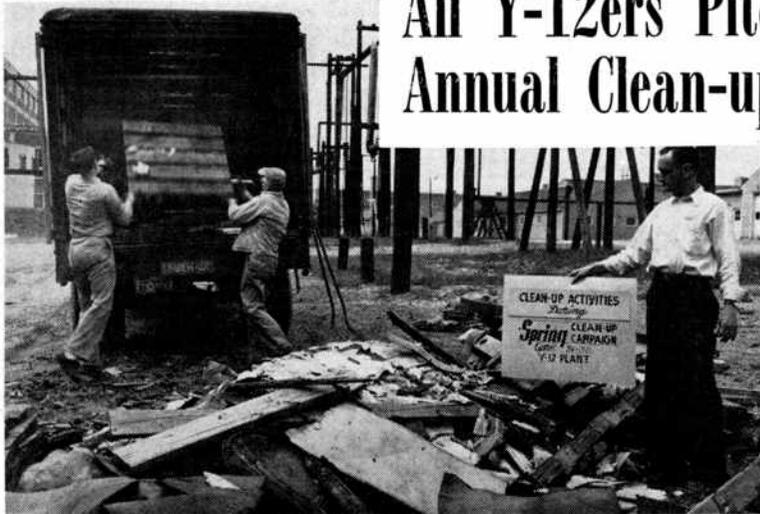


## All Y-12ers Pitching In To Make Annual Clean-up Week Successful; Interest Is High



Although the annual Spring Clean-Up Week was not actually scheduled to get underway until Monday of this week, a lot of Y-12 departments and groups got a running start on their activities before the official opening. As a result, a lot of preliminary work toward making the big plant area spic and span from end to end was accomplished and with concerted efforts planned from many other quarters this week indications point to a most successful face-lifting operation for all of Y-12.

**All Are Reminded of Work**  
If any Y-12ers were not aware of the occasion, reminders blossomed throughout the plant in the form of signs, posters, stamped mail and messages from various divisional fire, safety and security coordinators that the Clean-Up Week was in progress. In addition to the special squads that last week began removing debris and trash that had accumulated during the winter, other groups of workers in the field and inside many buildings rolled up their sleeves Monday to participate in the spring cleaning that matched the best efforts of many meticulous housewives.

Recommendations for specific action in improving appearances of various locations were made in many particular instances following preliminary inspections. Similar inspections will be made toward the end of this week to see that the instructions were carried out.

**Will Remove Accident Hazards**  
The objective of the annual Spring Clean-Up Week movement, (Continued on Page 2)

### SAFETY SCOREBOARD

Your Plant Has  
**Operated**  
**306 DAYS**  
**Without A Lost Time**  
**Accident**  
**THROUGH APRIL 23**

## Four-Day Week Ends Are Planned On Memorial, Independence Days

A rearrangement of working hours during the weeks of May 29 and July 3 will give Y-12 employees a four-day week end holiday to observe Memorial Day and Independence Day. Both of the holidays fall on Tuesday this year.

In the weeks of May 29 and July 3, day employees (both hourly and salaried) whose regular work week is Monday through Friday will be scheduled to work Wednesday through Saturday, thus providing the four-day week end.

No Y-12ers will be required to work during this period except those employees whose presence at work is necessary to assure the continuous operation and protection of the plant such as the skeleton forces which are required to work on a normal Saturday or Sunday.

Absences occurring on the days immediately preceding or following holidays will not be excused except on an emergency basis, in which case the approval of the Division Superintendent must be obtained.

### ATOMIC CENTER PLANNED

The Washington Times-Herald has reported that Surgeon Gen. Leonard A. Scheele, of the United States Public Health Service, has been appointed to the advisory committee of the Michigan Memorial Phoenix project. He will give advice on plans for the atomic research center to be established at the University of Michigan.



Y-12ERS FROM ONE END OF THE PLANT TO THE OTHER were proudly looking over their individual safety award distributed last week. In the picture at left J. C. Nelson, Ruybe McCloud and H. E. Patterson, all of the Chemical Department, display the lantern, woman's compact and the thermos bottle that were among the available awards. At right a group in the Stores Department have a big time over several fishing tackle boxes chosen by employees in

## Y-12 Motorists Asked To Assist In Traffic Move

Cooperation of Y-12 motorists in efforts to reduce traffic hazards on the Bear Creek Road, particularly during afternoon rush hours, has been requested. It is hoped to eliminate congestion and lane-switching that has existed in the past.

Drivers from the West Portal are requested to remain in the left lane of traffic next to the center line on Bear Creek Road and motorists from the North Portal are urged to meld with this traffic past the intersection of the road from the East Portal, allowing the East Portal traffic to enter the right lane of Bear Creek Road without delay.

Exception to this arrangement may be taken by drivers intending to turn right on Scarboro Road heading for Knoxville. These drivers may take the right hand lane but others heading for Oak Ridge are urged to remain on the left side as much as possible.

Atomic Energy Commission traffic patrolmen will be on duty this week on Bear Creek Road to assist motorists in avoiding congestion and expediting travel away from the plant area.

## APS Papers Are Based On Isotopes From Y-12

At the Washington, D. C., meeting of the American Physical Society Thursday, Friday and Saturday of this week at least nine papers will be presented based on research done with stable isotopes electromagnetically-produced in Y-12. However, none of the papers will be offered by a Y-12 employee, although three will attend the meeting.

