most Complex Device

### Average Man Eats 100 Tons Of Food

In the hurly-burly world of missiles and talk of space travel, man is still the world's most miraculous mechanism, says the National Safety Council.

Did you know that:

In 70 years of life, a human being eats more than 100 tons of food — 1,400 times his body weight — and spends five full years just putting food into his mouth.

In one day, if his weight is average, his heart beats 103,680 times, he breathes 23,040 times and inhales 438 cubic feet of air; his blood travels 168 million miles, he moves 750 muscles and utters an average of 4,800 words; he exercises 7 million brain cells and radiates 85 degrees F. of heat.

The human body can take a lot of punishment and still function. A man can live without his gall bladder, spleen, appendix, and bladder; he can give up one kidney, two quarts of blood, a piece of his brain, both eyes, and all of his teeth and still live.

But it may take only one little accident to throw the monkey wrench into the works that will stop this wonderful machine forever.

ARE YOU LIVING AND WORKING AS SAFELY AS YOU CAN?

### Where, Oh Where Has My Little Car Gone?

The snows of winter last week may have broken a few standing records. As far as one Y-12er is concerned . . . it was a record. He lost his car in North Portal's parking lot! For two days the unidentified employee was carless, wondering where his automobile slept underneath a blanket of snow which obliterated licenses and other identifiable markings.



NO, IT IS NOT THE creature from the Black Lagoon, it's Lettie Ault, Project Engineering, all set for the cruel weather that descended on Y-12 last week. This "backward snood" was crocheted by Y-12er Jack Johnson's wife, and the girls all claim it's the latest thing in fashions. Despite the preparedness of this comely Y-12er, the word around the plant is: "Yankee Weather — GO HOME!"



Shakespeare defined it as "barren winter, with his wrathful nipping cold: So cares and joys abound, as seasons fleet." Not much news abounded throughout the plant last week, but through the snow and Arctic wintry blasts, there were a few items gleaned here and there.

### MAINTENANCE

Electrical is welcoming in Henry P. Smith, and also rolls out the red carpet for Co-opper J. M. Rochelle, from the University of Tennessee . . . Get well wishes are speeded to W. F. Smith and E. L. Turnbull.



Lisa Ann Owens

Now here's a fine little girl. She's Lisa Ann Owens, born November 16, 1961. She tipped the scales at seven pounds, eight ounces. The granddaughter of Paul E. Shepard, Buildings and Grounds, Lisa has a brother Lynn, age 17 years and a sister, Iris, age 15 years.

What Mother Nature giveth, Father Time usually takes away!

### TECHNICAL

The Beta Four Special Projects Department reports at home or elsewhere for the holidays were Ken Bernander, Mississippi; Margaret Williams; Nelson Van Wie, Lake Worth, Fla.; Loretta McBee; Stan Hull; Sam Rea, Chuck Maberry, Middle Tennessee; and "Bucky" Buckminster . . . Sam Rea has hardly got back into the saddle before he has to go trotting off for jury duty this week.

Nelson Van Wie didn't return in time to celebrate his birthday but nevertheless the department had a cake for him . . . and ate it too, which comes as no surprise! . . . The household do-it-yourselfer, George McGown, is strictly on his own this time . . . adding onto his house by guess and by golly!

Prices at winter resorts are so high you have to stop every once in a while to rest your money.

### MECHANICAL OPERATIONS

Production Control controls the situation long enough to report a big welcome to Fay Duncan who was recently greeted by her many Y-12 friends. Fay formerly worked in Development, before the birth of her son . . . Jim Sweeney moved onto the Z Area and Dispatching Department and will be missed by his friends in his old department. That was a short stay, Jim . . . Welcome back to Jack Thomson who has been on loan to Central Employment . . . Jack reports some interesting trips to various colleges recruiting . . . Get well wishes are sent to Tom LaRue's wife and to Kathy Mills' father, George Mills, who were hospitalized recently . . . The Clyde Hopkinses were hosts to Clyde's mother and brother from West Tennessee over the New Years holiday.

