



A HOOTENANNY IS ENJOYED during dinner by the Material Handling Society in their meeting January 23, in Oak Ridge. Samuel Earle, manager—central industrial engineering department, Union Carbide Corporation, was the featured speaker. He talked about "Selling the Material Handling Concept to Management."



UCC's Samuel Earle Speaks To Local Material Handlers

Samuel W. Earle, manager—central industrial engineering department, Union Carbide Corporation, addressed the East Tennessee Chapter of the American Material Handling Society, in Oak Ridge, January 23. The dinner meeting was held at the Holiday Inn.

His topic was "Selling Management the Material Handling Concept." The young industrial engineer joined Union Carbide in the Stellite Division in 1946. "Material handling is a function that has a role of its own in linking the other parts of the production and distribution process," Earle told the local AMHS members. "We can understand the concept by educating ourselves in the material handling discipline — by becoming familiar with equipment and cost and having an appreciation of the need to generate alternative solutions to problems — by gaining a skill in the use of tools of measurement, analysis and planning."

gain full acceptance for our work it must be accompanied by continuous pre-selling of ideas. Pre-selling means informing and involving people in ideas in many stages before the idea becomes a firm recommendation. Pre-selling has real value in that it doesn't leave acceptance to chance. No matter how small or big an idea, there is value in pre-selling for new ideas mean many times admitting that the old is not as good as it should have been. Identifying key men who will affect the decision on a proposal, keeping them informed of developments and soliciting their suggestions is the heart of pre-selling."

The visiting New York official was welcomed by local president J. C. Thompson Jr. Approximately 40 members and guests attended the highly successful meeting.

Camera Club Sets Meeting Tuesday

February's meeting of the Carbide Camera Club is set for next Tuesday, February 11, at Cheyenne Hall. It will begin at 8 p.m.

The subject will be 'Do's and Don'ts for Taking Color Slides with Agfachrome.' Competition for February will be color slides of holiday scenes.

A new point system for awarding prizes has been initiated. Briefly it is as follows: one point for each entry (limit four in each category), four points for third prize, six points for 2nd prize, and 10 points for first prize. Ribbons will be given for individual winners and a cash award of \$10 goes to the first prize winner, \$6 for the second, and \$4 for the third, at the end of the year based on the number of accumulated points.

This year's photography school will begin Thursday, April 2 at the club room. The present schedule calls for six hour and a half lectures and/or demonstrations. Others will be added if interest warrants.

"We must be able to relate the material handling concept to specific situations. We must be able to apply our knowledge in a real world, in a world of manufacturing and distribution, in a business of day-to-day problems and in a business that requires long range planning. Communicating our ideas to those who must take action gives value to our understanding and relates this function to the rest of the organization."

Earle concluded, "In order to

SAFETY SCOREBOARD
The Y-12 Plant Has Operated 278 Days Or 8,726,000 Man-Hours
(Unofficial Estimate)
Without A Disabling Injury Through February 2
Phone 7755
For Daily Report On Accident-Free Hours

Various Speakers Fill ISA Roster

The Oak Ridge Section of Instrument Society of America will meet tonight, February 5, in the Green Room of the Ridge Recreation Hall. The meeting will begin at 8 p.m.

The speakers include: Mike Bartkus, ORGDP, who will speak on "Meter Calibration." I. O. Johnson, Fulton Sylphon, will discuss "Film on Power Pills." Y-12's Sam Hodnett will discuss "Novel of CO₂ Monitor," and ORNL's John Horton will discuss "SCR Power Panels" and "A Bucking Supply for Recorder." George Holt, also from ORNL, will speak on "CERN Standards." All are ISA members.

MONUMENTAL MONUMENT

The massive capstone on the Washington monument weighs a ton and a half. The entire shaft, however, weighs some 81,000 tons.

Y-12 Credit Union's Assets Make It Largest In Tennessee

Members of the Y-12 Credit Union last week heard news of their phenomenal growth over the past 12 years . . . growth that has now placed them as the largest credit union in the state of Tennessee. Assets have grown in the past 12 years from \$427,620.03 to the close of 1963 at \$5,249,994.99.

At Thursday, January 30's meeting three new directors were elected to the board by acclamation . . . P. L. Patrick and W. H. Dodson were named to new three year terms, and E. G. Richardson was acclaimed for a term of one year.

