

## Training's Pearson Will Speak At Apprentice Training Meet

Ralph Pearson, over Y-12's Training and Procedures, will address the Southern States Apprenticeship Conference, Dallas, Texas, next week. The conference is slated for July 26, 27, 28 at the Statler-Hilton Hotel there. Pearson's address is scheduled for Friday, July 27.



B. R. Pearson

## No Place Like It, Absolutely None!

"Be it ever so humble . . . there's no place like home . . . for accidents, that is." So reports the National Safety Council.

Just think . . . home accidents kill more children, from one to four years of age, than any disease.

Home falls take 12,000 lives a year.

Home fires and other burns take the lives of 5,500 persons annually.

Accidental poisoning in the home claims a thousand victims a year.

Home accidents kill 27,000 people a year and injure more than four million.

How are some of the ways this hazard-packed situation can be improved? Here are some of the things to watch for in the home:

- Water or grease on the kitchen floor.
- An unlighted stair and toys or boxes piled on stair-steps.
- Oily rags or papers left in the corner.
- Dull knives which are dangerous because they force the user to apply too much pressure and because most people don't have the proper respect for them.
- Pots on the stove with handles turned out for little hands to grab.
- Rubbing alcohol, candy-coated laxatives and aspirin left for small children to sample.

## League Of Women Voters Sets Candidates' Rally

Candidates of the forthcoming August 2 election will be guests of honor at a "meet-the-public" gathering next Wednesday, July 25. The meeting will be held at the Oak Ridge Playhouse, Jackson Square, and will begin at 7:45 p.m.

The League of Women Voters, who is sponsoring the event, state that more than 50 candidates will be present to be introduced. Another such rally is planned for the Courthouse lawn, Clinton, to begin at 7:30 p.m., Friday, July 27. This one will be complete with hill-billy bands and candidates.

The treatise on the Y-12 apprenticeship program was authored by Pearson, and co-authored by Ken Sommerfeld, Machine Maintenance.

The conference is sponsored by 10 participating states: Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, Oklahoma, South Carolina, Tennessee and Texas, in cooperation with the United States Department of Labor. Its main objective is to further the apprenticeship effort throughout this section.

Pearson's topic will be "Requirements of Training for Tool and Die Makers to Prepare for Automation." It outlines the preparations necessary to train the machinist in the operation of a tape control machine. Summarizing the basic training requirements for the preparation of automation, Pearson points out that four basic requirements are needed: pride in workmanship; a good understanding of mathematics, specifically trigonometry and solid geometry; the ability to visualize the overall picture of a job; the ability to work harmoniously with other people.

A native of Manchester, Tenn., Pearson holds a BS degree from the Tennessee Polytechnic Institute, Cookeville; and an MA from the George Peabody College for Teachers, Nashville. A former teacher, he came to Y-12 January 19, 1953. He is married to the former Imogene Billings. They live with their two daughters on Woodland Drive, Clinton.

He served in the United States Army in the European Theatre during World War II.

The Texas conference is the fourteenth such annual conference to be held.

## AIChE Plans A Summer Seminar

The Knoxville-Oak Ridge Section of the American Institute of Chemical Engineers announces its summer seminar to be held Tuesday and Thursday, August 7 and 9. Leading the seminar will be Willard Reel and Howard Whetsel, Oak Ridge National Laboratory, holding symposia. "How Can You Become a Better Communicator?"

The meetings will be held in Room 18, Oak Ridge Institute of Nuclear Studies Training Building from 8 a.m. until 10. The enrollment fee is \$4 to AIChE members, \$7 for non-members. Registration fees must be received by August 3. To enroll, send name, address, and check payable to the Knoxville-Oak Ridge Section, AIChE, to: C. W. Barkow, Building K-1029, ORGDP, P.O. Box P, Oak Ridge, Tenn.

## VIKINGS NAMED IT

The expression "portside" was given to the left side of a ship by Ancient Vikings. They always drew their ships alongside the dock with the left side nearer land . . . hence "portside." To avoid damage to the steering board" was another advantage of such docking . . . hence "starboard."

## Linde Leaps Into Age Of Space With Fuel

### UCC Division Awarded Nitrogen Contract

A \$1.3 million National Aeronautics and Space Administration contract for liquid hydrogen handling facilities at Cape Canaveral has been awarded to Union Carbide Corporation. The special handling equipment will be used at the "Complex 34" launch pads from which NASA's Saturn rockets will be fired. Linde Company, Division of Union Carbide, will be the prime contractor responsible for the design, fabrication, and installation of the equipment on a cost-plus-fixed fee basis.

Saturn, the free world's largest rocket, is scheduled eventually to transport a three-man team around the moon. It is also scheduled to place instrument probes on the moon, Mars, and Venus. For these advanced projects, its upper stages will be powered by liquid hydrogen-fueled engines. Hydrogen is the highest energy fuel for chemical rockets, yielding 40 per cent more specific thrust than any other fuel.