Ed Cothron went to Paducah each other weekend to close up some business . . . Kathy Mills was sick-bound in Pineville, Ky., over the New Year week-end. She went up to visit friends and caught their bug. Kathy is blessing Dave Blessing's Orchestra with her vocal efforts these days. News from Jerry Houser who

is serving with the Air Force in Germany is that he will probably be home sooner than he expected . . . He has really been seeing the sights around Frankfurt and Heidelberg . . . traveled 850 miles in four days. Carol says he wants to take her back to Germany someday. She got a pair of white boots from him from Paris last week, wouldn't let anyone else wear them either!

Still recuperating is Ray Fletcher, getting over his illness. He expects to be back at work soon. He visited one day recently in the office, and everyone sure was glad to see him. We will all be happy when you get back, Ray . . . Elbert Lockhart (better known as "El Bardo" the magic man) will appear before the ASME meeting on February 6 at Karns School. Elbert is also taking a large part in the work for the International Brotherhood of Magicians convention which will be in Knoxville at the Coliseum in 1963.

The General Machine Shop sends best wishes to three ailing men, O. Mack, W. F. Sharp, and F. K. Clabough. Hurry and get well, men! . . . Welcome back to Ralph Lawson, after his successful bout with the 'flu.

One reason women are not too interested in outer space, they think more of stares than they do stars.

### SHIFT SUPERINTENDENTS AND UTILITIES

E. E. Spradlen and J. L. Hart are on the ailing list, and best wishes for a quick recovery are sent both of them . . . E. F. Sosby vacationed in Bradenton, Fla. and Toccoa, Ga.

### INDUSTRIAL RELATIONS

The Fire and Guard Department sends get well wishes to Guard Walter Queener's wife, who is in St. Mary's Hospital in Knoxville . . . Sympathy is extended to Guard H. L. Montooth; his father passed away January 6.



Malorie Lynn Cobb

And here's the latest grandbaby pix from the reliable Liz. This time it's little Malorie Lynn Cobb, born January 4 at Fort Sanders Presbyterian Hospital, Knoxville. She weighed seven pounds even, and is the daughter of Malcolm and Anita Cobb, the granddaughter of L. A. Little. This is his first grandchild and you can see she's even waving to her grandpops!

From the Cafeteria, Frances Brock is ill in the hospital, and get well wishes to her . . . also to Rosa Lowe and Mayme Hundley . . . Condolences to Willie Braden in the death of her brother Clifford Daughtery . . . Also to Tommy and Frank Goss whose brother-in-law, William Wynn, passed away recently in Philadelphia . . . Verna and Paddy Peckman had as guests last week-end



HONORED FOR HER RECENT WEDDING is Asa Tarwater Gentry, SS Control, at right. Presenting Asa her gift from fellow workers in SS Control is Janet Hightower, of the same department. Mrs. Gentry was married December 29, 1961, at the First Methodist Church, Morristown. The groom is William W. Gentry, Chattanooga. The couple live at 162 Northwestern Avenue, Oak Ridge. 6-10877

## Y-12ers Celebrating 15, 10 Year Anniversaries

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

### 15 YEARS

John A. Myers, Alpha Five Machine Shop, January 21.  
Arnold R. Agee, TW Shop, January 23.

### 10 YEARS

William A. Moles, Timekeeping, January 18.  
Robert W. Frazier, Electrical, January 18.  
Edwin M. Bittle, Research Services, January 21.  
Roger G. Hendrick, Chemical, January 21.  
Pearl G. Youngblood, Statistical Services, January 21.  
Richard W. Hayes, Maintenance Services, January 21.  
Harry L. Bradley, Research Services, January 21.  
Alexander Berry, General Machine Shop, January 22.  
Charles O. Henderson, Beta Two, January 22.  
Joseph L. Ailey, Product Processing, January 23.  
Howard L. Wagner, Alpha Four Cascade Operations, January 23.  
Ray H. Snow, SS Control, January 23.