The year 1963 was the most outstanding year to date growth-wise . . . when assets jumped more than a million dollars . . . from 1962's assets of \$4,166,547.59 to \$5,249,994.99! Membership or share accounts jumped to a new high as 5,619 shareholding accounts were counted at the close of the year. As of December 31, 1963, a total of \$4,684,264.58 is invested in shares by members of the credit organization.

Dividend Declared

Another five percent per annum dividend was declared for shareholders for the last six months of the past year.

Officers elected were T. J. Stephens, president; E. G. Richardson, vice president; Lorena Causey, treasurer; P. L. Patrick, assistant treasurer; W. E. Davis, secretary; C. V. Ketron, chairman of the supervisory committee; and Mary Frances Bailey, Credit Union employee, was named to a three-year term on the Credit Committee.

Treasurer - Manager Lorena Causey attributed Y-12 Credit Union's astounding growth to the concern given for service through the years. "We have never been concerned with how big we get . . . our objectives have always been for better and improved service to members." She concluded, "Thus, growth almost follows automatically."

12-Year-Growth

Off-years, that is years when the General Savings Plan of Union Carbide pays off, are the fantastic year of expansion, naturally, for the Y-12 credit group. A comparison of assets for the past 12 years looks as follows:

Year	Assets
1952	\$ 427,620.03
1953	666,248.52
1954	914,635.06
1955	1,446,163.32
1956	1,517,142.49
1957	1,936,960.88
1958	2,221,992.86
1959	2,883,665.08
1960	3,024,975.17
1961	3,799,590.87
1962	4,166,547.59
1963	5,249,994.99

A total of 17 fine door prizes was awarded to attending members last week, in addition to 25 silver dollars. A list of winners will be carried in next week's Bulletin.

The standing-room-only audience heard reports from the chairs of the Credit Committee and the Supervisory Committee. Detailed activities of these committees will be mailed to individual members shortly.

Not For Charity

The Credit Union belongs to its members . . . all Y-12ers and members of their families. It is



TREASURER-MANAGER Lorena Causey, Y-12 Credit Union, reads her report to members at last week's annual meeting. "The health of your Credit Union has never been better," was the good word from Mrs. Causey. Each year the Y-12 credit organization outdoes itself in records set and broken.

operated as a non-profit organization serving members with the best in planned savings and insured loans. Not for Charity, not for Profit, but for Service has always been the theme of the group and has motivated its moves through the years.

Remember, THE CREDIT UNION IS YOURS . . . USE IT!

Welding Group Sets Meet At Deane Hill

The Northeast Tennessee Section of the American Welding Society will meet Friday, February 14, at Deane Hill Country Club, Knoxville. The social period is set for 6:30 p.m.

Dinner will begin at 7 p.m., and the technical program at 8.

Fred L. Plummer, AWS Executive Director will discuss the organization's activities, and President Clarence E. Jackson will discuss "Welding in Tomorrow's Technology."

AWS officials stress this as an important meeting, and urge as many members to attend as possible with guests. The dinner cost will be \$1.50, and the remainder to be subsidized from the Section treasury. This special rate for dinner will apply only to registrants filing before Wednesday, February 12. Reservations in Y-12 should be made through H. B. Harlan, extension 7646. After that date, dinner prices will go to \$2.50 each.

Plan now to attend AWS's important meeting, and bring a guest.

The Bulletin

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



NUCLEAR DIVISION

JAMES A. YOUNG Editor



OFFICE

Post Office Box Y
Oak Ridge, Tenn. 37831
Bldg. 9704-2 Room 149
Telephone 7109

Masonic Services For F. W. Sutton

Furman Wade Sutton, Research Services, died Friday, January 24, in a Knoxville Hospital. Formerly in Research Services, he came to Y-12 December 28, 1951.



The family home was at 619 Inskip Road, Knoxville.

Mr. Sutton is survived by his wife, Mrs. Marjorie Neely Sutton; sons, Michael Wade Sutton; Robert E. Crunkleton and James N. Crunkleton, all of Knoxville.

He was a member of the Inskip Baptist Church and Masters Lodge Number 244 of Free and Accepted Masons.

Funeral services were conducted Sunday, January 26, in the chapel of Stevens Mortuary, Knoxville, with the Reverend Robert A. Sanders officiating. Burial was in Lynnhurst Cemetery, with the Masons in charge of the graveside rites.