The three Y-12ers going to the sessions are Dr. C. E. Normand, L. O. Love and Frank J. Gordon. All are in the Isotope Research and Production Department.

### CYCLOTRON TREATS CANCER

The Baltimore Sun has reported that Dr. C. A. Tobias has informed an Atomic Energy Commission conference at Los Angeles, Cal., that the cyclotron at the University of California, Berkeley, has been used successfully in treating rat cancer.

## 26 Shipments Of Y-12 Isotopes Made In March

The Y-12 Isotope Research and Production Department continued its steady flow of shipments of electromagnetically-produced stable isotopes to laboratories and research institutions throughout the country during March.

During March a total of 26 shipments of stable isotopes of 14 elements were sent to 15 different institutions. Of these institutions, five are operated by the Atomic Energy Commission and the remainder were universities or privately operated laboratories.

### General Electric Gets Most

The General Electric Co. Research Laboratory, operated by the AEC, received the most shipments, getting four. The stable isotopes sent there were Titanium 50, Iron 58, Nickel 58 and Zirconium 92.

Radiation Laboratory of the University of California, another AEC project, received three shipments, they being Lithium 6, Zirconium 90 and Strontium 84. The Oak Ridge National Laboratory also received three shipments, they being Calcium 44, Cerium 140 and Sulphur 32.

Two shipments were sent to the Argonne National Laboratory, they being Thallium 203 and Iron 58. The Los Alamos Scientific Laboratory received one shipment of stable isotopes of Lithium 6. These also are AEC-operated units.

### Massachusetts Tech Receives Three

The Massachusetts Institute of Technology got the largest number of shipments sent to private institutions. Stable isotopes of Thallium 203 and 205 and of Lithium 6 were requested by that university. The Bartel Research Foundation received shipments of Silicon 28 and Silicon 29.

Other shipments to university and commercial laboratories were Potassium 40 to the University of Minnesota, Mercury 202 to Westinghouse Research Laboratories, Silver 107 to University of Indiana, Sulphur 33 to Harvard, Lithium 6 to Princeton and Northwestern Universities, Strontium 84 to the University of Chicago and Sulphur 33 to the University of Iowa.



Y-12 Photos By Vince Moore the department. J. D. McGuffin, center, is showing the skull of a very deceased and large fish of the kind, he says, was caught by him with tackle carried in such a fine box. The women-folks surrounding him dangle sardines as a symbol of what they believed he hooked. The feminine anglers, from left, are Edith Cruce, Mary Nell Smith, Margaret Johnson, Mary Margaret Norton and Mrs. W. R. Kelly.

# The Bulletin

Published Weekly By And For  
Y-12 Employees OF  
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Oak Ridge Tenn.  
GEORGE W. DOBBS . . . . Editor

OFFICE  
North Portal, Bldg. 9701-1  
Telephone 7-8252

## Chemical Takes First Place In Standings

The two top departments in the Major League attendance standings for the week ending April 9 exchanged places the following week, latest reporting period, while the third place department maintained its position. The Chemical Department advanced from second place to first for the week ending April 16, replacing Field Maintenance, which dropped to second place. Third place was held by Buildings and Grounds.

In advancing to the top of the standings, Chemical reported .3 per cent of its personnel absent. Field Maintenance had an absentee record of 1.5 per cent and Buildings and Grounds had 1.69 per cent of its employees absent.

### Seven Have Perfect Records

In the Minor League seven departments reported perfect attendance records for the week ending April 16, the same number as in the previous week. However, only three were repeaters, they being Transportation, Cafeteria and Canteen and Maintenance Utilities.

Joining this trio were Property, Plant Engineering, Steam Plant and Receiving and Shipping. They advanced from second, sixth, seventh and eighth places held the preceding week.

Employee Relations held second place in the Minor League with an absentee mark of 1.3 per cent. In third place was Manufacturing Offices, with an absentee record of 1.7 per cent. Both of these departments were in a first-place tie the preceding week with all present records.

### Plant Record Is Improved

The plant-wide absentee record dropped .1 per cent for the week ending April 16 from the preceding week, the latest figure being 2.5 per cent. The plant-wide record, by departments, follows:

MAJOR LEAGUE			
More Than 50 Employees Scheduled			
Dept.	Absent	Percentage	Standing
2619	0.3	1	2
2015	1.5	2	1
2014	1.69	3	3
2360	1.70	4	10
2300	2.0	5	11
2091	2.1	6	5
2077	2.3	7	6
2003	3.0	8	8
2616	3.6	9	9
2282	3.7	10	12
2283	3.9	11	4
2142	5.2	12	7
2320	5.9	13	13

Group absentee percentage was 2.9 per cent, .3 per cent higher than the preceding week.

MINOR LEAGUE			
15-49 Employees Scheduled			
Dept.	Absent	Percentage	Standing
2008	0.0	1	1
2107	0.0	1	1
2005	0.0	1	1
2140	0.0	1	2
2060	0.0	1	6
2743	0.0	1	7
2143	0.0	1	8
2109	1.3	2	1
2133	1.7	3	1
2002	2.1	4	1
2739	2.7	5	1
2200	2.9	6	9
2001	3.7	7	5
2270	4.0	8	4

Group absentee percentage was 1.5 per cent, .5 per cent lower than the preceding week.

