

Y-12 BULLETIN

A NEWSPAPER BY AND FOR EMPLOYEES OF CARBIDE AND CARBON CHEMICALS CORPORATION IN Y-12

Volume 3, No. 4

58697

OAK RIDGE, TENNESSEE

Tuesday, February 1, 1949

Rigid Security Rules Protect Atom Operations

To maintain the highest possible degree of security for the United States rigid safeguards have been placed around all operations of Atomic Energy Commission facilities that involve work on atomic weapons. Particularly stressed are phases of the security program directed against espionage, sabotage, unauthorized disclosure of restricted data and related matters that could result in production interruptions at any such installation.

In this connection the Y-12 Security Office points out that it is essential that information on all phases of the atomic energy program being carried out in Y-12 be guarded by every employee. Especially important is placed on information concerning details of processes and research being done in this plant. Cooperation of every employee in observing security regulations covering these points is urged for the welfare of the nation. Educational Program Maintained

The Y-12 Security Office maintains an active program of security education. The objective of this education is to instruct all Y-12 personnel on the importance of the information entrusted to them and the continuous need for protecting such information from falling into the possession of unauthorized persons. The educational program also instructs employees in the mechanics of properly protecting the various types of restricted data.

This security program as practiced in Y-12 is in line with the national program of security adopted by the AEC under provisions of the Atomic Energy Act of 1946. This act confers security respon-

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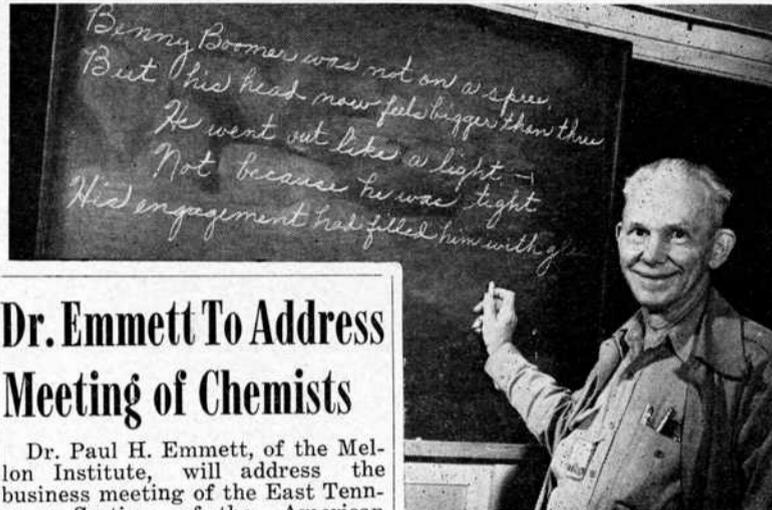
Print Contest Entry Deadline Set For Friday

The deadline for members of the Carbide Camera Club to enter prints in the February contest scheduled for Tuesday, February 8, is Friday, February 4, it has been pointed out by Nat Stetson, club vice president and program chairman. The topic of the photographs will be glass and the entries should be left either at Taylor's Photo Shop or at the home of Stetson, 105 West Magnolia Lane.

The print contest, to be judged by Don Mattern, former president of the Knoxville Camera Club, will be one feature of the regular February meeting of the club. The session will start at 7:30 p.m. in club headquarters in the Y-12 East Portal.

Another feature of the program will be the first of two sessions with the club of Robin Thompson, former Y-12 employee, who will give instructions and criticisms on portrait photography. At the February 8 meeting club members are urged to bring their cameras and other equipment and take pictures of a model after hints are offered by Thompson. At the March 8 meeting Thompson will return and review the results of the portraits made by the club members. At that time Thompson also will exhibit some of his own portrait work.

Joyce Wendolkowski, Dept. A15N, will be the model for the portraits to be taken by the club members next Tuesday night.



Dr. Emmett To Address Meeting of Chemists

Dr. Paul H. Emmett, of the Mellon Institute, will address the business meeting of the East Tennessee Section of the American Chemical Society at 8 p.m. Wednesday, February 2, in the auditorium of the Pine Valley School on New York Ave. All Y-12 chemists are urged to attend the meeting and the dinner at 6:30 p.m. at the Oak Terrace that will precede the business session.

Reservations for the dinner meeting still can be made by Y-12 employees desiring to attend the affair from H.P. House, telephone 7026.

Dr. Emmett is a native of Portland, Ore., and received a B.S. degree in chemical engineering from Oregon State College and a Ph.D. degree in Physical Chemistry at the California Institute of Technology. From August, 1943, to December, 1944, he was with the Manhattan District at Columbia University, New York City.

The topic of Dr. Emmett's Oak Ridge address is "Current Concepts of Physical and Chemical Absorption of Gases on Solids." He was to have spoken at Kingsport Tuesday night and is scheduled to talk at Chattanooga Friday night.

Apartments Cease Desk Service

Y-12 employees living in efficiency apartments in Oak Ridge have been informed that desk service will be discontinued at these establishments February 1. The announcement was made by J. C. McAndrews, supervisor of the Roane-Anderson Co. housing department.

The announcement said individual mail boxes will be placed in the lobbies of Efficiency Apartments A-1, A-2 and A-3. Telephone service at the desks of the apartments also will be discontinued with only pay station service being available in the lobbies in the future.

CHICAGO GOES MODERN

A recent news dispatch from Chicago tells of a large hotel there, the Sherman, now providing baby sitting facilities for its guests on a 24-hour basis.

Dr. C. P. Keim Named As Member Of Oak Ridge Community Chest Board Of Directors For 1949

Dr. Chris P. Keim, Superintendent of the Isotope Development in Y-12, was among the eight Oak Ridge residents elected to three-year terms as members of the board of directors of the Oak Ridge Community Chest at the annual Chest membership meeting held January 21. The board of directors of 24 members also elected Chest officers for the coming year. New officers of the Community Chest are Frank Wilson, president; George Warlick, vice president; Dan F. Brown, secretary-treasurer; and Herbert C. Clark, executive secretary. The new board members, in addition to Dr. Keim, include

Y-12 Photos By Vince Moore
DAVID B. SAMUEL, DEPT. A12M, is shown with a broad grin after adding a last line to the limerick which won him a cash award in a contest conducted by the Industrial Supervisor Magazine which is sponsored by the National Safety Council.