Until now, the only cryogenic facility at Complex 34 was for handling liquid oxygen. Liquid hydrogen, with a boiling point of minus 423°F., requires additional cryogenic handling equipment. According to William B. Nicholson, president of Linde, the system that the company will install includes a 125,000 gallon liquid hydrogen storage tank, special vacuum insulated transfer piping, and purge lines for various parts of the system. The liquid hydrogen will be moved from storage tank to test and launch pads by means of pressure transfer. Specified liquid conditions will be achieved at the delivery end by means of vacuum pumps linked to the sub-coolers.

### Design At Huntsville

Detailed electrical design work will be carried out under a sub-contract by Chrysler Corporation, working under Linde engineering supervision, at NASA's George C. Marshall Space Flight Center, Huntsville, Ala.

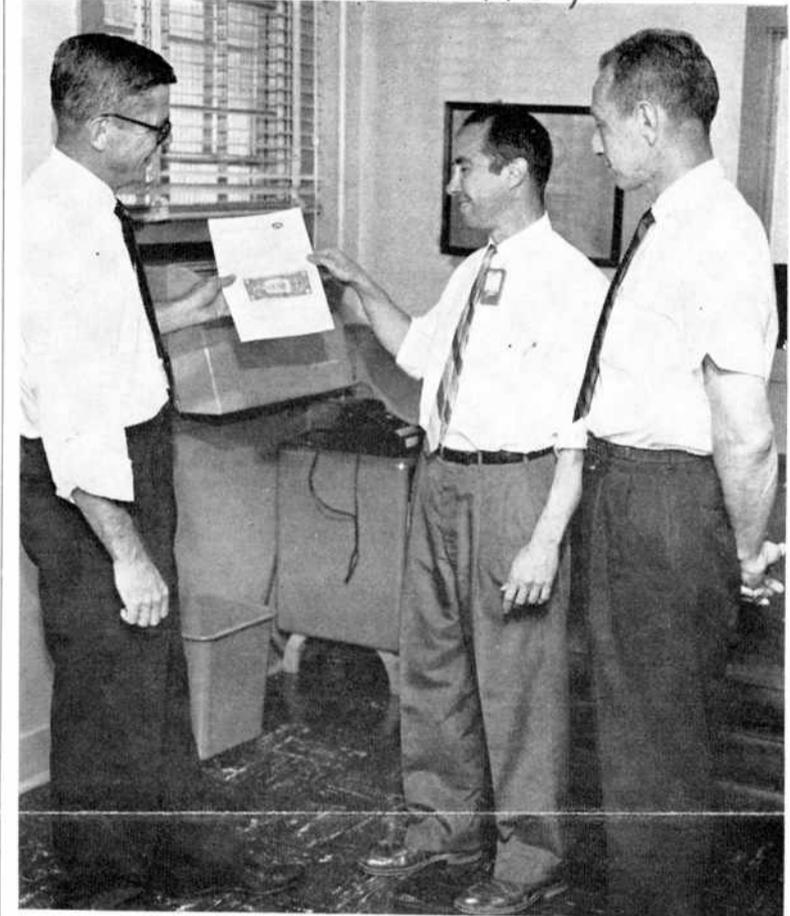
Linde's Nicholson pointed out that to supply the hydrogen needs of NASA contractors, Linde now operates two liquid hydrogen plants at Torrance and Ontario, Calif., with combined capacity of over 32 tons per day. The company is currently negotiating with NASA for a contract, worth \$75 million, to supply an additional 275 million pounds of liquid hydrogen over the next seven years. To meet this increased demand, Linde will build a new liquid hydrogen plant in excess of 50 tons per day at Sacramento, Calif. When completed, this plant will be the largest liquid hydrogen-producing facility in the United States.

## SAFETY SCOREBOARD

The Y-12 Plant Has Operated 116 Days Or 3,875,000 Man-Hours (Unofficial Estimate) Without A Disabling Injury Through July 15 Phone 7755 For Daily Report On Accident-Free Hours

## Ralph Levey Receives 8th Patent Application For Pressure Device

6-11090



RECEIVING HIS EIGHTH patent assignment 'dollar' is Ralph P. Levey Jr., Chemical Engineering Development, center. Roger F. Hibbs, superintendent of the Technical and Development Divisions, presents Levey his patent letter, as George B. Marrow, head of the Chemical Engineering Development Department, looks on from the right.

## Chemical Engineering Development Engineer Is Old Hand At Patent Developments In Y-12

### On Patents . . .

In writing in the Spring, 1961, issue of The Patent, Trademark, and Copyright Journal of Research and Education, The George Washington University, on "The Patent System from an Inventor's Point of View," Carl E. Barnes, Vice President, Research, Minnesota Mining and Manufacturing Company, makes these significant observations:

"Although I am no longer directly concerned with inventing, time was when I spent all my waking hours in search of new products and new ideas. I found then that I was strongly motivated to try new experiments in the hope of discovering something patentable; I still believe this is a tremendous incentive.