Sincere sympathy is extended to the Sutton family.

Kingston Rites Held For Y-12er Cooley

General Shop Inspection sadly marks the death of John Edwin Cooley, Sunday, January 26. He was a native of McMinnville, Tennessee, and had been employed in Y-12 since June 18, 1948. He had also previously worked here from 1944 until 1946.

Surviving are his wife, Mrs. Johnnie Roberta Cooley, 211 Willow Brook Road, Kingston; sons Ralph Edwin, McMinnville and Robert Donald Cooley, Kingston; brothers, Ernest, Johnson City; Howard, Nashville; Lewis, Chattanooga; and George M. Cooley, McMinnville; sisters, Mrs. Bryon Mitchell, Mrs. W. G. Hale, Mrs. George Martin, all of McMinnville, and Mrs. T. R. Cantrell, Oak Ridge. Two grand-children also survive.

The funeral was held at 2:30 p.m. Tuesday, January 28, at the Kingston Church of Christ. Mr. R. R. Wooten and Mr. Garland Elkins officiated. Burial followed in the Roane Memorial Gardens.

Sincere condolences are extended to the Cooley family.

There is no holiday for security.



For the first time in Bulletin history this column of banter was omitted last week. A thousand and one pardons . . . there just wasn't room. This week, however, there is room a-plenty for the following. First, let's start in

MAINTENANCE

Research Services is sending get well wishes to **V. W. Reece**. Also to **R. J. Malone's** son who was critically injured in an automobile wreck.

Electrical wires that **B. M. Atkins**, Pump Shop, is confined to Oak Ridge Hospital . . . and everybody sends good wishes to him . . . Sympathy is extended to **J. W. Webb** in the recent death of his mother, Mrs. Bessie Webb, Powell, Tennessee.

Get well wishes are sent to **C. E. Phillips**, **M. C. Gore**, **J. R. Pitts**, and **W. O. Canant**, all home ill.

No more smoke screens coming outta Electrical, it says . . . everyone around there has quit smoking . . . well, almost everybody.



Lauri, Tommy and Terri

All fixed up in their 'jammers are these cute youngsters . . . at least two of them are; the other one is too young. They are Lauri, Tommy, and Terri Tibbatts, children of Lieutenant Tom and Ann (Tippy) Tibbatts, United States Navy. The younger Tibbatts are stationed at Ellington Field, Pensacola, Florida. Lauri is three, Tommy is just five days old here, and Terri is five (years, that is.) Proud grand-pop **Nelson L. Tibbatts** is in Maintenance Administration Services.



Mother and Child

Here's a nice photograph of a wee one . . . little Larry Scott Martin, born January 10 . . . and only 10 days old when the above was made. His mother Mrs. Gail Reioran Martin is the daughter of **C. W. Reioran**, Area Five Maintenance, and proudly presents the first grandchild. The Reiorans live at 104 East Judd Lane, Oak Ridge.

One of the great mysteries of

all time is how a fool and his money ever got together in the first place.

SHIFT SUPERINTENDENTS AND UTILITIES

Deepest sympathy is sent to **E. I. Clark** and family in the recent death of his wife.

Get well wishes are sent to **L. Ellison**, Oak Ridge Hospital.

Vacationing is **J. B. Tallent**, who had a talent for not telling where he was going.

Marriage is the only sport on earth where the animal that gets trapped has to buy a license!

MATERIALS AND SERVICES

Plant Records extends get well wishes to **Emma Puckett**.

A good example of reckless driving is a woman trying to hammer a nail.

INDUSTRIAL RELATIONS

Vacationing recently in the Fire and Guard Departments were **A. J. Ballinger** and **O. D. Cloyd**.

Get well wishes are speeded to **D. I. Davis**.

Safety is sending speedy recovery wishes to **Ernie Bentley**, ill in St. Mary's Hospital, Knoxville.

Security also sends ditto to **Bill Davis**, who is about to have a bout with the saw-bones in Oak Ridge.



James R. Carson

Ole Laughin' Boy himself is five-months old James Richard Carson, son of **R. L. Carson**, Guard Department. By now, they should be calling him Jim or Jimmy or Hey You, shouldn't they?