The plant average for the week ending April 16 was 2.5 per cent, .1 per cent lower than the preceding week.

### COLUMBIA HAS NEW LAB

Columbia University has announced that construction of the new low-temperature laboratory is nearing completion, according to the New York Times. Research will be coordinated with the nuclear physics program of the university.



6-1355  
A GROUP OF Y-12 WIVES WHO HAD ATTRACTIVE ENTRIES in the Oak Ridge African Violet Society display last Thursday at Ridge Hall are pictured above. In the picture at the left, from left, are Mesdames Roy Vinyard, Miles Bradford, Ray Ledford, John Price, H. M. McLeod, C. P. Keim and R. G. Boxley. They are



6-1353  
Y-12 Photos By Vince Moore  
admiring a joint entry by Mrs. Bradford and Mrs. St. John W. Davis that featured the Spring Clean-Up theme. At right are some of the exhibits by the Y-12 members of the society. The large display at right is by Mrs. Ledford while the exhibit by Mrs. Vinyard is on the square table at rear. The plants in the swan pot were shown by Mrs. Price.



Bill (W. T. on the payroll) Hays, of the Y-12 Security Office, wished to convey certain information to questioners about his recent ailment and how come. Bill says—(1) He did not get the little toe of his right foot caught in a lawn mower—(2) He did not jump out of a second story window—(3) He was not bitten by (a) fish (b) dog (c) any other kind of animal—(4) He's tired of it all. Just for the record, he continued, he had an operation for a hickey (benign tumor to the medics) on the pedal digit and is getting well rapidly—he thanks you.

Martha Parks, of Plant Records, was maid of honor at the wedding of her brother at Cleveland, Tenn., April 19.

Nancy Doane, of Chemical Research, is vacationing for two weeks at her home in Cynthiana, Ky. . . . Don Phillips and family spent a recent week end with his daughter in Fayetteville, N. C. . . . The department extends get-well-quick wishes to Emily Leyshon, ill in the Oak Ridge Hospital, and also to Corinne Lattimore, who has been ailing for some time.

Betty Jo Butler, of Employee Relations, and her mother, Meta Butler, of Wage Standards, went over to Camden, Tenn., for a recent week-end trip.

Electrical Maintenance reports F. A. Watson spent a vacation of one week right at home in Oak Ridge . . . Get-well wishes are sent to Sam King . . . B. W. Beckham vacationed for a week at home in Oak Ridge.

J. B. Quinn, of the Guard Department, is vacationing for two weeks and during that time he will spend a few days with a former Y-12er, E. E. Turner, in Pineville, Ky., while the rest of the time he plans to do a lot of fishing on Cherokee Lake . . . L. R. Stansberry also is vacationing for two weeks at his home in Lake City.

Field Maintenance extended a warm welcome back to work for Richard Eubanks, who has been ill. Dr. Felix Bloch, from Stanford University, Palo Alto, Cal., was a visitor to the Isotope Research and Production Department for two days last week as a consultant . . . Roy Roseberry is going to Memphis April 27, 28 and 29 to attend the state high school band festival.

Frank W. Gallagher, of Planning and Estimating, is receiving get well wishes from the department.

Fred Kappelman, Y-12 athlete of note, is in the Baptist Hospital in Knoxville recovering from a trick knee . . . In a bedside to desk telephone conversation with Y-12 friends last Friday he predicted he would be back soon with a brand new joint and be ready to do some baseballing for the dear old Cardinals before long.

He is with Isotope Research and Production.

Dr. Paul D. Scofield, Y-12 Medical Director, is in Chicago this week attending a meeting of the American Association of Industrial Physicians and Surgeons.

J. L. Hamon has told fellow employees in Stores that he has moved into his new home near Oliver Springs . . . Margaret Johnson and a group of fellow fishing enthusiasts went over to Ft. Loudoun Lake near Concord a few days ago. Margaret managed to fall in the lake in pursuit of a fleeing fish (foul—two shots) but anyway the group came back with 15 fine frying specimens.

Hazel Tompkins, of Manufacturing Offices, was called home last week because of the illness of her mother . . . Walcott Watson has been named chairman of a Community Playhouse board of directors committee to nominate new members of the board. Evan Means, of Electrical Maintenance, is a member of the board whose term expires in June.

Mary Lou Pate, of the Superintendents Department, was ill last week in the Oak Ridge Hospital and had the best get-well-quick wishes from fellow employees.

Receiving and Shipping tells us that M. R. Redmon is spending a two-week vacation over in Wartburg and plans to do some fishing.

L. V. Thornton, of the Property Department, traveled a far piece to engage in manual labor, going to Rochester, N. Y., for a week to help his brother do some house repairing . . . Olyne Poindexter spent the past week end in Nashville visiting friends.

Carl A. Cooper, Sr., of Wage Standards, spent the past week end with his brother in Nashville.

Mrs. Jacinta Howard, wife of Dr. W. T. Howard, of Y-12, has told of musical activities in Oak Ridge in an article published recently in Musical America . . . Mrs. Howard is one of the city's finer musicians.