"For many technical people the first patent is still a-borning, and I'm sure these people have been exposed to the idea from one source or another that as long as they have to assign their patents to the company for whom they work, part of the incentive is gone. Let's get this one straight. First and foremost, don't ever lose sight of the fact that a United States Patent is issued in the inventor's name, and although he assigns the rights to his company, his name will forever be attached to that patent. This is his indisputable claim to being an accomplished inventor, and no one—no company—can take this away from him. The more patents

Ralph P. Levey Jr., Chemical Engineering Development, may well become "Y-12's answer to Thomas A. Edison." He was recently presented his eighth patent application award, making him one of the "inventing-est" men in the plant. Several more of his applications are on file awaiting acceptance.

Levey's latest patent assignment is for an "Ultra-High Pressure Device."

Intensification of pressure is very old in technology, but isostatic pressure (or subjected to equal pressure from every side) has been one of the primary and more elusive goals of workers in this field. The secret of Levey's breakthrough is found in a strategic combination of several elements in the intensifier.

### High Pressure Involved

Specifically, the development provides a grouping of geometrically contoured members converging on an ultra-high physical strength die and plunger to supply additional physical strength to the walls of the die. This feature also creates a seal between the sliding plunger and the die so as to prevent out-leakage of the fluid pressure transmitting medium required to give isostatic pressure conditions within the interior chamber. Combined with these two features is a third by which a selected pressure is maintained around that portion of the plunger outside the die. By a system of precision valving, this third feature provides lateral support to the plunger throughout

# The Bulletin

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## Goodwin Daughter Is Blue Mountain Grad

Versatile Student  
At Southern Illinois



Frances Goodwin

Receiving her BA degree in speech last month was Frances Goodwin, daughter of Mr. and Mrs. Andy T. Goodwin, Route 5, Clinton. Her father is in Y-12's Process Maintenance. Frances graduated from Blue Mountain College, Blue Mountain, Miss. The young graduate took a minor in art. She was a member of The Players her four years in college.

Presently she is a member of the Southern Players at the University of Southern Illinois, Carbondale, Ill. One of the 14 graduates from 80 applicants from seven Southern states, she was chosen to participate in the summer stock work. Five plays will be presented in dialect during the summer.

The versatile actress maintained a high B average during her four years of school and was granted the technical award in both her junior and senior years. In her last year at Blue Mountain, she was presented the best actress award for her role of Mrs. Duke in "The Happiest Millionaire."

Frances plans to do her graduate work at Tulane University after her busy summer.

## Ridge Postal Receipts Gain 8.8% In Year

Postal receipts of the Oak Ridge Post Office for the fiscal year ending June 30, 1962, were \$398,107.83 . . . an 8.8 per cent increase over the previous year's receipts. Postmaster Van Hicks says that this is one of the highest increases in any one year since 1946.

More efficient mail handling is expected after postal employees occupy their new building facilities. Ground-breaking is expected next month in the long-awaited new Post Office for the Atomic City. The Oak Ridge Post Office's volume would be much larger if penalty mail for the Atomic Energy Commission and other governmental agencies were counted. This volume would have pushed the local postal receipts to well over a half million dollars.

The Communist empire is built on sabotage . . . don't contribute.



A good quote that was passed this way recently is as follows. Shortly after the United States resumed nuclear testing in the Pacific, a high government official was heard to remark: "This is going to bring the old ladies in their tennis shoes out again!"

Quoting the capable reporters around Y-12, it's learned in

### CHEMICAL OPERATIONS

A vacationer in the Chemical Department is **Connie W. O'Neil**, seeing the beautiful sights around Panama City, Fla. . . . **J. A. Coleman** decided to spend his vacation around the old homespot in Clinton.

To put the female in a rage . . . Just ask her weight and then her age.

### INDUSTRIAL RELATIONS

Fire and Guardsmen report that the "hallway conductor" in Building 9704-2, **Shirley Honeycutt**, is vacationing over at Aiken, S. C. In case Shirley is worried about what's going on . . . everything's O.K. He is missed 'round here, hear! . . . **G. F. McPherson** vacationed seeing the Daytona International Speedway races . . . sez it's a great, big, wonderful place . . . **A. A. Pierce** and his family vacationed in Canton, Ohio, visiting relatives and in Johnson City and Elizabethton for three full weeks . . . Captain **J. H. Shoemaker** and Lt. **E. M. Hunnicutt** just vacationed around home . . . Get well wishes are speeded to **A. J. Ballinger**, ill in Bradley Memorial Hospital, down in Cleveland.

Picture-poor Liz came up with the following:



IT'S TWINS!!

**L. A. Litton** is mighty proud of these two grandsons, who put in their appearance June 18 at Fort Sanders Presbyterian Hospital. The little one on the left is Scott Nelson, who weighed only four pounds, eight ounces and big brother Steven Todd, who weighed six pounds, five ounces. They are the children of Gary and Libbie Litton, 5401 Central Ave. Pk.