METAL PREPARATION

Arc Melting, formerly Chemical, got together recently at the Holiday Inn for dinner and good talk. The **Herman Butlers** and **Bob Trents** showed slides of their vacation last fall in Europe. (It is sadly reported that **Bob** and **Carol Trent**; she's in Ceramics and Plastic Department; are leaving shortly for Cleveland, Ohio. Bob has accepted employment in another division of Union Carbide.) By the time the evening was over the following folk felt as if they too had made the trip. The **M. B. Potters**, the **Dean Reeds**, the **E. R. Doughertys**, **Eleanor** and **Kerby Duke**, **Denise Roberts**, **Margaret** and **Homer Baker**, **Mabel Butcher**, **Florence Archer**, **Mrs. George McNabb**,



KAREN EICHELBERGER, fair daughter of C. R., Area Five Maintenance, is seen at Powell High School's recent beauty pageant where she took top honors. The sophomore beauty was crowned by last year's queen on January 24.

Karen Eichelberger Is Crowned Queen At Powell High Pageant

A Y-12er's daughter, Miss Karen Eichelberger, 4112 Deerfield Drive, Powell. She was presented a trophy and a bouquet of red roses.

She was crowned by last year's queen at Powell High, Miss Pat Lane.

Her father is in Y-12's Area Five Maintenance . . . and her mother Mrs. Betty Eichelberger is employed at Oak Ridge National Laboratory.

Karen, a sophomore, is the daughter of Mr. and Mrs. C. R.

Carol McNabb, **Lennie Messamore**, **Matty May**, **R. P. Smith** and **Jeanette McCown**.

The group sends get well wishes to departmental reporter **Thelma Bradshaw**. Also get well wishes to **F. A. Wells'** wife and **Lee Horton's** wife in the Oak Ridge Hospital.

Many a child who watches TV for hours will go down in history . . . not to mention arithmetic and geography.

FABRICATION



Pamela Darlene Wells

A new baby greeted the Phillip Wellses, Oak Ridge, on November 2, of the past year. She was little Pamela Darlene Wells, and granddaughter of **Jesse A. Lewis**, Beta Two Machine Shop, who is just as proud as can be. We don't blame him a bit either.

A Christmas scene around the **Charles J. Moody** household at 3326 Lay Avenue, Knoxville,



Terry Mae & Susan Fay looked like the above. That's Terry Mae, Susan Fay and Simba, the Siamese cat . . . all enjoying the bright lights of the tree. The papa is Uranium Machining.

That's about it . . . hope everybody got in the proper division!

ORINS's Gibson Leads Friday Physics Seminar

F. B. Gibson, ORINS Postdoctoral Fellow, of the Physics Division at Oak Ridge National Laboratory, will lead Friday's seminar. His subject will be "Effect of Finite-Range n-p Potential in Coulomb Stripping Reactions."

The Physics Division seminar is set for Friday, February 7, at 3:15 p.m. in the East Auditorium of ORNL's 4500 building.

BORN COLLECTORS

Men are born collectors. First they collect bugs and marbles; then girls and ties; then worries and a family; then golf trophies and hair tonics; and finally pains, symptoms and memories.



RELIABLE FISHERMAN Joe Jackson, Receiving, submits the first entry in 1964's Fishing Rodeo. The flashy trout was pulled from the Clinch River on a Mep spinner. Other species are eligible for the big contest, so get those catches in.

Three Now Share C League Honors

Hi Lifers, Rounders, Shud-A-Beens Are Tied

The lead in the C League for Y-12 bowlers narrowed down last week to a three-way tie among top bowlers. The Hi Lifers took four from the Screwballs as did the Shud-A-Beens from the Sunflowers, and the Rounders from the Parbusters. The only other four pointer went to the Hookers over the Five Roses.

Three points went to the Rodders over the Strikers, and the Big Five over the Lucky Strikes.

Ernest Crowley, Hi Lifers, took high singles of the night, rolling a 248 scratch, 273 handicap game. Otis Rackley, Rounders, had high series with 600 scratch and 654 handicap totals. The Big Five rolled 891 for high single scratch score of the week. The Lucky Strikes took highs in single handicap game with a 1048. The Big Five rolled high series of 2570 scratch and 2987 handicap.