David Samuel Wins Magazine Safety Award

The contest bug has bitten many Y-12 employees during the past several months. The craze, which seldom pays off, apparently hit a snag when Y-12 employees began to enter. A short time ago The Y-12 Bulletin carried a feature on M.B. Hilton, Dept. A13W, when he won a puzzle contest conducted by the Southern Farmer magazine. Hilton's contest was to put as many x's as possible in a two-inch square.

Safety Council Holds Contest

Now another Y-12 employee has joined the chosen few by capitalizing on a contest, conducted monthly by the Industrial Supervisor magazine. The publication is issued by the National Safety Council in the interest of safety in industrial plants.

Their contest is a limerick contest in which the contestant must supply the last line. David B. Samuel, A12M, entered the November contest and for his efforts received a runner-up cash award from the publication.

Samuel Only Oak Ridge Winner

Samuel entered a dozen lines and was unable to determine which of his entries was the winner. He was the only winner in Oak Ridge and the only one in the South, with the exception of one winner from Knoxville.

This marks Samuel's first win in a national contest and he intends to keep on trying for bigger and better prizes after his recent success in the limerick contest.

Samuel resides at 149 Salem Road in Oak Ridge.

Leo Hemphill Of Y-12 Is Selected 'Young Man Of The Year' In City For Civic Work During Past Year

Leo Hemphill, Y-12 employee in Dept. A12W, was announced as Oak Ridge's outstanding "Young Man of the Year" last Saturday night at the Junior Chamber of Commerce annual banquet and quarterly meeting of the Jaycee state board of directors.

Hemphill was presented the United States Junior Chamber of Commerce's Distinguished Service Award for outstanding community service during the calendar year of 1948 as a result of his Oak Ridge activities.

"Through his loyal, faithful and unselfish efforts he has made a great contribution to Oak Ridge, Tennessee and the nation," a citation accompanying the award declared.

John R. Owen Jr., past president of the Oak Ridge Jaycees and awards chairman presented Hemphill with the Distinguished Award certificate and a key at the closing minutes of a radio broadcast over station WATO from the Oak Terrace, where the banquet was held.

Nominations Made By Letter

The candidates for the "Young Man of the Year" award were selected by letter nomination and the entries judged by three prominent Oak Ridge business men. The names of the judges are never disclosed by the Jaycees. L.Z. Dolan, former Y-12er, served as toastmaster.

Hemphill's activities in Oak Ridge for the past year were numerous, the citation stated. He was instrumental in bringing the Freedom Train to Oak Ridge, making trips to New York where arrangements were



Leo Hemphill made with the national director of the American Heritage Foundation. He also went to Washington, D. C., to obtain the backing of David E. Lilienthal, chairman of the Atomic Energy Commission, for the project. He obtained the endorsement of officials of the AEC in Oak Ridge to organize a committee for financing the project, and carried it to a successful conclusion, making it one of the outstanding events of the year for the community.

As chairman of the Jaycee Planning Committee, he and his committee were among advocates before the AEC to keep the White Wing Gate open.

Designed Y-12 Display

Hemphill designed the Y-12 display for the Carbide and Carbon Chemicals Corporation atomic energy exhibit and operated it at the Atomic Energy Commission "Man and the Atom" show in New York. He was in charge of the entire Carbide section of the show while it was in Oak Ridge.

He has cooperated with individuals and civic organizations in Oak Ridge, fostering a spirit of cooperation among these organizations.

Hemphill was selected by the Tennessee Junior Chamber of Commerce as its "Young Man of the Quarter" for the period from July 1 to October 1, 1948.

He is a member of the Jaycee's board of directors, and former executive vice president. Hemphill assisted in establishing and renovating the new home for the Oak Ridge Jaycees. He has participated in various other church, school and civic affairs to help gain him the honor from Oak Ridge.

Hemphill lives at 103 Glendale Lane. He is married and the father of three children.

Instrument Society Will Meet Wednesday

The February meeting of the Oak Ridge Section of the Instrument Society of America will be held at the Oak Terrace, Grove Center, at 7:30 o'clock Wednesday night, February 2. H. H. Bristol, of the application engineering department of the Bristol Co., will be the principal speaker. His topic will be "Air Control--Theory and Design," with "Telemetry" as a secondary topic.

Bristol graduated from the Stevens Institute of Technology in 1931 with a mechanical engineering degree. Since then he has been with the Bristol firm as a sales engineer, application engineer and did extensive research engineering in the study of the theory of air control.

The Oak Ridge Section of the Instrument Society of America meets on the first Wednesday of each month. Several Y-12 employees are members of the organization and all are urged to attend the meeting tomorrow night.

Ceramic Meet Set For Chattanooga

Any Y-12 employee interested in ceramics is invited to attend the meeting of the Tennessee Valley Section of the American Ceramic Society to be held in Chattanooga February 18. Complete information on the meeting may be obtained from Murray A. Schwartz, Fairchild Engine and Airplane Corp., P.O. Box 415, Oak Ridge.

A plant trip and dinner meeting are on the program for the Chattanooga session. Several plants in the Chattanooga district will be visited on a trip beginning at 1 p.m. A cocktail hour will be held at 5:30 p.m. at the Hotel Patton followed by the dinner meeting at 7 p.m.

WHOOFS FOR VINYON

The first bathing suit made of Vinyon, a Carbide and Carbon Chemicals Corporation product, was without dye. When a girl tried it in a swimming pool, she found she couldn't get out of the tank. While under water, the Vinyon was transparent.

Harold Sherrod, industrial engineer at K-25; Sam Miller, owner of Samuel's Men Store; Tom Harvey, owner of Harvey's Furniture Store; George Warlick, Oak Ridge National Laboratory; Lyle Worrel, Roane-Anderson Co.; Dr. Ted B. Rogers, dentist; and Don McKay, publisher of The Oak Ridger. In addition to these members, J.J. Horton, of the Oak Ridge National Laboratory, was elected to fill the unexpired term of Kenneth Scott, who resigned from the board. Horton's term will expire in 1951.

Brown, who also was secretary-treasurer of the Chest in 1948, pre-

sented a financial report for the fiscal year ending November 30, 1948, showing a balance on hand at that time of \$2,350.26. John M. Smith, chairman of the 1948 audit committee, reported that the Chest fund campaign last October raised \$49,479.47, of which only \$1,239.35 remains on outstanding pledges. Most of these pledges did not become due until the first six months of 1949.