## Good Housekeeping Is Key To Poster Contest

January's poster contest is beyond the half-way mark today. The Safety Department reports many fine entries in with the theme "The Real Meaning of Good Housekeeping — Clean-Up Week."

Prizes offered are a Sunbeam hair-dryer and drill and jig-saw attachments. The popular contest has drawn entries from all over the plant. All employees and members of their family are eligible to enter. Has your entry been submitted to Safety yet?

Paddy's brother, Bill, from Pittsburgh.

If it's going to snow around here, everyone wishes that it would dump something from which snowballs can be made. That stuff on the ground last week would not even stick together long enough to make something to hit the mail man with!



SHARING HER surprise cake with fellow workers in SS Control is Asa T. Gentry whose holiday wedding took place December 29 in Morristown. The well known Asa was presented a wedding gift last week from fellow workers in Building 9706-1A.



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

David Bailey, Fire Department; W. H. Asbury, Graphite Shop; Aleene Haney, Production Analysis; James P. Murray, Mechanical Production; Cleophus Loyd, General Machine Shop; Alvin W. Allen, Process Maintenance; L. M. Gibson, Process Maintenance; Edd Webber, Tool Department; C. A. Queen, Stores; W. R. McClellan, Chemical.

Y-12's safety is YOUR safety.



"Oh, it's no trouble at all . . . I'll just throw something together."

6-10878

6-10876

# Earthlings Ponder Life On Other Worlds; 'Most Likely' Is Verdict

## 'Totally Unscientific To Deny Possibility Of Life' On Millions Of Planets, One States

The age-old question that has intrigued man for ages may soon be answered once and for all . . . IS THERE LIFE IN OTHER WORLDS? It seems only yesterday that speculation about outer space and other worlds belong in the realm of science fiction.

But now a man has actually flown around the world in a space ship, and an object made on Earth has been dropped onto the moon. A scientist has even heard radio waves from other planets!

In a recent symposium chaired by Dr. James R. Killian, Jr., chairman of the Massachusetts Institute of Technology, this intriguing question was fully discussed. Other panelists included Dr. George B. Kistiakowsky, former science adviser to President Eisenhower and now at Harvard University; Dr. Donald N. Michael, senior staff psychologist at Brookings Institution in Washington; Dr. Harlow Shapley, director Emeritus of the Harvard Observatory; Dr. Otto Struve, director of the National Radio Astronomy Laboratory; and Dr. Arnold J. Toynbee, British historian. Questions were directed to the panel by newsmen Chet Huntley, NBC-TV; Walter Cronkite, CBS-TV; and William L. Laurence, New York Times.

The conference was sponsored by the Samuel Bronfman Foundation. The purpose of the Foundation is to promote understanding of the role independent business plays in a democracy. Recently, the Foundation has undertaken new tasks, such as spreading knowledge about health and disease, and the conference on life in other worlds.

Here is a summary of the individual views of the speakers:

Dr. Kistiakowsky asserted that astronomers maintain that there are millions of planets similar to the planet Earth. "I believe it would be totally unscientific to deny them the possibility of life," he said. Further, he said that if we visited these millions of planets, we would most probably find "beings endowed with intelligence processes at least as good as ours."

As for life in this solar system, Dr. Kistiakowsky speculated that we would find it on Mars—but very primitive life, "perhaps not even so advanced as our own micro-organisms."

Dr. Michael doubted that communication with life on other planets would have a very profound effect on our basic beliefs. We held that "after the first flurry of excited speculation and recapitulation of ritual profundities about the universe and man's place in it, I suspect that life will settle down with few if no immediate significant changes in values or perspectives for most people."

Dr. Shapley emphasized his belief in the existence of life in other worlds. "We would be very

prejudiced indeed," he argued, "if we should insist that there is life only on Planet Number Three in This Solar System, whose sun is but one star in a hundred thousand million in a galaxy that is but one in a metagalaxy of billions."