League standings follow:

Team	W	L
Hi Lifers	14	6
Shud-A-Beens	14	6
Rounders	14	6
Rodders	13	7
Strikers	1	9
Sunflowers	10	10
Hookers	10	10
Five Roses	9	11
Lucky Strikes	8	12
Big Five	7	13
Parbusters	5	15
Screwballs	5	15

Rusty Five Takes Bush Alley Crown

New Season Opens For More Bowlers

The Rusty Five took first half honors in the Bush League of Y-12 bowlers recently.

New rollings began last week as the '66' Raiders took the only four-point sweep, beginning the new last half. They downed the Beavers. Three point wins went to the Dry Hides over the Rollmasters, the Outcasts over the Rusty Five and the Rollniks over the Turtles. The Seven Sixties and the Hi Balls split two points each.

P. A. Cuthbertson, Seven Sixties, swept individual honors, rolling singles of 228 scratch and 258 handicap. His series highs were 547 scratch and 637 handicap.

The Seven Sixties took singles with 899 scratch and 1065 handicap scoring. The Rusty Five's 2340 scratch series was high . . . and the Seven Sixties returned to the board to take handicap series, rolling a total 2819.

New league standings:

Team	W	L
'66' Raiders	4	0
Dry Hides	3	1
Outcasts	3	1
Rollniks	3	1
Seven Sixties	2	2
Hi Balls	2	2
Rusty Five	1	3
Turtles	1	3
Rollmasters	1	3

less Five, ORNL, 40 to 53. Ray Cooper led the F. F. crowd with 19 points, Larry Finch scored 13. On the losing squad it was Ted Morton with 13, Don Mahaffey with 10.

League standings follow:

Team	W	L
Independents, ORNL	7	1
Atoms, Y-12	5	1
Metals and Ceramics, ORNL	5	1
All Stars, ORGDP	5	3
Fearless Five, ORNL	4	3
Rebels, Y-12	3	3
Analytical Chemistry, ORNL	1	6
Cell Four, ORNL	1	6
Peons, Y-12	1	7

Cool Cats Eke Out Slim Lead In Mixed Alleys

The Cool Cats broke the deadlock in the Mixed League of Y-12 bowlers last week by taking three points from the Goofers. Other wins went to the Toppers over the Alley Cats, the Phantoms over the Scrappers, and the Ghosts over the Pin Plasters.

Irene Carmack, Cool Cats, rolled high singles for women, taking a 201 scratch, 239 handicap single count. She also took high series in scratch count with a 488. Virginia Newby, Goofers, and Sandy Stephens, Toppers, tied for high handicap series, each rolling 621. Charlie Gillihan, Ghosts, took high singles in scratch count on the male side posting a game of 194 and Al Wyrick, Phantoms, took single handicap high count with 227. Gillihan's series were high as he rolled 567 scratch and 654 handicap totals.

The Goofers took high single scratch count with 656 . . . the Pin Plasters rolled a high handicap single of 826. The Cool Cats' series of 1861 scratch and 2363 handicap were high in that division.

League standings follow:

Team	W	L
Cool Cats	12	4
Goofers	10	4
Toppers	9	7
Phantoms	8	8
Scrappers	7	9
Ghosts	7 1/2	8 1/2
Alley Cats	6 1/2	9 1/2
Pin Plasters	4	12

Independents Is Basketball Team To Stop

The league-leading Independents in the Basketball League downed the All Stars, ORGDP, in the first game of the week 56 to 43. Building up a good lead in the first half, the winners made it stick. Goosby led the winners with 25 points, and Martin tallied 14 for the losing squad.

Y-12's Atoms crushed the Peons, also from Y-12, Wednesday, 70 to 39. Jim George led the Atoms with 29, Carlos Brooks totaled 20. Don Forrester scored 20 for the losing Peons.

ORNL's Metals and Ceramics team, an up-and-coming combination, downed the Analytical Chemistry ORNL combo 48 to 29. M & C saw Jim Atherton score 18, Roy Vandermeer 13. John Jones led the losers with eight.

Y-12's Rebels fell to the Fear-



THE UNISPHERE, SYMBOL OF NEW YORK'S World Fair, is built on a 120 foot diameter framework. The welded structure is made of stainless steel. According to the American Welding Society, a crew of 58 men worked on the structure, 48 of whom were Mohawk Indians, used because of their surefootedness and their lack of fear of heights.

New York World's Fair Is Popular Choice Of Travelers

Hands down, the New York's World Fair took overwhelming leads in the recent survey ran on Y-12ers 'guided' tour type vacations. Several travel companies have come up with proposals and itineraries listed below for the convenience of holiday-minded Y-12ers headed for the fair.