Emmett Moore, former Y-12er in the Fire Department and a softballer of ability, dropped a note to The Bulletin last week wanting to be remembered to all his friends in the plant. His address is Marian, Va., Route No. 1, in case anybody wants to write.

## British Claiming First Atom Power

In a recent news story the London Daily Mirror claims that British scientists soon will present to the cabinet plans for what is described as the world's first atomic engines for ships and the first atomic electric plants. The Mirror reports that research work leading to the project was done by a team of scientists at Harwell, the British atomic research center.

## All Y-12ers Pitching In Clean-Up Week

(Continued from Page 1)

observed throughout the nation, is not only to improve the appearance of the plant but also to make it a safer place in which to work. During the campaign special attention will be paid to removing possible accident hazards as well as to clean up the plant.

Fire Chief John W. Hughey and the coordinators all declared that advance responses to the annual announcement of Clean-Up Week observance exceeded those of previous years with many requests for instructions being received. Specific plans were made for the removal of several old and unused building and fences as well as for cleaning up roads and cutting grass throughout the plant. Close attention is likewise being given laboratories and shops to remove excess materials and make them more presentable in appearance. The movement also extends to offices, where files, desks and vaults are being thoroughly cleaned.

### Coordinators Work With Chief

Working with Chief Hughey and members of the fire prevention and inspection department and also with Supervision in their various divisions in efforts to unify all campaign efforts are Coordinators Ward Foster, Research and Development; W. M. Hopkins, Engineering; W. A. Davis, Manufacturing Offices; Nelson Tibbatts, Maintenance; W. S. Herron, Chemical; and Lee Bagwell, Industrial Relations.

## Y-12 Men Attend Trappist Three-Day Retreat Rites

A group of seven Y-12 men attended a three-day retreat at the Trappist monastery "Our Lady Of The Gethesmane" in Kentucky, near Bardstown, over the past week end. The observance began at noon Friday and extended to 6 o'clock Sunday night.

Making the pilgrimage were John Schmitt and William Lukeman, of Chemical Research; John Murphy, Electromagnetic Research Laboratory; J. Rand McNally and Henry Morgan, Isotope Research and Production; Pat Ridge, Analytical Laboratory; and Don Ross, Health Physics and Hygiene.

The noted monastery is internationally known to churchmen and laymen alike and is located in a picturesque hilly section of Kentucky about 14 miles south of Bardstown and about 50 miles from Louisville.

### SECURITY STUDY SET

The Washington News recently reported that the Justice Department of the United States is setting up an interdepartmental committee to study problems of internal security. The study will include methods of protecting government documents that are considered confidential.



The following Y-12 employees were patients in the Oak Ridge Hospital last week: Emily Leyshon, Isotope Research and Production; Aleene Carpenter, Analytical Laboratory; Albert F. Neuber, Electromagnetic Research Laboratory; Mary Lou Pate, Superintendents; Claude O. Jones, Electrical Maintenance.

## Reds Attempt 'Voodoo' Tactics In Congo Mines

Communists have introduced "voodoo" tactics in an effort to disrupt activities of African workers in the uranium mines of the Belgian Congo, it is reported in a recent issue of the United Nations World. The latest Communist technique is said to be the use of especially trained sorcerers, or African witch doctors, out of the jungle, via Moscow.

The Belgian Congo is the source of most of America's uranium supplies and the United Nations publication said that the Union Miniere de Haut Katanga, which controls the pitchblende mine at Shinkolobwe, was the first to note the new pattern in disorder among the workers. The Soviet legation at Addis Abbaba is accused of being the center of the network of Communist agents by the Belgian Service of National Security.

The Belgian administration has tightened its controls in the Congo, alerting police to prevent its program for industrial development being endangered by such attacks on the morale of the workers.

## NSRB Gives Advice On Dodging Bombs

The Associated Press in a recent news story asserts that the National Security Resources board has issued a report entitled "Damage From Atomic Explosion and Design of Protective Structures." The report advises builders to erect important structures as far from strategic areas as possible, or put them underground. The Associated Press story reports that the Washington municipal architect says that the city's modern office buildings should stand up as well under an atomic attack as concrete structures that survived atomic bomb attacks on Hiroshima and Nagasaki. The architect added, the news story said, that in Washington only storage warehouses and parking garages are required to have floor load strength as great as those recommended for atom bomb safety by the NSRB report.

The largest room in the world is the room for self improvement.

# SPORTS NEWS

## Y-12ers Defeat Johnson Citians; Dew, Ledford Appointed Managers

Despite some chilly breezes that swept across Pinewood Park last Saturday night, the Y-12 varsity softball teams displayed just about mid-season form in trimming representatives of Johnson City in a double-header. The men took a 6 to 5 decision over the up state nine while the Y-12 lassies trimmed their opponents by 9 to 4.

Ed Sise and Smith twirled for the Y-12ers in their triumph, both showing good form. The catching was taken care of by Hale and Snyder. In the women's game, the crack battery of Pat Roberts and Bonnie Roberts went the route for Y-12. For early season engagements, both games were well played and enjoyed by the athletes and small gathering of fans alike.

The Y-12 teams will play a return engagement at Johnson City later in the season.