In suggesting the probability of life in other worlds, Dr. Otto Struve pointed out that the number of stars is about equal to the number of grains of sand on all the beach on the earth. He estimated that there are some 100,000,000,000,000,000 to 10,000,000,000,000,000 stars in the part of the universe we can see, and a great many of them have planets that might support life similar to life on earth. But he mentioned that efforts to detect radio signals from two stars and their planets were unsuccessful.

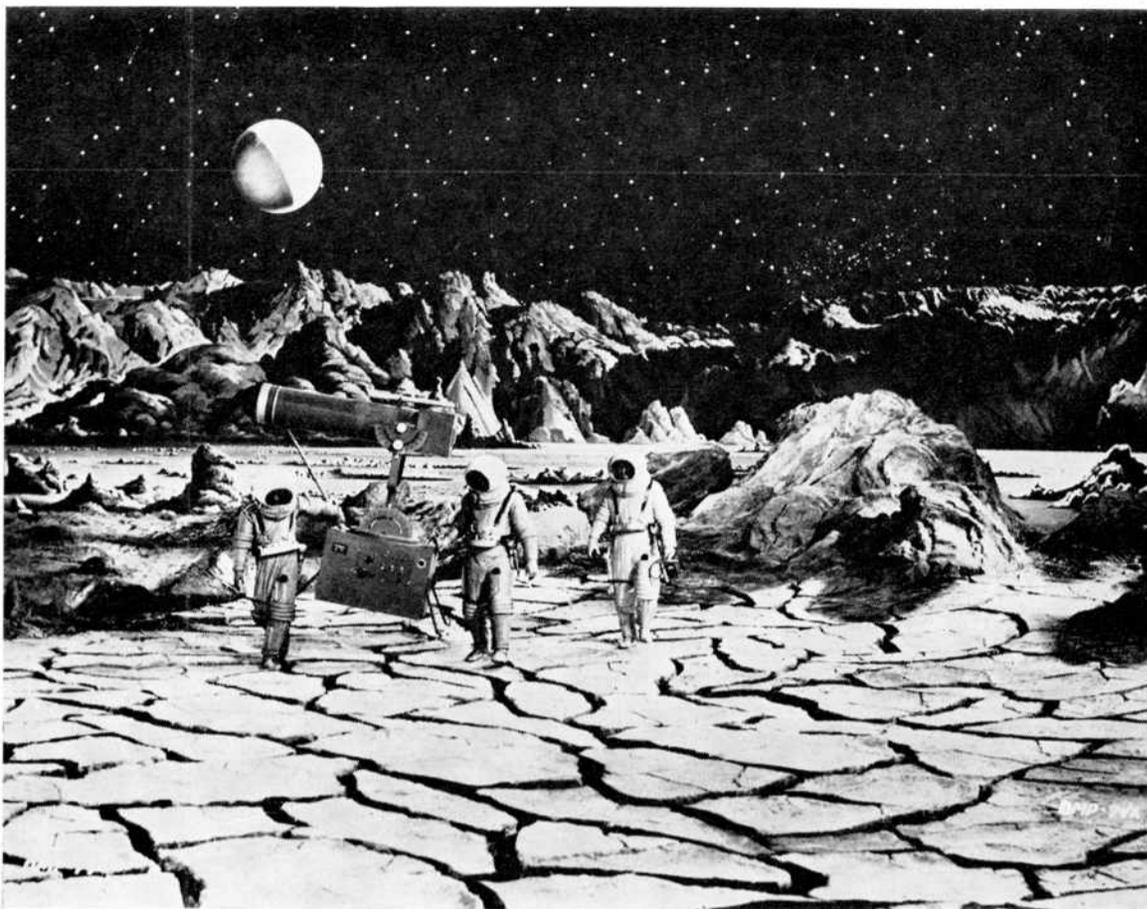
The final speaker was Dr. Toynbee. He pointed out that man has uncovered new worlds in the past — North America and South America, for instance — and brought with him slavery and war.

"So in 1961," he asserted, "we find ourselves again in the same dangerous and also fairly discreditable position that we were in round about 1500, when owing to technological advances in navigation, we discovered the Americas." And modern discoveries like atomic energy can be used for even more evil results. "Now," Toynbee said, "it is literally true that the wages of sin is death."