A meeting will be held in the Green Room of the Ridge Recreation Hall tomorrow, Thursday, February 6, at 7 p.m. Those interested in taking any of the three below listed tours should attend. There will be representatives from the travel companies who will answer questions concerning the trip.

PLAN ONE (95 Persons)

Day flight from Knoxville \$160 per person . . . Night Flight \$150 . . . Chartered DC-7 and return. Seven days . . . and six nights, hotel in New York (Statler-Hilton or Astor or similar) twin-bedded room/bath . . . Single room add \$20 to above amounts. Included are a copy of World's Fair Guide Book . . . three admission tickets to Fair . . . orchestra seat at a leading Broadway show . . . after-theatre supper at Leone's . . . Greyhound Motor Coach tour of Fair . . . Radio City Music Hall . . . Greyline transportation to Fair and return . . . United Nations tour . . . and a boat trip from Battery to Statue of Liberty.

PLAN TWO (95 Persons)

Day flight \$143 per person . . . Chartered DC-7 from Knoxville and return. One week in a medium rate New York hotel, twin beds and bath . . . Included are two New York sight seeing tours . . . a matinee theatre ticket . . . two round trips to the fair and admittance charge . . . transfer from airport to the hotel and return . . . a tour of the United Nations . . . and a yacht trip around the Island.

PLAN THREE

By bus from Knoxville and return . . . eight days' trip with a total of four or five days in New York . . . \$103 three in a room . . . \$105 two in a room or \$130 single. This tour includes a

NRA Awards Certificates To Pistoilers

The fourth match of the Y-12 Pistol League saw Ed Bailey fire a scratch high of 269. G. W. Martin came in second with a 257. The high handicap score was fired by W. A. Gregor who bull's-eyed a 289.457.

The National Rifle Association awarded Qualification Certificates with the rating of sharpshooter to the following pistoliers: T. E. Hudson, E. W. Bailey, G. W. Martin, L. A. Shular, R. Matheny and D. R. Alford.

League standings follow:

Firer	Avg. Scratch	H'Cap Score
W. A. Gregor	208	289.457
G. L. Davis	238	286.741
C. V. Terry	224	281.846
T. E. Hudson	172	284.546
E. W. Bailey	269	286.599
G. W. Martin	246	288.872
W. A. Less	239	285.384
E. C. Williams	244	281.625
T. C. Swindell	211	280.042
L. A. Shular	221	290.487
R. Matheny	257	283.751

ride on the ferry to the Statue of Liberty . . . a sight-seeing tour of the city . . . a visit to the World's Fair, including admittance charge . . . a boat trip around Manhattan . . . a free day to do as you please . . . a tour of the United States Capitol, Washington.

So, Y-12ers interested in any or all three of the above tours should attend tomorrow night's meeting. Any question you might have can be resolved then. Further information may be obtained by telephoning Recreation, extension 7109.

Markers Hold Own On Classic Alleys

Individual Tops Go To Perry And True

The Markers kept their slim lead in the Classic League for Y-12 bowlers last week by sharing two points with the Playboys. The only four-point win went to second-place Bumpers over the Smelters.

Three and one-half points went to the Tigers over the All Stars, and three points went to the Rippers over the Has Beens and the Splinters over the Cubs. The Swingsters - Screwballs, Wasps - Wolves, and the Eightballs-Rebels matches all ended in draws with each team taking two.

Tom Perry, Wolves, set the alleys afire in singles with a 225 scratch, 253 handicap game. Allen True, Markers, took series highs, rolling scratch totals of 615 and handicap totals of 693.

The Rebels almost swept the board with singles of 946 scratch, and series of 2652 scratch, 2967 handicap. The Wasps stung their way into the honor circle, taking singles handicap with 1087.

League standings follow:

Team	W	L
Markers	21	3
Bumpers	18	6
Has Beens	17	7
Rippers	16	8
Swingsters	15	9
Tigers	14 1/2	9 1/2
Wolves	14	10
Playboys	12	12
All Stars	11 1/2	12 1/2
Smelters	11	31
Rebels	10	14
Wasps	9	15
Eightballs	6	18
Screwballs	6	18
Splinters	6	18
Cubs	5	19

Volleyballers Open Second Half Schedule

Two make-up games were played in the Volleyball League last week . . . games not played in the first half of scoring.