Tracy S. Parker

Another proud grandpops came up with this wise looking little man. He is **Tracy Scott Parker**, grandson of **A. A. Pierce**. Tracy was born March 10, and is the son of **Lucy Parker**, former employee in Mechanical Operations.

**Bossman George W. Flack**, Industrial Relations, vacationed last week looking over the old estate at Daytona Beach, Fla. . . . Up thataway, **Hazel Lane** recently vacationed in Gatlinburg.

Down thisaway, in **Benefit Plans**, **Art Hines** played in a recent golf tournament in Kentucky . . . didn't win, though . . . even lost to his brother. Art says his brother had beginner's luck. . . . **Nina Ball** recently vacationed at Myrtle Beach, S. C.

Golf is no longer a rich man's game. We know many, many poor players.

### FINANCE AND MATERIALS

The Mail Room has **Evelyn Crouse** on vacation this week in Virginia . . . **Margaret Anderson** plans to stay at home and rest in Knoxville this week . . . **Orel Hartman** is sent condolences on the recent death of his brother.

Microreproduction and Engineering Services has **J. K. Chance** taking a chance on a wonderful vacation in North Carolina, Georgia and Kentucky . . . **T. R. Gadsden** vacationed last week.

The Cashier and Travel Office misses **Wanda Hawn's** pretty face. She is ill, and best wishes from all around are wafted her way.

The Stores Department has **T. C. Hudson** and his family having a good time vacationing at Myrtle Beach . . . **C. O. Poland** is convalescing at home after having spent a week in the Rockwood Hospital. It is hoped he will be able to return to work soon . . . **B. E. Henry** and his family spent their vacation down Florida way.

Material Control reports that **Sarah Coram** surprised a former Y-12er last week with a birthday cake and coffee, entertaining several former Y-12ers as well as present ones. She honored **Mildred (White) Judish**, formerly of Maintenance. Other ex-Y-12ers attending were **Loraine (White) Engel**, **Jean (Granstaff) Jones**, and **Peggy Scott**. Also there to talk about old times were **Joan Lusk**, Maintenance Division, **Blanch Miller**, Material Control, and **Betty Brown**, UCNC's Purchasing.

The best way to get along with some people is just try and get along without them.

### MECHANICAL OPERATIONS

Special Mechanical Production, H-2, has **H. W. Dickenson** vacationing recently at Myrtle Beach. . . . **W. R. Yaden** is ill and best wishes to him . . . **J. A. Moon** vacationed, no one seemed to know where . . . **J. L. Arms** and **B. R. Lundy** just stayed around home while vacationing . . . **J. Lovegrove** and **H. Whaley** decided to rough it and camp out on the lake and fish to their heart's content.

The General Machine Shop reports a new baby in the midst . . . **Annette Kay Mack**, born July 5 to Mr. and Mrs. **Odeva Mack**, at 1:04 p.m. She arrived at the Chamberlain Hospital, Rockwood. Congratulations! . . . **C. S. Blaha** vacationed in Petersburg, Va. . . . **Lucille Pruitt** is vacationing at home in Oak Ridge enjoying her daughter **Cissy's** visit. Cissy now lives in New York, and is a former Y-12er herself . . . **Perry Bullard** vacationed in spots unknown . . . **Lewis B. Gillis** and his family vacationed over on Myrtle Beach, S. C. . . . On the ailing list is **Dudley Hall**, and best wishes from all to him.

Beta Four's Heavy Machine Shop comes in with a heavy load



THE ROY HALE HOME gets a new roof, thanks to fellow workers in the Timekeeping Department. At left the crew is hard at work . . . in the photo at the right they pause long enough to pose for actual proof of their efforts. From left are Howard Phillips, Grady Lovely, L. D. Nicely and Ira J. Shotts. The crew came out on a recent Saturday to help Hale install a new (from the rafters up) roof on the house.



## Timekeeping's Hale Has Ideas On How To Get Home Jobs Done

Roy Hale doesn't live in a house that Timekeeping built, but it's close. His friends in the Timekeeping Department on a recent week-end came by and helped put a new roof on his residence on Reed Road, in Powell. This is living up to the old tradition of "house-raising" that was predominant in this area during early pioneer days.

Hale says he got up early to tear the old roof off, and by the time the crowd arrived he was ready for them. New rafters were

put up, and felt paper was put down. This temporary roof gave protection to the house until the shingles could be applied later. Hale put the shingles on himself.

The boys brought a picnic lunch to enjoy in the yard during the day's work. Taking part in the expedition were Howard Phillips, Grady Lovely, L. D. Nicely and Ira J. Shotts.

The very appreciative Hale feigned surprise when he was asked if he remembered how Tom Sawyer got his Aunt Polly's fence whitewashed.

of news this week . . . **G. E. Carden**, **G. F. Campbell** and **H. C. Day** all stole off on vacation without telling anyone . . . **Lloyd Johnston** did tell, however; said he was just going to relax at home, resting up from his labors.