His conclusion was that "we have made sensational progress in mastering non-human nature; but we have been unsuccessful . . . in mastering our own human nature . . ." "Therefore I would say that the new worlds in whose life it is now most urgent for us to make contact are the spiritual worlds within ourselves, rather than the physical worlds in outer space."

## Outdoor Films Can Be Obtained Free

The outdoor film library maintained by the Tennessee Game and Fish Commission now has available a wide selection of outdoor films for use by sportsmen groups and other organizations. Any group may borrow these films free of charge except for return postage. For a copy of the Game and Fish film catalogue, write to: Film Librarian, Tennessee Game and Fish Commission, 1600 Lock Road, Nashville 7, Tennessee.



A MAKE-BELIEVE LOOK AT THE MOON'S surface shows the small earth hanging in the upper left. Movie makers visualized this in the United Artists release, "Destination Moon." Scientists hope to use the moon as a launching base for interplanetary travel. Study of the universe will be easier from the moon also because of the lack of atmosphere on the earth satellite.

## Annual Bowling Tournament Set At Terrace In February

The Y-12 Annual Bowling Event is scheduled for Saturday and Sunday, February 24, 25. All Y-12 employees bowling in a sanctioned league and who have rolled 12 games between August 1, 1961 and February 2, 1962 shall be eligible to participate in this tournament. The contest is slated to be held at the Oak Terrace Lanes, Oak Ridge.

Dead-line for entries has been set for February 9, 4:30 p.m. The entry fee will total \$2.50 per person per event, as follows: \$1.15 prize fee and \$1.35 line fees. All prize money will be distributed according to ABC and WIBC requirements.

Teams must bowl their members in the order listed on entry blanks. All substitutes must present themselves to the tournament secretary at least 30 minutes before scheduled bowling time to have their average certified.

All teams and mixed doubles will roll Saturday, February 24. Doubles and singles will bowl Sunday, February 25. No bowling will be allowed prior to or after these tournament dates.

### Handicaps Determined

Handicaps for the event will be based on 70% of the difference of each entrant's highest league average and 200. Averages used will be the highest league average as of February 2. All averages must be certified correct by the League Secretary.

Teams must enter tournament with members from their team roster, as to the rules of their league's Constitution and By-Laws. When any team is unable to enter the tournament due to the inability of the team to compete with five regular members of that team, it is permissible for that team to use three bowlers from any other leagues from Y-12. The team's average must not exceed 850 scratch.

### Tournament Officers

Tournament directors are listed as Jack Cox, Ray Waldrop, W. B. Tyree, Charles Gillihan, and R. T. Cantrell, Secretary.

Team captains are urged to have qualified scorekeepers for Team, Doubles, and Singles. Scores will also be checked by a staff working with the tournament secretary. Team captains are also urged to circle high scratch and handicap single games in each event.

### Secretaries Have Entries

Entry blanks and tournament rules are available from all league

## Atoms On Top In Basketball

### Lab Demons And Peons Also There

The Carbide Basketball League, pulling into the last stretch of the first half of league play, saw little action last week. Only two games were played, and one forfeited game was tallied.

Last Monday the Y-12 Atoms trimmed the Jay Birds to the tune of 63 to 41. Jim George scored 19 points for the winners, with Rose's 11, Cothron's, Brooks' and Forrester's seven points. Leading the losers were Bennett and Schert with 10 points each. This win put the Atoms into first place, tying with Oak Ridge Gaseous Diffusion Plant's Lab Demons and Peons.

Thursday night Y-12's American Eagles suffered their second defeat of the season at the hands of ORGDP's Lab Demons. The final score was 68 to 46. John Pridgeon led the losing Eagles in scoring with 17 tallies. Dan Harrison scored 20 for the victors and Bill Slattery scored 13 to Edd Woy's 11.

Y-12's Jay Birds won a forfeited game from the B Shift men, also from Y-12.