The ORNL Old Men took Y-12's Eagles for three games, 15-5, 15-2, and 15-13. The champion Set-Ups, ORNL, took the ORNL Champs for two games 15-8, 15-8 and lost one 8-15.

Second half games featured the Old Men, ORNL, defeating the ORNL Scrubs for three, 15-2, 15-2, and 15-10. The Champs defeated the Bums, a new team from ORNL, 15-3, 15-3, and 15-1. Y-12's Eagles downed the Six Pots 18-16, 15-11 and lost one 9-15. The ORNL Set-Ups defeated Y-12's Beavers 15-10, 15-11 and lost one 7-15.

First half standings:

Team	W	L
Set-Ups, ORNL	13	2
Champs, ORNL	11	3
Old Men, ORNL	11	4
Beavers, Y-12	8	4
Eagles, Y-12	4	14
Scrubs, ORNL	2	10
Six Pots, ORNL	1	14

(Four more make-up games remain on the schedule.)

Second half standings:

Team	W	L
Champs, ORNL	3	0
Old Men, ORNL	3	0
Eagles, Y-12	2	1
Set-Ups, ORNL	2	1
Beavers, Y-12	1	2
Six Pots, ORNL	1	2
Scrubs, ORNL	0	3
Bums, ORNL	0	3



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E Bowlers Are Rolling New Last Half

The E League for Y-12 daytime bowlers opened new rollings last week, as the Alley Bees took three from the Pinquins . . . as the Foursquares did from the Pintwisters. The Cannon Balls and Ten Pins split two points each.

Individual bowling honors were split seven ways to Sunday . . . with Leon Hensley, Alley Bees, taking a 205 scratch game . . . L. Keith, Pinquins, and W. Burrell, Cannon Balls, rolling a 238 handicap game. Series highs went to Dwayne Bennett, Foursquares, who took a 544 scratch score and handicap highs went to E. Hightower, Cannon Balls, with a 647. Team honors went to the Cannon Balls in singles with 683 scratch and 835 handicap. The Foursquares captured scratch series highs of 1947 and the Cannon Balls marked high in series handicap totals with 2328.

League standings follow:

Team	W	L
Foursquares	3	1
Alley Bees	3	1
Cannon Balls	2	2
Ten Pins	2	2
Pinquins	1	3
Pintwisters	1	3



MORE \$1 AWARDS GO TO INVENTIVE Y-12ers for United States government Patent Applications. At top, V. M. Hovis, Mechanical Development, receives his letter-of award from E. W. Bailey, department head, as W. K. Whitson, Development Division, looks on from right. In the lower photo, R. C. Waldrop receives his congratulatory letter from H. T. Kite, head of Ceramics and Plastics Development, as Whitson looks on from left. Hovis was given his patent application for the development, "A System for Coordinating the Operation of a Tool With a Pattern." Waldrop's development is entitled, "Isostatic Pressing Method and Mandrel-less Mold Used Therein."

IEEE Meeting Is Set Next Week In Ridge

Guest Project Engineer From Allis-Chalmers



Lawrence E. Nickels

The Oak Ridge section of the Institute of Electrical and Electronics Engineers will meet Thursday, February 13, in the Ridge Recreation Hall, Oak Ridge. The meeting is scheduled for 7:30 p.m.

Featured speaker will be Lawrence E. Nickels, project engineer from Allis-Chalmers Manufacturing Company. He will speak on "The Design of 1100 Kilovolt D.C. Power Supply for the Experimental Transmission of D.C."

The speaker is mainly concerned with design of mercury arc rectifier and semi-conductor power supplies including designing control circuits and specifying associated equipment such as transformers, ac and dc switchgear and power regulators, testing and development work in connection with rectifier power supplies. He is also responsible for engineering and development of 600,000 volt silicon rectifier for the Atomic Energy Commission.

Nickels will give a brief history of electrical power transmission and the subsequent necessity for an extra high voltage dc power supply. Attention will be centered on a description of the 1110 KV dc power and its characteristics, comparing it with the 600 KV dc power supply in Oak Ridge. Slides will be used to illustrate the installation (including the air-inflated plastic dome housing) in various state of construction.

A short discussion will be given on typical basic requirements of a high voltage dc transmission system.