Meanwhile it was announced by the Y-12 Recreation Office that Ray Ledford has been appointed manager of the women's softball team and that Richard Dew will pilot the men's team. Ledford is a veteran at the business of directing women softballers and under his capable direction Y-12 has had some splendid teams in past seasons. Dew has played several seasons in the plant league but plans to be a bench manager this season as boss of the masculine softball aggregation. Both managers are

popular with players and fans in Y-12.

No manager has yet been named for the baseball team, but an announcement on this item is expected this week. It also is expected that much more news will be forthcoming during the next few days as to the makeup of the Oak Ridge City League, in which the Cardinals will play.

With the apparent return of spring weather practice sessions will be resumed by all the diamond athletes this week with the hope that bright and warm sunshine will aid in working out any kinks that may have been acquired in muscles during the chilly days of the past. Although the response to calls for players on all three of the Y-12 varsity teams has been good, more players are needed and all employees liking the diamond pastime are urged to turn out as candidates for the teams.

Here is the practice schedule for the next few days:

- Baseball**  
Gamble Valley Park  
May 2, 7:30 p.m. May 5, 5:30 p.m.
- Men's Softball**  
Pinewood Park  
May 2, 5:30 p.m., May 4, 7:30 p.m.
- Women's Softball**  
Fairview School  
May 1 and 3, 5:30 p.m.

## Plant Softball Loop Opens May 15; Practice Schedules Announced

Play in the Y-12 Plant Softball League season will begin Monday, May 15, at Oakwood Park, No. 1, with five, and possibly six, teams competing, it was determined at a meeting of team managers at the Recreation Office last Thursday. Oakwood Park, formerly the principal baseball park in the city, will be used for both baseball and softball this season, it has been announced by the City Recreation Department.

At the meeting last week a constitution and by-laws for league operation were adopted and a schedule for practice sessions at Oakwood Park worked out. Officers of the league will be elected at a later date.

Teams now entered in the league are the Rippers, All Stars, Isotopes, Bums and Bldg. 9212. Efforts now are being made to organize a sixth team to play in the loop.

League games will be played on Monday and Wednesday nights at Oakwood Park and the league schedule will be prepared within the next few days.

The practice schedule through Wednesday, May 10, follows:

- Wednesday, April 26, 6 p.m., All Stars and Rippers. 7 p.m., Bums and Isotopes. 8 p.m., Bldg. 9212.
- Monday, May 1, 6 p.m., All Stars and Rippers. 7 p.m., Bums and Bldg. 9212. 8 p.m., Isotopes.
- Wednesday, May 3, 6 p.m., All Stars and Bldg. 9212. 7 p.m., Isotopes and Rippers. 8 p.m., Bums.
- Monday, May 8, 6 p.m., Bldg. 9212 and Isotopes. 7 p.m., Bums and All Stars. 8 p.m., Rippers.
- Wednesday, May 10, 6 p.m., All Stars and Rippers. 7 p.m., Bums and Isotopes. 8 p.m., Bldg. 9212.

## Address On Refrigeration

### On ASME Meeting Program

Y-12 members of the Oak Ridge Section of the American Society of Mechanical Engineers have been urged to attend a meeting of the section at 8 o'clock Thursday night, April 27, in the West Lounge of the Ridge Recreation Hall. The session also is open to the public.

R. W. McLaughlin, director of development of the Carrier Corporation, will be the principal speaker on the program. His topic will be "Centrifugal Refrigeration" and will include information on interesting new developments and applications in the field of refrigeration.

## Monthly Chemical Seminar

### Session Starts This Week

Regular monthly chemical seminar meetings will be inaugurated for interested scientists in Oak Ridge at 4 o'clock this afternoon, Wednesday, April 26, in the East Lounge of the Ridge Recreation Hall. All Y-12 chemists are invited to participate in the seminar sessions.

Dr. Milton Burton, of the University of Notre Dame, will lead the discussion at the first seminar session. The topic of discussion will be "Contributions of the Negative Ion in Radiation Chemistry."

## Plant Growth Without Soil

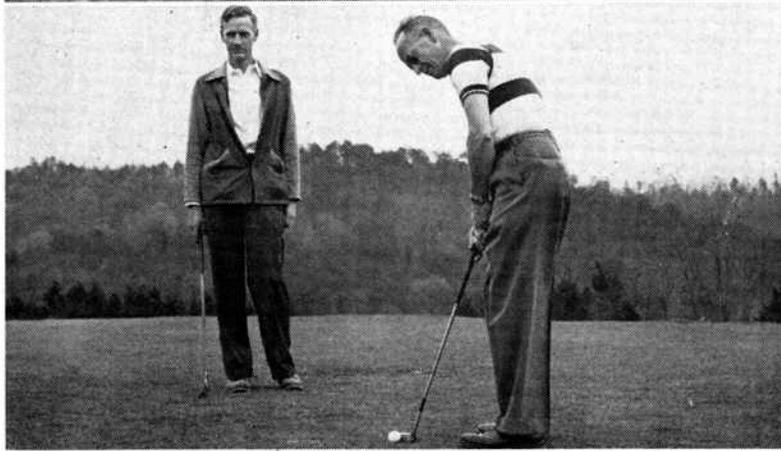
### Topic Of Y-12er's Radio Talk

V. C. Jackson, of the Y-12 Analytical Laboratory, will be interviewed on "Soil-less Agriculture" on the weekly radio program, Headlines in Chemistry, to be presented at 9:15 o'clock Sunday night, April 30, over Oak Ridge Station WATO. The program is sponsored by the East Tennessee Section of the American Chemical Society.