Worrel, the retiring president of the Community Chest, in his annual report reviewed progress made in 1948. During that year the Chest (Continued On Page 2)

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Four Departments Have 'All Present'

The Process Development Department, of the Major League, reported perfect attendance for the week ending January 23 to head the group in attendance for the second straight week. Dept. A20N, Field Maintenance, occupied second place in the Major League again with .2 per cent of its personnel absent. Third place was taken by Dept. H12L, Isotope Development, with a report of 1.1 per cent.

The plant average for the same reporting period was 3.3 per cent. This mark is .2 per cent higher than the preceding week.

Three groups in the Minor League reported "all present" for the same period. They include Dept. A12R, Cafeteria and Canteens; Dept. A19N, Laundry; and Dept. A21N, Special Facilities.

Second place in the Minor League was taken by Dept. A14J, Fire, with 4 per cent of its personnel absent. Dept. A13T, Transportation, captured third place with .5 per cent absent.

The complete absenteeism report for Y-12 for the week ending January 23 by departments follows:

MAJOR LEAGUE				
Dept.	Percentage Absent	Standing		
		1-23-49	1-16-49	
H12L	0.0	1	1	
A20N	0.2	2	2	
H12T	1.1	3	9	
M12P	2.4	4	10	
H12D	2.5	5	14	
A15N	2.86	6	7	
A12G	2.92	7	5	
M12P	3.0	8	8	
A14N	3.3	9	12	
A12M	3.6	10	3	
A12S	3.8	11	4	
B13L	4.4	12	13	
A13N	4.6	13	11	
B12H	5.8	14	6	
A17N	7.3	15	15	
B12L	9.0	16	16	

Group absentee percentage was 3.5 per cent, .2 per cent higher than the preceding week.

MINOR LEAGUE				
Dept.	Percentage Absent	Standing		
		1-23-49	1-16-49	
A12R	0.0	1	1	
A19N	0.0	1	1	
A21N	0.0	1	5	
A14J	0.4	2	1	
A13T	0.5	3	6	
A13S	1.33	4	1	
M12S	1.33	4	8	
M12M	1.9	5	3	
A12T	2.0	6	1	
B12A	2.4	7	4	
A15N	2.8	8	7	
A13W	4.4	9	1	
A12W	5.1	10	2	
A12A	7.2	11	11	
A12N	7.7	12	9	
A12D	9.5	13	10	

Group absentee percentage was 2.9 per cent, .5 per cent higher than the preceding week.

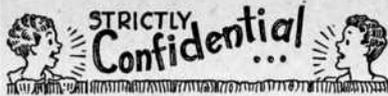
The plant average for the week ending January 23 was 3.3 per cent, .2 per cent higher than the preceding week.

INSTRUMENTS DETECT BLAST

A recent news story from Honolulu reports that two of the atomic explosions at Eniwetok last spring were detected almost immediately by seismic instruments at Truk Atoll, about 850 miles from the scene of the blasts. The story says it is believed that if the techniques in "listening" to the blast are perfected it could aid the United States in determining if any foreign nations successfully test an atomic bomb.

Hospital List

The following Y-12 employees were patients at the Oak Ridge Hospital last week: Ruth F. Henry, Dept. B12H; Arnold Tiller, Dept. A15J; Clarence H. Jewell, Dept. A12G; Karl W. Mercner, Dept. A12A; Arnold H. Norman, Dept. M12S; Newton A. Stone, Dept. H12L; Griffin R. Carlton, Dept. A12S.



Carl Poland, Dept. M12P, is the proud papa of a baby boy, Carl, Jr., born January 22 in Chamberlain Memorial Hospital in Rockwood. . . The welcome mat is out to James P. Woods, who is back on the job after an illness. . . Evelyn Frazier has a house guest, her mother, Mrs. J. E. Murphy, of Vanleer, Tenn. . . Juanita Fox made a week-end trip to Roanoke, Va. . . Ethel Bow visited with friends and relatives in Jamestown, Tenn. . . Get well wishes are extended to Mary Anderson, who is on the sick list.

Robert Waddle, Dept. A12L, spent the past week end in Birmingham, Ala.

Dept. A12A extends a speedy recovery wish to K. W. Mercner, who is ill in the Oak Ridge Hospital.

Mary Branham, Dept. A19N, had as recent week-end guests her sister and brother-in-law, Mr. and Mrs. Sherman Hall, of Dayton, Ohio. . . Pauline White and her husband, Roy, spent the week end visiting with her parents in Frankfort, Ky.

Dept. A13N extends get well wishes to Wilbur Clarridge, who is ill in a Knoxville Hospital.

G. F. McPherson, Dept. A12G, and his family are vacationing in Chattanooga and Nashville. . . Get well wishes are extended to C. H. Jewell, who is ill.

Dept. H12L extends a speedy recovery wish to Newton Stone who is ill in the Oak Ridge Hospital. . . Carl Green made a trip to New York recently.

Dept. B12L wishes a speedy recovery to Charlie Peal and Edna Rhea, who are on the sick list.

Clyde McLemore, Dept. A16N, and his family visited with Clyde's parents in Knoxville over the week end. . . T. H. Miller and his brother went fishing in Mossy Creek near Jefferson City recently and reported a creel of 17 crappie. . . Lewis Banner and his family had as recent guests his daughter and son-in-law, Mr. and Mrs. Frank Bowman and their small son, of Toner, Ky.

A rather belated but nevertheless welcome Christmas picture is the accompanying snapshot of Don Phillips, Dept. H12D, proudly posing with his granddaughter, Dayna Jean Worley, during a family party at the Phillips home, 101 Ulysses Lane, Oak Ridge. The baby's moth-



er is the former Miss Jean Worley, ex-Carbide employee at K-25, and now living in Raleigh, N. C. Dayna Jean was two and one-half months old during the Yule holiday season. Incidentally the picture was made on December 26, which was Grandfather Phillips' 45th birthday.

Arnold Tiller, Y-12 Recreation Supervisor, was expected to have gone home over the week end after several days in the Oak Ridge Hospital as a result of a badly fractured arm sustained in a plant basketball game. While convalescing, Tiller issued a bedside challenge to all Y-12 left-hand checker players for lunch hour jousts. "Just call me Lefty now, but there'll come a day," he warns all and sundry who might seek to take advantage of his ailment to usurp his athletic honors.