League standing follows:

Team	W	L
Atoms	5	1
Lab Demons	5	1
Peons	5	1
American Eagles	3	2
Jay Birds	3	4
Hoopniks	2	4
Kingston Five	1	4
B Shift	0	5

secretaries, or may be obtained directly from Recreation, Building 9704-2.

Additional information concerning the tournament may be obtained by calling Recreation, telephone 7109.

## Seven Teams In Volleyball Start Action

The Carbide Volleyball League got underway last week at the Oak Ridge High School. Two Oak Ridge National Laboratory teams won all three of their games . . . the Set Ups defeated the ORNL Raiders three games, 15 to 4, 15 to 1, and 15 to 5. The X-10 Old Men also won three games from the Biology team 15 to 3, 15 to 5, and 15 to 11.

Y-12's only team in the league, the Eagles, won one game from ORNL's ORSORTs 15 to 12; then turned and lost two in a row 15 to 11 and 15 to 5.

The Oak Ridge Gaseous Diffusion Plant's A Shift team did not play.

League standings follow:

Team	W	L
Set Ups	3	0
X-10 Old Men	3	0
ORSORT	2	1
Eagles (Y-12)	1	2
Biology	0	3
Raiders	0	3
A Shift	0	0

## Guttersnipes Hot In League Play

### Grab Lead As 2nd Half Opens

Y-12's Guttersnipes came roaring into the first week of play in the latter half of the Kingston Bowling League to rack up the Sparemen by the full four points. Don Bronson rolled games as follows: high scratch game, 217; high handicap game, 238 tying with fellow teammate Emerson Henck. Bronson also took high individual scratch series scoring with 571. Handicap series highs went to Turpin and East with 654.

The Guttersnipes rolled high team handicap series score with 3036. Other tallies saw the Alley Cads take four from the Could B's; and by three points the Head Pins over the Rookies. The Rookies won first place in the first half of league play.

League standings follow:

Team	W	L
Guttersnipes (Y-12)	4	0
Alley Cads	4	0
Head Pins	3	1
Rookies	1	3
Sparemen	0	4
Could B's	0	4



CHECKING FINAL RESULTS of a recent "shoot-out" at the Carbide 22-Rifle League is Phil Vogelgesang, Jr., and Bert Searles of the Y-12 team. Searles is in Y-12's Mechanical Inspection, and young Phil is the son of Phil Vogelgesang, Area Five Maintenance. The rifle league did not shoot last week due to the weather, but will this week, weather depending.

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TELEVIEWERS WATCHING A RECENT "I've Got A Secret" program were introduced to the special battery-operated electro-magnet, developed by D. B. Cameron, manager of battery products sales engineering of Union Carbide Consumer Products Company. The "secret" is that the magnet is powered by a single "Eveready" flashlight battery. The combined weight of Cameron, shown above at left, and Garry Moore is about 350 pounds.



**Ride wanted from 119 West Hunter Circle, Oak Ridge, to Central or West Portal, straight day.** Jerry Foster, plant phone 7954, home phone Oak Ridge 482-2571.  
**Ride wanted from Burlington Area, Knoxville, to Central Portal, straight day.** H. L. Mitchell, plant phone 7386, home phone Knoxville 525-0857.  
**Riders wanted from South Knoxville to any portal, straight day.** E. E. Cook, plant phone 7-8445, home phone Knoxville 577-4786.

**ORNL's Fraas Speaks At ASM Meet Tonight**

The Oak Ridge Chapter of the American Society for Metals will meet tonight, Wednesday, January 17, at the Holiday Inn, Oak Ridge. Featured speaker will be Arthur P. Fraas, Oak Ridge National Laboratory Reactor Division.

The speaker is a graduate of Case Institute of Technology and New York University. He will speak on "Future Reactor Designs."

The social hour begins at 6:15 p.m., with dinner scheduled for 6:45. The technical meeting will begin at 8. Reservations informa-

**Foundry Shop**

Continued From Page 1  
 While the remarkable record gains every day in longevity, the men in the department make safe work a constant rule.