Jackson has just recently taken up soil-less agriculture as a hobby. He points out that theoretically any plant can be grown without use of soil. This is done by feeding plants the same chemicals they receive in soil feeding but administered in a solution of water. Jackson now is carrying out experiments with tomato plants grown without soil.

## HOW SMALL IS BARN?

Atomic Energy Commission scientists now are working on creation's tiniest dimension, it is reported by the Washington Star. It is the "barn," which is described as about a 60th of a trillionth of a trillionth of one square inch. The barn is the operating range within which a force which binds together particles in the nucleus of an atom.



GOLFERS OF Y-12 OFFICIALLY LAUNCHED THE PLANT LEAGUE SEASON LAST week with matches at the Oak Ridge Golf and Country Club. Members of the Deacons and Left Overs teams prepare to begin their season-opening match in the top picture. From left are Fes Lowery, Clarence Johnson, Joe White, Gentry Underwood, Bill Morgan, Phil Rueff, Cliff Henderson and G. W. Keilhoitz. Just below them George Mitchel stands by as Harold Ratjen lines up a putt. At right Doug Lavers and Clyde Bowles talk things over before starting around the course.

## B League To Complete Last Round This Week

Another one of those photo-finished so prevalent around Y-12 sports circles, looms in the B League of plant bowlers as the final action of the third round of play is scheduled for Thursday night of this week at the Oak Terrace alleys. The third-round race is strictly a two-team affair, however, between Maintenance and Rippers, with the first named team having a two-point advantage going into the crucial matches. The Maintenance keglers roll against One-91 and the Rippers clash with the Comets in the tilts this week.

### Rippers Pick Up One Point

The Rippers picked up one point on the loop-leaders last Thursday night by whitewashing the Mules while Maintenance took three out of four points from the Tigers. In other league matches last week the Wolves walloped the Comets for three, the Head Pins blanked the Bumpers, the Cubs and One-91 split even at two points each and the Bums bounced the All Stars for three.

Maintenance rolled in championship style last week by posting the high scratch series of the night of 2,558 and the third-round high handicap series of 3,077. The Wolves had the best scratch single game of 867 while the Tigers, although losing, turned in the best handicap single game of 1,049.

### Riddle Has Top Series Scores

George Riddle, of Maintenance, aided his team by posting the best series scores of 573 scratch, boosted to 660 with handicap. Elmore Koons, of the Rippers, had the highest scratch single game of the night with 213 and George Graham, of the Tigers, came through with a 243 handicap single game for tops on the program.

After completion of the third round of play the B League will stage a roll-off for seasonal honors. The Wolves won the first round and the Rippers took second round honors and these two teams with the winner of the third round will compete for the championship. Following this event, the winners of the three leagues of plant bowlers will clash for trophies.

### League standing follows:

Team	W	L	Team	W	L
Maintenance	30	10	One-91	18	22
Rippers	28	12	Tigers	17	23
Bumpers	23	17	Comets	17	23
Wolves	23	17	Bums	17	23
All Stars	19	21	Cubs	15	25
Head Pins	19	21	Mules	13	27

## Golfers Of Y-12 Open Season; Reynolds' 39 Is Best First Round

The Y-12 Plant Golf League got away to an auspicious start last week with some close matches and good individual scoring posted in the initial days of play. Indications point to the 1950 season being one of the best enjoyed by the divot diggers of the plant.

There was some confusion over scoring rules and handicaps in the first few matches, but this soon was dissipated. It was pointed out by the Recreation Office that handicaps for all league players will be changed weekly for the first three weeks of reported scores but will remain fixed for four weeks after that period.

## Women Bowlers Of Y-12 Win Two Games From Norris Team

The varsity keglers of Y-12 milked Norris Creamery for two victories to one in their Oak Ridge City League bowling match last Thursday night at Oak Terrace to maintain their eighth place in the loop, just two games out of seventh. During the past six weeks or so the Y-12ers have been posting the best records in the league.

The Y-12ers reversed history somewhat last week. In some past encounters they have outscored the opposition but lost games; but against Norris they dropped total pinnage, yet came out on top. The victors took the first game by 732 to 702 but took a drubbing in the second 800 to 706. A rally brought a 787 to 735 triumph in the final tilt for Y-12 with the total scores being 2,225 for Y-12 and 2,237 for Norris.

The score of 152 proved popular with the Y-12ers last Thursday, five such games being posted during the match. Individual scoring was close with Olyne Poindexter leading after games of 152, 149, 166-467. Then came Margaret O'Neal with 152, 135, 156-443; Ruth Law 134, 152, 152-438; Daisy Ward 152, 106, 174-432; and Katie Williams 123, 145, 120-388.

## Varsity Keglers Whitewash Williams Raiders Pin Team

A clean sweep of three games and total pinnage from the Williams Raiders on April 18 boosted the Y-12 varsity bowling team into a third-place tie in the Oak Ridge City League and but for a slow start the Y-12ers might now be battling for the lead in the loop. The Y-12 keglers scored games of 812, 824, 793-2,429 to 776, 787, 787-2,250 for the Raiders.