Sharon Kaye Mustin

From Beta Four's Assembly and Forming comes this little miss. She is **Sharon Kaye Mustin**, the daughter of Mr. and Mrs. **R. J. Mustin**. She arrived at the Oak Ridge Hospital, June 22, weighing six pounds, three ounces.



Jimmy Gill & Jimmie Sparks

Our little King and Queen are **Jimmy Gill** and **Jimmie Sue Sparks**. They were elected the

last day of school for 1961 and 1962 school year for the Fairview School in the Solway Community. **Jimmy** is the son of Mr. and Mrs. **J. D. Gill**. His dad is in the Production Inspection Department. **Jimmie Sue** is the daughter of Mr. and Mrs. **Jim Sparks**. She also has two uncles in Y-12: **Bill Sparks**, Mechanical Department; and **Fritz Sparks**, Maintenance.

Taking two weeks is **R. L. Coffey**. The first one will be spent in North Carolina visiting his son who is in the Air Force and then on to Miami, Fla., to see all the sights down there . . . **W. B. Redmon** didn't go fur from home, just stayed at home in Wartburg.

**N. B. Beason** kept up the lazy tradition for the department by staying at home around Oak Ridge . . . **A. E. Harrell**, **C. W. Goodin**, **C. S. Sherrod** and **J. W. Sebring** are out with various and sundry ailments and best wishes to them . . . the men, not the ailments.

### ENGINEERING

Civil and Architectural Engineering pipes in news of vacationers recently — **R. C. Rosenving** and family in Florida . . . **W. L. Ingle** headed for Chicago. **H. F. Wentworth**, whereabouts unknown . . . **G. E. Reece** and **W. H. Rice** went to Kentucky and Florida, respectively and respectfully.

Get well wishes are rushed to **J. T. Huffaker** . . . **W. A. Sloan** and **Joe Litvin** both vacationed in the Carolinas . . . **P. B. Caldwell** is sporting a new car . . . **C. E. Oldham** is making preparations to move into his new house in Lake City . . . **A. E. Hutchins'** son, **Charles**, is attending Murray State College, Murray, Ky. David recently was awarded a music scholarship . . . "Bill" **Grizzell** recently visited her son, **Tim**, who is working at a camp in Ridgecrest, N. C. The underground word is that **Tim** is really going to be some Wildcat football player this coming year! . . . **R. E. Hulme** and his wife recently entertained friends from Bradford, Pa.

Tool Engineering folks are congratulating **E. J. Asbury** on the arrival of his new daughter. **Holly Delys Asbury** was born July

# Slo Pitch Starts Second Half Play; 3 Y-12 Teams Grab Early Top Berth

Eagles, Shifters And Atoms Win Two Games; Fly Swatters And Kentucky Wonders Win One

The second half of the Slo Pitch League for Carbiders got under way last week, with two games left to be scheduled in the first half. Still to be played are the tilts between the Codgers from Oak Ridge Gaseous Diffusion Plant, and Y-12's E Wingers; and ORGDP's Kentucky Wonders and Y-12's Shifters. If the Wingers and Wonders both win their contests, they will then have to have a play-off game to determine the first half champs.

Second half of the league games got started as the Y-12 Tabs went down to defeat before the hands of the ORGDP Fly Swatters, 7 to 12. The Tabs out-hit the Swatters as Loyd Wyatt had two triples, Rule and Riggs had one each. But the six errors chalked up against them were too much. Box and Carter tripled for the winning Swatters.

Line scores	R	H	E
Fly Swatters	12	9	2
Y-12 Tabs	7	11	6

Batteries: Fly Swatters: Box and Carter. Tabs: Harris and Jones.

In a free-wheeling, big dealing game the Y-12 Atoms crushed the Generals, another team from Y-12, 29 to 13. The Atoms came through with 14 runs in one inning, the last one! Darry Daws clobbered two homers, while B. Davis hit one. Davis also had two triples as did Pitcher Edd Cothron. Also tripling were Sise and Cavosie. For the losers it was Gibson with a homer, Miller with a triple.

Line scores	R	H	E
Atoms	29	33	5
Generals	13	20	6

Batteries: Atoms: Cothron and Hill. Generals: Moneymaker and Gregg.

Three games got played over at Pinewood Tuesday night, as the mighty E Wingers of Y-12 fell for their first game in this half to the ORGDP powerhouse, the Kentucky Wonders, 2 to 7. The Wingers had no multiple-base hits from their 10, as the Wonders registered homers under the bats of Nier and Owens. Hagood pitched to one man for the E Wingers. Both teams shared the 10-hit tally . . . the E Wingers suffered three miscues, however, to the Wonders' none.

Line scores	R	H	E
Kentucky Wonders	7	10	0
E Wingers	2	10	3

Batteries: Kentucky Wonders: Foreman and Glen Harris. E Wingers: Collins and Wright.