Although the Foundry Group is a small one in number, its employees make safety a constant companion. Most of the men have been in the Foundry for some time. They are, with their dates of employment: William J. Crabtree, June 21, 1951; Foreman William H. Donahue, September 27, 1943; Herman M. Jenkins, November 5, 1947; Irvon O. Kellar, September 24, 1951; Johnnie H. Lauderdale, August 6, 1951; and Cota Sharp, November 20, 1950.

**Y-12 Salutes Group**

The entire Y-12 plant doffs its collective hat to the Foundry Shop and its safety-minded employees. This complex type of work offers many possibilities of almost every kind of accident imaginable. Yet with dedication and zeal the Foundry personnel have strived to keep their record clean.

It is, as has been pointed out many times, individual effort such as that personified by Foundry men that will make Y-12 a better, safer place to work!

tion for dinner may be obtained from J. W. Tackett, extension 6978.

Safety's dividends are well worth the effort.

**R'Masters Gain In Wednesday Bowling Loop**

The Wednesday League for Carbine bowlers really rolled right on through the weather and everything! Week before last, the Y-12 Rollmasters in the league dropped the Woodpeckers for three full points. They gained three more notches last week from the Wallops, thus gaining third place in current standings.

Y-12 hopes in the league, the Rollmasters, stand only six points removed from the lead.

League standing follows:

Team	W	L
Head Pins	48	28
Planners	47 1/2	28 1/2
Rollmasters (Y-12)	42	34
Sandbaggers	41	35
Mix Ups	41	35
Woodpeckers	38	38
Cast Offs	38	38
Pirates	37	39
Wallops	35	41
Lab Demons	33	43
Rookies	28	48
Wacos	27	49

**AIEE Reschedules ORIC Tour For Next Week**

The originally scheduled meeting of the Oak Ridge Section and the East Tennessee Section of the American Institute of Electrical Engineers was not held January 11, as planned, due to the inclement weather. It will be held instead next Tuesday, January 23 in the ORIC Building at Oak Ridge National Laboratory.

The program will consist of two lectures and a guided tour of the ORIC building. "The Mechanical Aspects of the ORIC Project" and "The Electronic and Control Aspects of the ORIC Project" will be discussed. Security badges will not be required for the meeting.

**'Atom In Hospital' Film At Commission**

A new motion picture, "The Atom in the Hospital," is now available for free loan from the Atomic Energy Commission for non-commercial showings. The 16mm color film, which has a running time of 12 and one-half minutes, depicts some of the major applications of atomic energy in the field of medicine.

The film was produced by the Handel Film Corporation under the technical guidance of medical authorities and the AEC. The picture is available from the Public Information Office, AEC, Oak Ridge.

**German Immigrant Came Here With 8 Daughters**

Many native Anderson County residents can trace their beginnings back to a German immigrant, Frederick Sadler. Sadler, a wagon maker, migrated to Pennsylvania in the late 1700's. After rearing a family of eight girls he moved to Dutch Valley, six miles from Oak Ridge, with his eight daughters and eight sons-in-law. Many of the names are still preserved in families, and community names. The daughters were married to men by names of Leinart, Spessard, Leib, Shinlever, Claxton, Clodfelter, and Bumgartner. One daughter's married name was lost.

**Snows Dampen School's Adult Registration**

The Adult Education classes got stymied last week by the weather. But then who didn't? Officials at the Oak Ridge High School adult program announce that due to the fact classes did not meet last week, registration time has been extended through tomorrow night, Thursday, January 18. Employees wishing to take courses in the winter quarter may go by the Registrar's Office and sign up for the desired courses.

**Could You Pass Naturalization Test To Become USA Citizen?**

How good an American citizen are you? Below are a few of the questions that are typical of those asked immigrants wanting to become naturalized citizens of the United States. Scoring is as follows: 18-20 right — way above average; 15-17 right — a good solid citizen; 10-15 right — typical American who should try reading more news and less comics; 6-10 right — under average American who may lose some priceless freedoms; 0-5 right — Americans who might consider taking up residence in the Siberian straits.