Although the Y-12ers failed to post a single 200 game, the scores of the quintet were well bunched. Frank Gragg topped the scorers with 183, 194 149-526; followed by Elmore Koons 162, 151, 181-494; Ernie Cobble 151, 174, 166-491; Rudy Pletz 174, 146, 142-426; and Conrad Roberts 142, 159, 155-456.

Time wasted getting even could be saved getting ahead.

### Schedule Is Announced

The league schedule for matches of Wednesday, April 26, through Tuesday, May 2, follows:

- April 26—Left Overs vs Four Woods.
- April 27—Deacons vs Rough Riders, Chippers vs Green Rays.
- April 28—Four Hundreds vs Rippers.
- May 2—Green Rays vs Four Hundreds.

In matches last week the Rough Riders defeated Bldg. 9212 by 14-22, the Deacons took the Left Overs 17-19 and the Four Hundreds trounced the Four Woods 10-26. The clash between the Hooks and Green Rays resulted in an 18-18 tie, as did a match between the Rippers and Chippers.

### Reynolds Has Best Round

Bill Reynolds propelled the pellet around the pasture in 39 pokes for the most proficient scratch score last week. Fes Lowery and Keith Brown tied at 32 each for the best handicap round. The Hooks had the best scratch score with 180 and the same team whittled that down to 145 with handicap to also lead in that bracket.

A budget tells us what we can't afford—but doesn't keep us from buying it.

### SON OF FORMER Y-12ER

#### ROLLS 279 PIN GAME

Roy Roberts and some of the other top Y-12 bowlers as well as all ranking keglers in Oak Ridge better prepare to move over—as a son of a former Y-12er and bowling enthusiast is threatening to get into the act.

Dick Tucker, 13, son of George Tucker, the former Y-12er, stalked up to the line at the Central alleys recently and blasted a 279 scratch score. He had nine straight strikes and a 300 perfect score was in sight—but the 10th pin remained standing in the 10th frame. Dick calmly toppled it over and went on to throw another strike to post his fine score.

**More Sport News  
On Page Four**

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## Company Produces Approximately 250 Chemicals For Industry

Two divisions make up the chemicals group of the Union Carbide and Carbon Corporation. They are Carbide and Carbon Chemicals Division and Carbide and Carbon Chemicals, Limited. The chemicals produced by this group are used by every major industry in the country to manufacture things that are found on our farms and in our factories and homes.

What are these chemicals made from? All of the raw materials that are used are found in abundance in America. They include natural gas, the gases of petroleum from oil refineries, the gases of coal from coke ovens and such other simple things as chlorine, lime, sulfur and ammonia.

At present, the chemicals group produces some 250 chemicals in commercial quantities. Consumers include manufacturers in the automobile, aviation, chemical, paper, oil, drug, photographic, plastic, printing, rayon, rubber, textile, metals, and other industries. They fall into different product groups, including acetals, acids, alcohols, aldehydes, anhydrides, chlorine compounds, ethers and oxides, glycols glycol ethers, hydrocarbons, hydroxyethyl cellulose, ketones, nitrogen compounds, plasticizers, polyethylene glycols, and water soluble waxes and wetting agents.

Here are a few of the limitless uses of these chemicals.

Sufferers from hay fever or asthma may receive treatment from benadryl or pyrabenzamine. Both these medicines are made with the help of dimethylethanolamine and both are nitrogen compounds. Sinus infections are treated with penicillin and the chances are that the penicillin was extracted from the mold in which it grows by a chemical made at a Carbide and Carbon Chemicals Division plant.

### Vitamins Aided By Carbide Product

Another wonder drug, streptomycin, is made similarly, while sulfa drugs, and several of the vitamins are made with the aid of a Carbide chemical, acetic anhydride. Even a rubbing alcohol for sore muscles is made by Carbide.

Your brushless shaving cream may be made with a material called propylene glycol. This glycol, and other chemical, triethanolamine, are the ingredients that made vanishing cream smooth. Your rayon dresses and shirt collars may have been made shrinkproof with glyoxal.

All these are chemicals made by Carbide.

Other chemicals do not have to be reconverted by industry. They are used "as is." They include an anti-freeze, insect repellents and a gas which is used for cooking and heating wherever city gas is not available. Another important special product is an addition to water to make it a far more effective fire fighting agent.

### Plastics Also Are Produced

Not all of the chemicals are liquids or gases. Many of the new handbags, shoes, shower curtains, aprons, raincoats, and other such colorful merchandise sold in the stores all over the country are made of plastics produced at Carbide plants in the form of powders for the manufacture of adhesives, interlayers for safety glass, cloth coatings for raincoats, molded and extruded articles, sheets, films, lacquers, wire and cable coatings, bristles, and a variety of other products. The latest of the plastic products are the long-play-

ing phonograph records on which an entire opera can be recorded.

From these chemicals made by Carbide and Carbon Chemicals Division, industry makes for us the comforts of everyday living, homes, clothes, medicines for the protection of health, automobiles, trains, and airplanes. There is virtually no limit to the variety of chemicals that can and will be produced by the chemical groups of Union Carbide and Carbon Corporation.