Dept. A12S extends a speedy recovery wish to A. H. Norman, who is ill.

Dept. M15P is glad to see Lloyd Tolliver back on the job after an extended illness.



IT TOOK A RECENT ILLNESS, NOT SERIOUS, OF J. E. TUCKER, EMPLOYEE IN THE Y-12 Guard Department, to bring together four brothers and four sisters for the first time in 42 years. The family group of brothers and sisters of J. E. Tucker, second from left in the reunion picture above, taken at the Tucker home, 575 Mead Lane, Oak Ridge, are from left, Mrs. Cora Setzer, Mrs. Myrtle Trammell and Clarence Tucker, all of Morganton, N. C.; Mrs. Josie Childress, Ira Tucker, Mrs. Jerritt Bright and Claude Tucker, all of Knoxville. J. E. Tucker has been a member of the Y-12 Guard Department since 1943.



Two births were reported to Y-12 families at the Oak Ridge Hospital last week. Parents were Mr. and Mrs. Theo C. Caldwell, a son, January 25; Mr. and Mrs. Robert S. Morris, a girl, January 26.

Ridge Security Regulations Protect Atomic Operations

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sibilities on all individuals, firms, corporations and institutions engaged in the atomic energy program.

Restrictions Put On Information

The Atomic Energy Act in its security provisions emphasizes that no person is entitled solely by his position to possession or knowledge of information classified as restricted data. Such information is entrusted only to persons whose official duties require such knowledge. Every effort is made to limit the number of those persons handling or having knowledge of restricted data to the lowest possible number consistent with efficient work practices. Likewise, only persons who have received proper AEC and FBI clearance and plant authority will be given information in the restricted data category.

Every employee in Y-12 and in other AEC installations is required to sign a security agreement at time of employment pledging not to reveal any restricted data obtained by them during time of employment. A similar agreement is required to be signed at time of termination.

Must Account For Data

Attention of Y-12 employees is called to Plant Procedure No. 22-B, that requires all terminating employees to properly account for all documentary restricted data for which they are responsible before the termination process is completed.

The Y-12 Security Office recommends that any employee having a considerable number of classified documents in his possession and who is considering transfer to any other AEC installation or termination to take time to complete an inventory of such classified documents and make a proper disposition of the data. By doing so the person may save what otherwise might prove to be a delaying factor and inconvenience in winding up their affairs in Y-12.

The only trouble about gardening is that by the time your back gets used to it your enthusiasm's gone.

Y-12ers To Sing In Ridge Chorus On Saturday

Several Y-12 singers will appear with the Oak Ridge Community Chorus in its concert Saturday night, February 5, at the high school auditorium. The performance will begin at 8:15 o'clock and is under the auspices of the Oak Ridge Civic Music Association.

Among the Y-12 employees who are members of the chorus are Georgia Moore, Phyllis M. Brown, John Redman, Joseph E. Lee, Robert L. Knight and George Nettle.

Director Riley Barrett has arranged a program of Bach selections and folk songs of various nations for presentation at the Saturday night concert. The accompanist will be Miss Estelle Hays, who formerly was stationed in Y-12 with the AEC.

ORCMA members have announced that a number of tickets for non-members of the association will be on sale at the box office on the night of the concert for \$1 each. Members will be admitted by card.

Lions Planning For Second Annual Minstrel

Several Y-12ers with a talent for entertaining other folks were among members of the Oak Ridge Lions Club attending the first try-outs last Friday night for the second annual minstrel show to be presented by the civic club. The production will be staged at the Oak Ridge High School auditorium March 3, 4 and 5 with a combination preview and dress rehearsal scheduled for March 2. All members of the cast will be members of the club.

The first such show staged by the Lions Club last year brought packed houses to all three performances and many favorable comments were heard over the brand of fun and music given the audiences. Among the Y-12 employees in the cast that aided in making the show a success were Dr. C.P. Keim, R. L. Knight, Bill Bonham, H.E. Buckminster and Elmer Olsen.

The scheduled preview and dress rehearsal will be open to the public with a special invitation for youngsters of the town to attend. Admission for this performance will be 50 cents for adults and 10 cents for children and the occasion will give the cast a good opportunity to try out their songs and gags before the regular three-night run begins the following day. For the Thursday, Friday and Saturday performances all seats will cost \$1 each and will be reserved.



JOHNSON - ARNOLD
Miss Loretta Arnold, Dept. B12L, became the bride of Walter Roger Johnson at 1 p.m., January 8, at the St. Mark's Methodist Church in Clinton. The Rev. Paul A. Barker performed the ceremony.

The bride is the daughter of Mr. and Mrs. James B. Arnold, of Mt. Vernon, Ky. Johnson, the son of Mr. and Mrs. Harvey W. Johnson, of Oak Ridge, is attending the Veteran's Training Center School in Knoxville.

Mrs. James E. Hood was maid of honor and her husband was best man.

The bride attended Union College, Barbourville, Ky.

Dr. C. P. Keim Is Member Of Chest Board Of Directors

(Continued From Page 1)
admitted two new local agencies into membership. One was the Oak Ridge Welfare Council, a planning and coordinating group of local organizations and individuals interested in community health and welfare services. The other was the Oak Ridge Crippled Children's Committee. The latter organization in the past has conducted the annual March of Dimes campaign for funds for infantile paralysis treatment and other services for crippled children. By including this group, the Chest has eliminated the cost and effort of conducting a separate campaign.

In the report of the auditor it was shown that Y-12 employees topped all major groups in responding to the Chest appeal last October. Contributions in this plant were 137.27 per cent with \$5,490.80 being contributed by employees during the campaign.

WATO To Observe Birthday Tuesday

An interesting radio program will be offered Y-12 listeners Tuesday night, February 1, when Oak Ridge Station WATO will celebrate its first anniversary.

The birthday program, according to station owner Marshall Pengra, will go on the air at 8:30 o'clock and last for one hour. A review of high spots in station programs during the year will be featured. Voices of David Lilienthal, chairman of the Atomic Energy Commission; President Truman and other prominent persons will be heard during the program.

Tossing objects may toss you for a loss.

SPORTS NEWS



Y-12 Photos By Vince Moore

"STRIKE" SHOUT THE LOVELY LASSIES OF THE Y-12 varsity keglertes, as Margaret O'Neil lets one go down the alley. Other Y-12 varsity bowlers in the Oak Ridge City Women's League are shown giving encouragement to Margaret. Shown from left to right are Daisy Ward, Inez Reece, Nancy Doane, and Oleyne Poindexter.