- Where does the United States flag fly continuously night and day?  
 a. Tomb of the Unknown Soldier b. Capitol Building c. Pentagon
- What is our national motto?  
 a. In God We Trust b. E Pluribus Unum c. Liberty and Justice for All
- What is the minimum age for a candidate for the House of Representatives?  
 a. 20 b. 25 c. 30

4. If both the president and vice president should die, who would become president?  
 a. Secretary of State b. Chairman Pro Tem of the Senate c. Speaker of the House

5. By what margin must Congress vote to pass a bill over the veto of the president?  
 a. 2/3 b. 3/5 c. 3/4

6. Who has the power to impeach the president?  
 a. Supreme Court b. House of Representatives c. U. S. Senate

7. How may the Constitution be amended?  
 a. By popular vote of the people b. By the State Legislatures c. By Congress

8. Article I of the Constitution prohibits a levy of tax on income. How then is income tax legal?  
 a. It isn't b. Constitution was amended. c. Congress passed a law making it legal.

9. U. S. Senators have always been elected by the people.  
 a. True b. False

10. A bill passed by both houses of Congress may become a law without the signature of the president.  
 a. True b. False

11. Our form of government as guaranteed by the Constitution is a:  
 a. Democracy b. Republic c. Monarchy

12. The annual salary of the president is:  
 a. \$50,000 b. \$100,000 c. \$150,000

13. All revenue raising bills must originate with the:  
 a. President b. House c. U. S. Senate

14. The quote, "Four Score and Seven Years Ago" begins the:  
 a. Declaration of Independence b. Preamble to the Constitution c. Lincoln's Gettysburg Address

15. Are any large group of people living within the continental limits of the United States still denied the right to vote for a president?  
 a. Yes b. No

16. The oldest Supreme Court Justice in years of service is  
 a. Felix Frankfurter b. Hugo Black c. William Douglas

17. The author of the Declaration of Independence was  
 a. Benjamin Franklin b. Thomas Jefferson c. John Adams

18. Our National Anthem was written by Francis Scott Key during  
 a. The Revolutionary War b. Civil War c. War of 1812

19. An American president has the power to make treaties with foreign powers without consulting Congress.  
 a. True b. False

20. Under our Constitution, it is illegal to be a member of the Communist Party.  
 a. True b. False

Classified information is the key to our defenses. Guard it well.



**Answers:**

- b; 2. a; 3. b; 4. c; 5. a; 6. b; 7. b, c; 8. b; 9. b; 10. a; 11. b; 12. b; 13. b; 14. c; 15. a — Residents of Washington, D. C. can not vote in national elections; 16. b; 17. b; 18. c; 19. b; 20. False. It is not illegal to be a member of the Communist Party. However, the Internal Security Act passed by Congress in 1950 requires registration with the Attorney General's office of all Communist action organizations and their members. This law was recently declared to be constitutional by the Supreme Court, and the party is now under indictment for refusing to surrender names of party members.

**Densitometers Subject Of Photographers' Meet**

The Industrial and Research Photographic Society of Oak Ridge will hold a special meeting tomorrow, Thursday, January 18 at 7 p.m. Featured speaker will be C. R. Williams of the Welch Scientific Co., Chicago. He will discuss the subject, "Densitometers," and their uses in photography and other fields where precise instruments are needed for density readings. He will also demonstrate the Welch densitometer.

One does not have to be a member to attend. Anyone wishing details should contact Joe Jernigen, extension 7939, or Oak Ridge telephone 483-6833.

**Technical German Class Given At High School**

A course in technical German will be presented at the Adult Education classes at the Oak Ridge High School, beginning tonight, January 17 at 7:30 p.m. Intended to prepare students for the graduate language reading examinations, the course will be taught by Oak Ridge National Laboratory's Ernest Silver. Additional information may be obtained from C. V. Chester, extension 6728, or by calling the Oak Ridge High School Adult Education Office. Registrations will be accepted up through the first class tonight.



"Get a load of the size of that old crab."