Y-12's mighty Eagles belted the ORGDP Whiffers 16 to 3. John Pridgeon hit THREE HOME RUNS . . . or six in a row at bat. Hitting three-baggers for the victorious Eagles were Yaggi, Davis and Bittner as Evans hit two.

Line scores	R	H	E
Eagles	16	21	3
Whiffers	3	7	2

Batteries: Eagles: Blanks and Hulsey. Whiffers: Elrod, Smith and Perry.

Y-12's new entry into the field, the Slip Sticks, lost their first game of play as they fell to ORGDP's Codgers, 19 to 4. Hitting four-baggers for the winning combination were Harrison, Hall and Corn. Fogg and Ross doubled for the losers, accounting for the only big ones for the Slip Sticks. (Manager Jack Anderson explains that 'Slip-Stick' is Engineering slang for a slide rule . . . clever, these engineers!)

Line scores	R	H	E
Codgers	19	22	5
Slip Sticks	7	4	5

Batteries: Codgers: Iacovino and Johnson. Slip Sticks: Febbo, Fogg and

Y-12's Shifters took a double-header Thursday night at Jefferson. Their first game saw them decimate the Tabs by a score of 7 to 4. For the winning team, Grubb homered, while Thompson, Roe, Sommerfeld, and Slager had triples. For the losing Tabs, Bass, Wyatt, Riggs and Childress had doubles; for the winners it was Grubb, Bates and Rutherford.

Rose.			
Line scores	R	H	E
Shifters	7	16	
Y-12 Tabs	4	16	

Batteries: Shifters: Rutherford and Lincoln. Tabs: Ryder and Lucke.

The Shifters racked up their second victory of the night as they whipped the Whiffers, 11 to 7. For the losing Whiffers it was Cook and Lane to come through with the long home-runs. For the winning team Everett, Bates, Balton, Borum, Thompson, Roe, Lincoln, Sommerfeld all had doubles.

Line scores	R	H	E
Shifters	11	22	
Whiffers	7	16	

Y-12's E Wingers came back from their initial loss to blank the Slip Sticks, 10 to 5, Thursday. Even though the Sticks had one more hit than the Wingers, they were scattered. Collins had a four-bagger for the winners; Hardin tallied one for the losers.

Line scores	R	H	E
E Wingers	10	10	3
Slip Sticks	5	11	4

Batteries: E Wingers: Hagood and Mingie. Slip Sticks: Anderson and Rogers.

Y-12's Atoms, improving after their shoddy performance during the first half of league play, defeated the ORGDP Fly Swatters, 10 to 4. B. Davis and J. Davis had homers for the Atoms, while Slatery tripled for the losing team. B. Davis also doubled for the Atoms, along with Hill and Myers.

Line scores	R	H	E
Atoms	10	15	0
Fly Swatters	4	8	2

Batteries: Atoms: Cothron and Myers. Fly Swatters: Box and Carter.

The final game at Pinewood saw the Eagles swoop down and claw the ORGDP Codgers, 5 to 3. The only many-bagger one for the losing Codgers was a double by Roach. Evans homered for the winning Eagles, while Mont Kendrick earned a triple, after the second baseman kicked the ball into centerfield.

Line scores	R	H	E
Eagles	5	10	2
Codgers	3	5	0

Batteries: Eagles: Blanks and Hulsey. Codgers: Blanks and Hulsey.

Second half standings follow:

Team	W	L
Eagles	2	0
Shifters	2	0
Atoms	2	0
Fly Swatters	1	0
Kentucky Wonders	1	0
E Wingers	1	1
Codgers	1	1
Generals	0	1
Whiffers	0	2
Y-12 Tabs	0	2
Slip Sticks	0	2

## Akers-Sinclair Go Lossless In Golf

Miniature Putt-Putters Finish First Half

The Putt Putt League for Y-12ers got into high gear last week to finish up the first half of league play. Eager to get started so that new teams may participate in action, the Putt Putters played two weeks jammed into one.

The Akers-Sinclair pair continued their march of undefeated contests by downing the Boswell-Isham team by 24 strokes. Art Hines and Ralph Pearson edged out Mary Cusman and Gail Gilliland by 21 points.

Other matches played saw Cantrell-Young take their first win from Virginia Boswell and Jo Ann Isham by a 27-stroke margin. The Hines-Pearson second-placers finished off the first half with a close duel between Steve Porter and Bob Harte as Hines-Pearson won with a nine stroke lead. It was closer than the score indicated, however, as Hines shot



WATCHING A FAST CLIPPING PUTT at a recent golf tournament for Y-12ers are these above-the-average golfers as W. A. Rutherford sinks a six-footer. From left are L. C. Watson, Gene Huskisson, Floyd Ludwig, Joe Comonlander and putter Rutherford. Y-12's next golf tournament is slated for the Springbrook Country Club greens, Niota. (See insert map for directions to Niota.)