Evelyn Jago Leads Y-12 Girls To Pin Victory

The Y-12 varsity keglertes, of the Oak Ridge City Women's League, moved up from sixth place into fourth last Thursday night after churning Norris Creamery for three points.

Evelyn Jago led the plant girls in their win with 459 pins for her series total. Oleyne Poindexter was second highest scorer for Y-12 with 430 pins followed by Margaret O'Neil with 416 pins.

Inez Reece rolled 367 for her series score followed by substitute Peggy Schmidt with 343 pins.

The Y-12ers rolled 609, 719 and 687 for a total 2,015 score. Norris Creamery bowled 605, 632 and 655 for a total of 1,892 pins.

The Sure Shots will oppose the Y-12 varsity girls on Thursday night and it looks like another victory for the Y-12ers. The Sure Shots are currently resting on the bottom of the league.

League standing follows:

Team	W	L	Team	W	L
Tulip Town	43	14	Muny Market	28	29
Nor's Cream'y	34	23	Knox Blue P.	27	30
ORNL	33	24	R-A	23	34
Y-12	32	25	Merchants	20	37
Monroe	32	25	Fairchild	20	37
K-25	32	25	Sure Shots	18	39

Motley And Walker Win Again For Y-12 Cuemen

The Y-12 sharks held their own in last week's city pocket billiard play. The plant five split six points with the Oak Ridge National Lab quintet to hold the second place tie they are maintaining in the loop.

Only two Y-12 players defeated their opponents yet the plant sharks won a point on total points.

W. B. Motley and Bill Walker were the winning Y-12ers. They toppled Gost and Odom respectively by 75 to 56 and 75 to 30. Hurt, of ORNL, barely eeked by H. M. Burnett with a 75 to 73 score.

M.C. Wiest and C.E. Harris were on the losing end for the Y-12ers. Wiest lost to Massie 57 to 75 and Harris lost to Cook 55 to 75.

The sharks were slated to tangle with Roane-Anderson last night and will meet K-25 on February 7.

Y-12 Keglers Blanked By Allards Pinmen

The Y-12 varsity pinmen were humbled by the league leading Allard's bowling club in last week's city loop bowling play. The leaders trampled the Y-12ers by taking all four points from the plant keglers. However Y-12 still held second place in the loop last week. Addressograph shared the same spot with the Y-12ers with 16 wins and 12 defeats.

Victors Set Season's Record

Allards has taken 26 points for the present round and lost but two points. They rolled the season's high series score in downing the Y-12 five by hitting 2,805 pins. Spears, of Allards, bowled the season's high individual score with 641 pins.

The Y-12 scores in the Allard's encounter were 898, 920 and 780 for a total of 2,598. Allards' tally, for three games, was 954, 931 and 920.

Y-12 was scheduled to tangle with Roane-Anderson last night and will meet the S & B team next Monday night.

Cobble High Scorer For Y-12

Ernie Cobble was the high series scorer for Y-12. He topped 580 pins in the series followed by Rudy Pletz with 524, Nelson Tibbatts with 510, Nick ZaBenco with 509 and H. D. Duncan with 475.

League standing follows:

Team	W	L	Team	W	L
Allards	26	2	Clinch Radio	14	14
Y-12	16	12	W. Grocers	13	15
Addressograph	16	12	S & B	12	16
Marot	15	13	ORNL	12	16
K-25	15	13	Monroe	12	16
R-A	14	14	Fairchild	3	25

BUSINESS BOOMS

The American Iron and Steel Institute is quoted in a recent news story as reporting the demand for cyclotrons has become so great recently that the manufacture of the instruments is an established industry. The institute reports that 36 cyclotrons of various shapes and sizes are known to be in operation in the United States, England, France, Germany, Norway and Sweden. Russia is reported to have from one to three.

Mighty few things happen to us that turn out as bad as we think they are.

Robins Jolt Jellico; Calutrons Conquered

The Robins went into overtime to defeat the Jellico cagerettes last Tuesday night, 27 to 24, at the Jefferson Junior High School old gymnasium, in the second half of a double-header.

The Calutrons, winners of the basketball championship, lost to the Jellico quintet 61 to 36. The game was nip and tuck until George Oliphant had to leave the game in the third quarter. Oliphant had scored 15 points at that time. The Jellico quintet was quick to take advantage of Oliphant's absence and proceeded to trample the Calutrons severely.

Helen Brown Leads Scorers

Helen Brown led the scoring department for the Robins against the Jellico sextet. She accounted for eight points. Margaret Evans and Virginia Bowers made six points each and Shirley Brown tallied four points for Y-12. Katherine Jenkins made two points and Helen Butler scored one free throw.

Oliphant led the men in scoring with 15 points followed by Walton with seven points. Other Calutrons scorers include Cottrell with six, and Kapplemann, Braden, Crouse and Dodson with two each.

Ramsey Unable To Play

John Ramsey was unable to attend the game and play for the Calutrons. Arnold Tiller was out on an injury. The two players might have meant the difference between victory and defeat for the Y-12ers.

Overheads Continue D League Win Streak

The Overheads have yet to lose a point during the present round in the D Bowling League. They continued their string of shut-out victories by adding the Scotties to their list. The league leaders have won 12 points for the round now in session.

The Termites made the biggest jump in the loop standing by moving up into a third place tie with the Strikers after trouncing the Splinters for three points and dropping one.

The Strikers took three points from the Old Men and the Pinbusters gave the Woodchoppers the same treatment.

Duckworth, of the Strikers, rolled high scores for the individual scratch series with 547, and high for the individual handicap series with 670. Ernie Cobble, of the Termites, bowled high single class scores. He rolled 218 in the single scratch and 249 for single handicap score.

The Termites led the field in high scratch scores. They rolled the team high single scratch with 837 pins and the high scratch series with 2,296 pins.

High team handicap scores for the night were posted by the Strikers. They led the loop in the team high single handicap class with 989 pins and the team high handicap series with 2,849 pins.

Galloway, Johnson Roll Top C Pin Scores

The Thin Pins continued to reign over the C Bowling League last week. However, they were almost overtaken by the Guards who blanked the Moles. The leaders dropped three points to the Hooks while capturing one lone point.

The Materializers shut out the Knucklebusters and the Orphans trounced Bldg. 9206 for three points.