All members and guests will be welcome at the IEEE meeting.

WORD PLAY

The word 'supervision' comes from the Latin 'super' meaning over and 'videre' meaning to see or look. (No, Henry, it doesn't mean over-look.)



An even dozen Y-12ers move into the 20-year veteran circle of Union Carbide employees. Congratulations to them and others observing important anniversaries.

20 YEARS

Charles R. Kasperek, Project Engineering, February 7.

Madison G. Cook, Arc Melting, February 7.

Samuel R. Cowden, Buildings, Grounds and Maintenance Shops, February 7.

Richard E. Dew, Beta Four Heavy Machine Shop, February 7.

Woodrow C. Munsey, Area Five Maintenance, February 8.

Birdie M. Fitzgerald, Time-keeping, February 8.

Frank A. Gragg, Dimensional Inspection, February 10.

Jesse L. Hamon, Stores Department, February 10.

Florence S. Archer, Chemical Services, February 10.

Mildred R. Sparks, Uranium Chemistry, February 10.

Marvin F. Schwenn, Superintendents, February 10.

Sammie C. West, Arc Melting, February 11.

15 YEARS

William H. Younger, Area Five Maintenance, February 13.

10 YEARS

Claude W. Davidson, Electrical Department, February 5.

Don L. Patterson, Buildings, Grounds and Maintenance Shops, February 8.

Jack C. Cox, General Mechanical Engineering, February 8.

George G. Cantrell, Dimensional Inspection, February 8.

Roy E. Worley, Dimensional Inspection, February 8.

Carl V. Redding, Dimensional Inspection, February 8.

Earlie G. Lassater, Research Services, February 9.

Melvin T. Tharp, Uranium Machining, February 10.

Solid Ground May Not Be So Solid After All

When you speak of "solid ground" you may be using a misnomer. Daily tides, similar to ocean tides, cause the ground to rise and fall as much as 18 inches. Dr. John T. Pettit, research associate in the Los Angeles Institute of Geophysics of the University of California, reports that the average earth tide at Los Angeles surges about 11 inches.

The change in ground tides goes unnoticed because each terrestrial tidal wave lifts such a vast amount of the earth at a time. Inasmuch as the ground is elastic, the sun and moon exert the same kind of gravitation attraction as on water.



Rider wanted from Washington Pike and Millertown section, Inskip, via Clinton Highway to East, North or Central Portal, straight day. S. L. McCormick, plant phone 7951, home phone Knoxville 522-5207.

Ride wanted from Lenoir City to Central Portal, straight day. Patricia Bright, plant phone 7-8938, home phone Lenoir City 986-3276.

Two car pool members wanted from East Village, vicinity of East Drive, Oak Ridge, to Central Portal, straight day. Herb Reynolds, plant phone 7213, home phone Oak Ridge 483-6995.

Loose talk is poison.

Young Violinist Performs For ORCMA Saturday

A young violinist who was a prodigy at 11 will perform at the Oak Ridge High School Auditorium, Saturday, February 8 at 8:15 p.m. Marilyn Dubow has made three appearances on TV's

'Telephone Hour' series. She will perform music by Mozart, Bach, Bartok, Beethoven, Bloch, Paganini and Saint-Saens.

Tickets for the outstanding young artist's concerts are available at the Oak Ridge Civic Music Association box office prior to Saturday's performance.



Y-12 KIDS THAT SHINE in the Oak Ridge Wildcat band are seen above in their bright red and silver uniforms. Colorful half-time shows are always a treat at football games, and the talented youngsters gain musical training they would otherwise miss. In the first row, from left, are Mary Palkowski, Bonnie Olka, Bobby-Nicholas, Martha Shatley, Donna Cagle, Sharon Anderson and Margaret Schwenn. Second row: Larry Bender, Joe Mackley, John Legg, Richard Neill, Bob Phares, Evelyn Jones, Carol Needham and Jay Tullis. Third row: Katie Watkins, Janice Baker, John Noey, Allan Coggins, Herbert Miller, Albert Cotton, Suzy Elmore, Carolyn Menchhoffer, Peggy Snyder, Judy Marlar, and Linda Knowles. Fourth row: Eddie Long, Marty Alexander, Jay Cole, Hugh Turpin, Jeff Schmitt, Frances Williams, Billy Carden, Janet Stoner, Lynn Stoner and Linda Turpin.