## Gun Club Holds Small Arm School

DeWalt And Searles Will Be Instructors

The Anderson County Gun Club is sponsoring two small arms schools. The adult class will begin Wednesday, August 1, at 7 p.m. at the Gun Club's indoor range located on the old fairgrounds off Nave Street, Clinton. The junior class will begin Tuesday, July 31, at the same time and place. The adult class (18 years and older) will run five weeks, meeting on each Wednesday night from 7 until 9 p.m. The junior class (11 years and older) will run for seven weeks, meeting on Tuesday nights at the same time.

The gun club has all necessary equipment available, including rifles, spotting scores and ammo. The cost for the complete course will be \$3. Upon completion of the adult course, anyone who so desires may continue to fire by joining the Carbine League or the East Tennessee Gallery Rifle League which will start in September.

This course is recommended for both men and women who are interested in safe gun handling and basic rifle instruction whether it be for self-protection, hunting, or competitive shooting.

Adult classes will be taught by Dave DeWalt, telephone extension 7-8468 . . . and the junior class will be conducted by Bert Searles, on telephone 7-8265. Additional information may be had on either of the schools by calling DeWalt or Searles.

## Saturday Picnic Planned By Mechanical Inspection

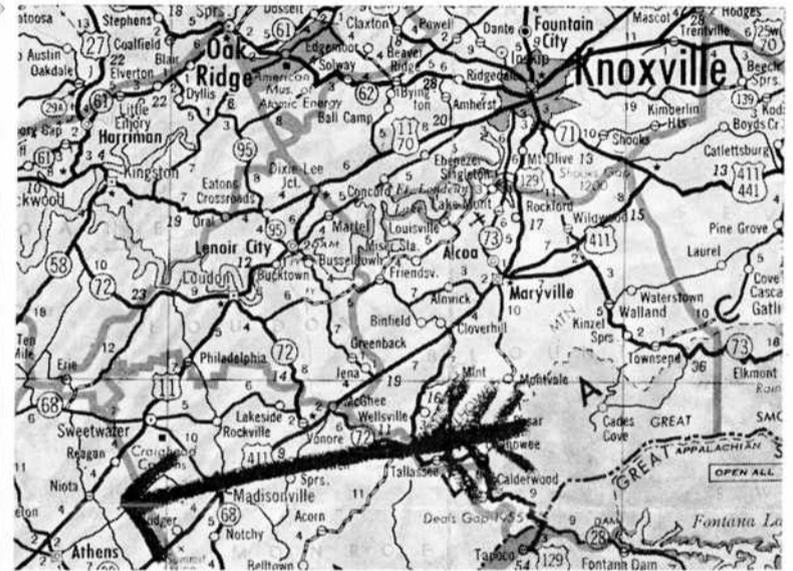
Mechanical Inspection personnel are planning a picnic Saturday, July 21, at 2 p.m. at the Inskip Lions Pool.

Games for the children will be offered, as well as games and dancing for the adults, or just plain loafing, according to MI folks. Each person is asked to bring a covered dish, and the trimmings are promised on the house. Admission tickets are free and are available from either Harold Payne or Bert Searles.

a 39, or nine-under-par while Harte putted for a 38, or 10 under.

First half standings follow:

Team	W	L
Akers-Sinclair	5	0
Hines-Pearson	4	1
Porter-Harte	3	2
Cusman-Gilliland	2	3
Cantrell-Young	1	4
Boswell-Isham	0	5



## Y-12 Golfers Gather Next Saturday At Niota For Fourth Tournament

Y-12 golfers will gather Saturday, July 28 for their Fourth Golf Tournament of the year at Niota. The Springbrook Country Club greens are new to plantmen, and the accompanying map details instructions on how to arrive at the course.

Tee-offs will be taken Tuesday, July 24, in the Recreation Office. Golfers are reminded that they are guests at the Springbrook

Club, and are asked to remember the common rules of golf etiquette.

Play gets under way at 6:30 a.m. Men are requested to be at the first tee at least 20 minutes before their scheduled time. This moves the competition along in good shape, and faster golfers allow sometimes for the schedule to not only keep up with itself but move ahead.

## Horse-Shoers Finish First Half Of Play

The Horseshoe League for Carbiders has finished its first half of play . . . and Y-12ers did very well in both leagues. In the League it was two Y-12 teams vying in a tie for the first place as Wyatt-Ryder ended with 44 points won, 19 lost, as did the team of Gallman-Fincher.

The X League saw Stanley-Raper fall only one point short of first place, and the Kendig-Johnson combo fall into fourth place.

Y League standings follow:

Team	W	L
Wyatt-Ryder (Y-12)	44	19
Gallman-Fincher (Y-12)	44	19
Harness-Hutto	42	21
Oliver-Madewell	33	30
McGinnis-Tillery	32	31
Kapleman-McNally	32	31
DeRieux-Helms	17	46
Clark-Waggoner	8	55

X League standings follow:

Team	W	L
Luckett-Barger	41	13
Stanley-Raper (Y-12)	40	14
Durham-Reel	26	28
Kendig-Johnson (Y-12)	19	24
Leonard-Gray	17	19
Wagner-Simmons	13	23
Case-Walden	6	39

## B Shift Sets Picnic At Concord, July 26

The B Shift Recreation group is planning a picnic for Thursday, July 26, to take place at Concord Park. There will be free watermelons, cantaloupes, and soft drinks. Swimming will also be free.