High team handicap series was scored by the Hooks with 2,763 pins. The high individual honors were taken by Galloway, of the Hooks, and Johnson, of Bldg. 9206. Galloway won the high individual scratch series with 486 and Johnson scored 186 for high individual single game.

The Guards are only one point behind the loop commanders followed by the Materializers and Orphans in that order.

There are approximately 600,000 fires every year in the United States, 260,000 of them in dwellings.

Guards Lead Plant Loop; Sure Shots Smash Cals

The Sure Shots, led by Arnold Tiller and R. L. Tippy, trounced the Calutrons, winners of the first half, 30 to 20 in last week's plant league play.

Tiller accounted for eight points before leaving a badly broken arm while Tippy scored 11 points. Bill Cottrell was the loser's high point man. He tallied seven of the Calutrons 20 points.

Rice Hawks Ball For Winners

The Sure Shots led the Cals 19 to 11 at half time, displaying excellent teamwork. Hugh Rice hawked the ball for the victors, assisted by Martin and Austin.

Wednesday night's game put the Sure Shots in the losers' column after a defeat was handed them by the Isotopes. Bill Prater scored nine points for the winners and Freels tallied nine for the Sure Shots.

The Isotopes also earned another victory earlier in the week by topping Bldg. 9212 at Scarboro gymnasium 36 to 24. The Isotopes led 15 to 8 at half time.

Crabtree Leads Scoring

Crabtree led the Isotopes with 13 points and Johnson accounted for 10 points for the 9212ers.

Bldg. 9212 walloped the Rough House Five last Wednesday night 37 to 27. Johnson led the Bldg. 9212 scoring again with 14 points. His teammate, Barker, tallied 10 points for the winners. Grimes and Peterson each accounted for nine points for the Rough House Five club.

The Guards, currently leading the league for the second half, defeated the Rough House Five earlier in the week 28 to 20. Shoemaker and Hall led the scoring for the Guardsmen. Shoemaker scored 10 points while Hall netted eight.

The Isotopes and Bldg. 9212 were tied for the No. 2 slot in the loop with two wins and one defeat as of January 30. They were followed by the Calutrons, Sure Shots and Rough House Five in that order. Scheduled Announced

All plant league games are played at the Scarboro School gymnasium. The Y-12 plant league basketball schedule through February 7 follows:

Wednesday, February 2 - 6:30 p.m. Isotopes vs. Calutrons; 7:30 p.m. Bldg. 9212 vs Guards; 8:30 p.m. Rough House Five vs. Sure Shots.

Monday, February 7 - 6:30 p.m. Rough House Five vs. Guards; 7:30 p.m. Calutrons vs. Sure Shots; 8:30 p.m. Bldg. 9212 vs. Isotopes.



ARNOLD TILLER, IN THE shirt and playing with the Sure Shots, leaps to take the ball off the backboard in a tilt between the Sure Shots and Isotopes in the top picture. Prater and Davis are shown guarding Tiller. Other players in the picture include Crabtree, Gordon, Love and Martin. Center Daley, of the Rough House Five, jumps with Bldg. 9212 center, Marler, in a recent encounter between the two teams, shown in the bottom picture. Pictured at left are Wright, Grimes and Foster. Johnson and Saine are shown at right. The excellent action pictures above were made by John Ramsey.

Groppe And Duncan Pace Rippers' Win

The Rippers are now leading the B Bowling League with 18 wins. They toppled the A12M quintet last Thursday night for four straight points. Second place in the loop was taken by One-91 with 17 victories. They trounced Maintenance for three points.

Groppe and Duncan, both of the Rippers, rolled a 223 scratch single game. Groppe led the handicap singles class with 252. McBurney, of the Headpins, bowled a 667 for high handicap series, and Duncan captured the scratch series with 567.

The Rippers won all of the high team scores with 2,583 in scratch series, 3,057 in handicap series, 880 in scratch single and 1,038 in handicap singles class.

Sportsmen's Club To Hear Steinmetz

All Y-12 members of the Oak Ridge Sportsmen's Club are urged to attend the regular club meeting at 7:30 o'clock Tuesday night, February 1, at club headquarters on West Oak Ridge Turnpike. Carl Steinmetz, Knoxville attorney, will be the principal speaker at the session. After his address two films will be shown, entitled "Dog Call Partner" and a safety movie, "Hook And Line And Safety."

More Sport News On Page Four



MEMBERS OF THE MAINTENANCE BOWLING TEAM IN the plant B League are shown standing from left to right in the above picture. They are U. G. Riddle, C. G. Hubbard, Mike Crews, Joel Dunlap and Troy Moody. The team is in the upper division of their league and are struggling with four others for the top spot.

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Electrical Tools Require Proper Use

All Y-12 employees who use portable electrical tools have been given instructions in the proper and safe use of such equipment and are urged to follow these rules for their own protection as well as to prevent damage to the machinery.

All electrical tools should be grounded while in use. This precaution will protect the operator against shock or burns should the tool develop a short circuit or accidentally become grounded while in operation. This is especially important when the tools are being used on steel decking or adjacent to grounded materials such as water, air or gas lines or where metallic dust may enter the motor housing through ventilating openings.

Three-Wire Cords Needed

Three-wire cords are regulation equipment on all portable electrical tools and where a tool is used beyond the reach of its own cord, care should be taken that any extension cords used also have three wires. Use of a two-wire extension cord is hazardous to the operator, since there can be no return path to earth for the electrical current except through the body of the user if a short circuit should develop. Cords should be repaired or spliced only by a qualified electrician.

Periodic, adequate and correct lubrication is necessary in the maintenance of all electrically-powered tools. Such machinery subject to heavy and continuous work should be given special attention to prevent ball bearings and gears suffering damage.

Chucks Are Precision Machined

Precision machined chucks are standard equipment on practically all portable electrical tools and rough usage can seriously affect their efficiency. Employees are urged never to strike the gear teeth with metallic objects in an effort to loosen or tighten the chuck. Use of proper size wrenches is necessary when adjusting the chucks if the maximum life of the equipment is to be realized.

Motors of the units operate on both alternating or direct current. This requires the use of brushes and commutators. A vulnerable point in this connection is the insulated cap of the spring surmounting the brush. The base of this insulation, if damaged through abuse or replacement with a non-insulated device, will expose the operator to shock hazards that cannot be prevented by ground connection.