Don't take a chance in traffic. It may be some child's chance to live.



**Y-12 BOWLERS WERE BEAMING LAST WEEK AS TROPHIES WERE HANDED OUT TO** winning teams and individuals in the recent plant bowling tournament. Practically all members of the four teams that won first and second honors in scratch and handicap scoring turned out to have their pictures taken and receive prizes. Front row, from left, are Tunnell, Gragg, Savage and Caldwell, of the Termites, first place winners in scratch scoring. Then come Duckworth, Banic, Killian, Walton and Rathkamp, of the Hornets, the top team in handicap scoring. In the back row are Sise, Sherrod, Cobble and Martin, of the Wolves, runners-up to the Termites. Next are Tiller, Burns and Whitman, of the Strikers, second place team in handicap scoring. Gragg rolled both with the Wolves and Termites and Duckworth also was a member of the Hornets and Strikers.



**THESE Y-12 KEGLERS ARE LOADED—WITH TROPHIES,** that is—for taking top honors in the plant bowling tournament held recently. In the picture at the left, from left to right, are Cecil Hubbard with trophies for having the best handicap single game and also being a member of the winning doubles team with handicap score; Tommy Hendricks, highest single game of tournament and highest handicap series; and Roy Roberts, high scratch all events



and high scratch singles series. At right are the winning doubles teams. From left are Arnold Tiller and Hubbard, who won handicap honors; while at right are Harold Ratjen and Leo Caldwell, posters of the best scratch score. Not present when the pictures were made were Conrad Roberts, runner-up in scratch series scoring; and Fred Kappelmann, tops in all events handicap scoring. Their trophies are shown on the ground in these pictures.

## Work On North Portal Parking Project Expected To Start Soon

The Atomic Energy Commission last week announced that the Harrison Construction Co., of Maryville, Tenn., had submitted the low bid of \$53,443 for improvement of the Y-12 North Portal parking area. It was expected that the contract for the work will be signed and actual construction started within the next three weeks.

## Reds Report Radiation Shield

The Washington Star declares in a recent news story that the Russians have discovered, and are making large scale preparations, to immunize an army of 20,000,000 men against atomic bomb radiation. The Washington paper says it received its information in an interview with a German surgeon who worked closely with Russian scientists.

The immunization procedure, the Star says, consists of use of insulin and certain hormones of the adrenal cortex with especially treated elements which will protect humans against radiation sickness for a period of three days. The Washington paper says the story was checked with various clinical physicists in New York who assured that the Russian development is perfectly feasible, although perhaps not with blanket effectiveness.

The improvement work will include site preparation, drainage structures, concrete curb and gutter and hot asphaltic concrete surfacing. When completed, the reconstructed parking area will provide space for 278 vehicles with sidewalks separating several parking lanes.

A period of 90 calendar days will be allowed for completion of the work.

Meanwhile, work is progressing on leveling the area just west of the North Portal parking area to provide temporary parking space during the improvement work.

In addition to the Y-12 project, the Harrison firm also submitted the low bid for widening of approximately two and one-half miles of the Oak Ridge Turnpike near the K-25 plant. The bid for this project was \$58,600. The section of the road to be widened will start at a point opposite the K-25 plant and extended east of the junction of the Turnpike and White Wing Road for several hundred feet. A period of 60 calendar days will be allowed for completion of this project.

## IN WHICH THE MAYOR DECREES CONSTABLE SHALL PINCH BOMBERS

Village folks in the French community of Vacluse-la-Fontain may now rest at ease over any possible attacks by atomic bombs or hydrogen bombs. It's against the law.

Mayor Jean Garcin has published a village law to the effect that the village constable will arrest anyone "transporting" or "using" atomic bombs or hydrogen bombs over the territory of the village.

The action was noted by the Paris correspondent of the New York Times.

## AEC Wants No Part Of Iowan's H-Bomb

The Memphis Commercial Appeal recently reported that an Iowa research scientist, Dr. Ralph Lucas, claimed he had made a model hydrogen bomb that could be activated within 12 hours. Dr. Lucas, the paper said, had notified Atomic Energy Commissioners of his claim.

However, a Washington spokesman says the AEC has no knowledge on the reported invention and expressed hope that the Iowan "will not bring it around here," the Memphis paper said.

Taking things easy soon makes life hard.

## Hopes Of Child For Atomic Use Echoed By Dean

Speaking at the Bridgeport, Conn., Community Forum recently, Commissioner Gordon Dean, of the Atomic Energy Commission, cited an example of the faith and the hope of Americans concerning the peacetime possibilities for atomic energy. The example was an essay written by Mary H., a second grader at a Providence, R. I., school. It was entitled, "Good Atoms," and is reprinted here.

"Everything is made of atoms. When we learn more about how valuable these atoms are, people will be very happy. We will know more about medicine to keep people well. The farmer will know how to have better crops. The business man will have machines and better things to sell. Everybody will be happier."

"All of us feverently hope," commented Commissioner Dean, "that what little Mary H. sees in the future will surely come true—and that only such good uses will be made of atomic energy. We in America have done and will do our best to make this come to pass. I can assure Mary H. that the agency of her government where I am serving is trying to turn her dream of beneficial uses of the atom into a reality."