Safety Switches Are Provided

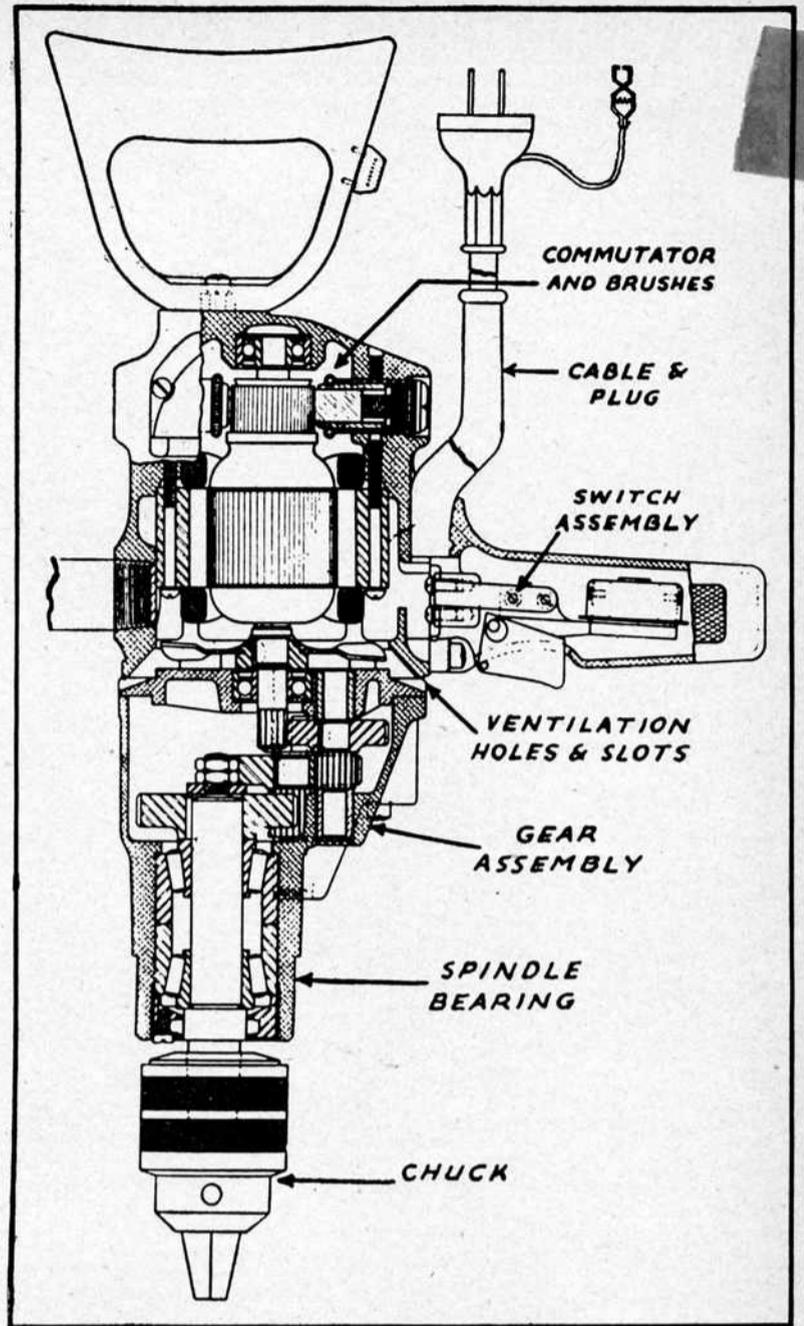
Safety switches are provided on all portable electrical equipment when it leaves the factory. These safety switches are designed to cut off when finger pressure is released. A switch that remains locked is dangerous, since it may cause the tool to whip about and jerk from the control of the operator.

As a final warning, all portable electrical tool operators are urged never to lift the equipment or raise or lower the unit from a working position by use of the connecting cord. The cord is not constructed for this purpose, and continued such abuse will cause the cord to become worn and unserviceable.

Blair-Lee House Gets Jaurez Picture

Blair-Lee House in Washington, temporary White House, soon will receive a portrait of Benito Juarez, Mexico's patriot and one-time president, according to a recent news story from El Paso, Tex. The Pan-American Round Table, of El Paso, hearing that the Blair-Lee House lacked a picture of Juarez, commissioned an El Paso artist, Tom Lea, to paint one. Lea, a great admirer of Juarez who saved his nation from French invaders, sought all available information on Juarez in Mexico and Texas for several months before painting the

Historians say that women in the Middle Ages used cosmetics. Women in the middle ages still use them.



THIS VIEW of an electrical portable drill shows the principal points of inspection in the equipment. All Y-12 employees whose duties call for use of this equipment have been given instruction in the proper and safe use of the tool.

ALL WAS CONFUSION ON BASKETBALL SCORE

Deadline Thursday around The Y-12 Bulletin office sometimes can develop into a state of utter confusion that usually gets straightened out in the long run. However, away back on January 20 through some derauling of trains of thought the reporting and headline writing of the Plant Basketball League brought out not one—but THREE—conflicting scores of the game between the Calutrons and Guards for the first half of the season championship. On one point the staff and numerous Monday morning hecklers were agreed—the Calutrons won. A headline said the tally was 26 to 17. The first paragraph of the story insisted the score was 33 to 23. Then in the cutlines under pictures of the title tilt the result was given as 39 to 28. That was right—at long last—in case anyone wants to record the fact officially for posterity.

The Y-12 Bulletin staff is proud that very few errors creep into its columns. However, as shown here, when it does commit a journalistic sin it is real lavender blue—a couple of dillies, that is.

U. S. Developed Modern Match In Last Century

Only in the last century have matches been produced in the United States at a cost that makes them available to all, according to the National Patent Council.

Earliest recorded description of fire-making does not go back beyond 4,000 B.C. Egyptian hieroglyphics of that time tell of the bow and fire stick.

By 2 A.D. fire was obtained by striking flint and by friction. Even as late as 1847, ten years after Alonzo Phillips was granted the first United States patent for phosphorus matches, flint was still in use.

"Ethereal Match" Appears

The "ethereal match" appeared in France in 1789. This was a sealed glass tube containing a phosphorous-tipped waxed string. The user broke the tube and the inrush of air caused combustion.

The instantaneous light bottle, consisting of a container of sulphuric acid and splints tipped with potassium chlorate, sugar and gum arabic, was used for 40 years in America and Europe, beginning in 1805. A box of 50 splints cost \$2.

Phosphorus Proved Dangerous

Early use of phosphorus in the making of matches caused maiming and death of thousands of match workers, and others, particularly children. Phosphorus fumes, entering the worker's body through defective teeth, caused a disease called necrosis or "Phossy Jaw." Children were poisoned when they chewed the matches.

In 1911 William Fairburn adapted a formula for non-poisonous matches to United States climatic conditions, abolishing the lethal phosphorus. Phosphorus matches today are outlawed by agreement of an international convention held at Berne, Switzerland.

Swede Invented Safety Match

The safety match, credited to J. E. Lundstrom of Sweden, appeared in 1855. The paper book match, invented and patented in 1892 by a Philadelphia attorney, Joshua Pusey, led to establishment of an industry which today turns out two-fifths of the entire output of matches in the United States.

It was not until American inventors had developed modern matches in various forms and had invented the huge machines on which they could be manufactured in great quantities at low unit cost, that it became possible for everyone to carry with him at all times the wherewithal for "a light"

Waterproof Match War Product

Waterproof matches were introduced during World War II through a formula discovered by Raymond D. Cody, of Oswego, N. Y. Immune to the effect of tropical humidity and water, they are still usable after eight hours of complete submersion.

A double-dip process, based on the inventions of Ebenezer Beecher, of Connecticut, produced the two-color heads of round matches generally used in the United States. The "eyes" of the matches contain the ignitable substance. The larger bulbs supporting these sensitive "eyes" prevent them from rubbing together after packing. The invention makes possible the production of 1,125,000 matches per hour.

The modern match is produced in the United States alone at the rate of more than 500 billion annually.

Wholly Rollers Take Lead In W Bowling League

The Wholly Rollers blanked the Controllers last Thursday in the W Bowling League to take command of the loop with seven wins and two losses.

The Kemps dropped into second place in the loop with six wins. They gave the Beta Pick-Ups a ride for two points. The Dodgers shut out the Hi Balls in the remaining league match.

The Wholly Rollers and Dodgers rolled the high team handicap single games last Thursday night with 752 each. The league leaders went on from there to win all of the high team honors. They rolled 540 for scratch single, 2,225 for handicap series and 1,566 for scratch series.

Sherman, of the Wholly Rollers, bowled 475 for high individual scratch series and 172 for high scratch single.

Standings In Plant Bowling League

C LEAGUE			
Team	W	L	Team
Thin Pins	17	11	Bldg. 9206
Guards	16	12	Hooks
Materializers	16	12	Moles
Orphans	16	12	Knucklebusters

B LEAGUE			
Team	W	L	Team
Rippers	18	6	Wolves
One-91	17	7	Bums
All Stars	16	8	Mules
Woodpeckers	15	9	Cubs
Head Pins	14	10	Comets
Maintenance	12	12	A12M

D LEAGUE			
Team	W	L	Team
Overheads	12	0	Old Men
Scotties	7	5	Pinbusters
Termites	6	6	Splinters
Strikers	6	6	Woodchoppers

W LEAGUE			
Team	W	L	Team
Wholly Rollers	7	2	Beta Pick-Ups
Kemps	6	3	Hi Balls
Dodgers	5	4	Controllers

DUAL PURPOSE LEG

An artificial leg was used as a hiding place for loot obtained by a Tokyo pickpocket, according to a recent news story from the Japanese capital.

Rice Urges Vets To Join Atomic City Legion Post

Hugh Rice, Dept. A12M, Manufacturing Offices, has been selected to coordinate the membership drive being conducted by Atomic City Post, No. 199, American Legion, among former service men in the plant. Rice is being aided in the membership campaign by C. E. Gillihan and L. C. Martin.

The Oak Ridge Legion post has set 750 members as its quota for 1949 and now is nearing that goal, according to Rice who has urged all former service men in Y-12 to affiliate with the Legion. The post is conducting the member drive on a team basis with Rice and his Y-12 aides on the Blue team.

Rice has urged any former service man in Y-12 desiring information on Legion matters and an application blank for membership in the Atomic City Post may communicate with him at telephone 7048, Gillihan at telephone 7234 or Martin at telephone 7185.

Elvira Kazlauskis Will Lead Listening Group Program

Elvira Kazlauskis, Dept. H12D employee in Y-12, will present the weekly program of the Oak Ridge Music Listening Group at 8 o'clock Thursday night, February 3, in the East Lounge of the Ridge Recreation Hall.

"Clouds" and "Festivals," two of Debussy's nocturnes, will open the program. Ottorino Respighi's tone poem, "The Pines of Rome," will be the second number. Following an intermission for refreshments and announcements, the program will be concluded with Rimsky-Korsakoff's symphonic suite "Scheherazade," in a performance by Artur Rodzinsky and the Cleveland Symphony Orchestra.

These programs are open to the public with no admission charge and are presented every Thursday night at the Ridge Recreation Hall.

DON'T INVITE ROBBERS TO STEAL YOUR CAR

Up until press time of The Y-12 Bulletin last week Oak Ridge Chief of Police C. T. Vettel reported that four automobiles had been stolen in the city. Of these four, three had been recovered, the chief declared.

These figures are not important, the chief pointed out, but the important thing is that in each of the four cases of theft, owners of the vehicles had left keys in the ignition, making it easy for robbers to get away with the cars.

"Let's don't make it easy for car thieves," the chief urged.

Legionnaires Will Hear Talks On Rental Plans

All Y-12 members of Atomic City Post, No. 199, American Legion, interested in plans for proposed changes in rental rates in Oak Ridge are urged to attend a meeting of the post Thursday night, February 3, at 8 p.m. in the Legion home, Grove Center.

According to C. E. Boone, post commander, invitations to speak to the Legionnaires on the subject have been sent to and accepted by John Franklin, manager of the Oak Ridge Directed Operations for the Atomic Energy Commission; Gordon Molesworth, Franklin's assistant; Fred Ford, city manager; and other officials of the AEC.

Because of seating limitations and anticipated interest in the meeting, attendance at the session will be limited to members of the post, Commander Boone said.

Man: "Waiter, these veal chops don't look so tender to me."

Waiter: "Sir, I used to be a butcher and I can tell you that less than a month ago these chops were chasing after a cow."

Man: "Maybe so, but not for milk."