A total of five drawings will be held for door prizes. B Shiftmen, their families, and other groups are welcomed to the picnic.



"He seems to be in one of his gayer moods this morning."

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CHEMICAL OPERATIONS SUPERINTENDENT R. A. Walker presents June's Poster Contest winners with their awards. In center, the first place winner, F. A. Thurman, Product Processing, accepts the sleeping bag he chose as his award. At right is M. L. Bailey, Radiation Safety, who took the golf cart as his second prize. July's poster contest offers "Fire Prevention" as its theme, and awards of a drill attachment and a handsome piece of women's luggage.

## June's Safety Poster Contest Winners Are Announced As Thurman Takes First Place

Product Processing's Frank A. Thurman made off with June's safety poster contest with his entry on laboratory safety. He used lab equipment to point out his fine safety idea. Taking second place was Marion L. Bailey, Radiation Safety. Thurman chose as his award the sleeping bag, while Bailey accepted the golf cart as the second prize.

July's contest, now in full swing, is for October's agenda on "Fire Prevention." Prizes for this

month's contest are a drill attachment set, and a piece of woman's luggage. The drill attachment set accompanies the luggage, and not the Corningware as previously stated in The Bulletin.

The entire month of October is dedicated to the prevention of fire in both industry and the home. Y-12ers should find wide latitude in ideas to submit for this contest.

Entries should be in the Safety Office by the deadline of July 31.



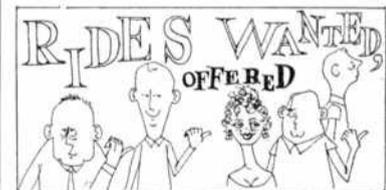
Get well wishes are speeded to the following employees who were patients last week in the Oak Ridge Hospital:

Kenneth E. Love, Alloy Shop; Frank J. Blair, Process Maintenance; Orland C. Blanton, Alpha Four Cascade Operations; James A. Margraves, Guard Department; Neil A. Parrish, Chemical; James H. McCulley, Research Services; Dudley L. Hall, General Machine Shop; Doris Q. Thomas, Project Engineering; and James E. Holbert, Buildings and Grounds.

## Connecticut's Choudhury Will Lead ORNL Seminar

D. C. Choudhury, summer visitor from the University of Connecticut, Storrs, Conn., will lead the Physics Division seminar this week. His subject will be "Effects of Configuration Mixing on the 3-State and (p,p') Reaction in the Distorted Wave Approximation."

The Oak Ridge National Laboratory seminar will be held in the East Auditorium, Building 4500, at 3:15 p.m., Friday, July 20, and is open to all interested technical personnel.



Ride wanted or will join car pool from vicinity of Louisiana Avenue, Jefferson, West Outer Drive, Oak Ridge to North Portal, straight day. Joan Wallace, plant phone 7719, home phone Oak Ridge 483-4028.

Ride wanted from Copper Ridge Road, Karns community, to Central Portal, straight day . . . or riders wanted to East or Central Portal. C. B. Bridges, plant phone 7-8635, home phone Knoxville 588-6382.



Continued From Page 2  
 7, weighing six pounds, eight ounces . . . H. A. Pohto is on a two week naval cruise in the waters off Key West, Fla. Sure sounds like rough duty . . . Russ Gossie had not formulated vacation plans by press time.

Taking off to see the sights at Daytona Beach was Bill Horner. . . A heap of changes around the parts has Art Brewer, Lon McNeil, Burl Chambers all welcomed into the group . . . with adieus for M. B. Hilton, transferring to Process Engineering and to Tommy Swindell going to Project Engineering . . . Don Stinnett, Gary Martin are welcomed in from the Beta Four Tool Design group.

A short course in women's designs will reveal that some women, of course, were not designed to wear shorts.

## UTILITIES AND SHIFT SUPERINTENDENTS

Vacationers all over the place include A. H. Shubert visiting Indian Rocks Beach, Fla., with his family . . . N. M. Standridge did some camping on Chickamauga Lake. (Tennessee is getting so many lakes that it's difficult to keep up with them.) . . . R. B. Amos and H. B. Renfro plan vacations at home for rest and relaxation . . . J. B. McNabb went a-vacationing in parts unknown.

Also vacationing is J. H. Potter to spend most of his time at home, but will make a short trip to Clarksville to pick up his children who have been vacationing at their grandparents' home . . . Jackie and Milo Ward reveal plans to visit in Johnson City and in Gate City and then on to a Ford reunion in Powell Valley, Va.

In parts unknown vacationing is G. M. Kirtland . . . also E. E. Robertson in the land of mystery.

Just because you can't sleep, you have no right to keep sheep awake jumping over a fence all night!

## TECHNICAL



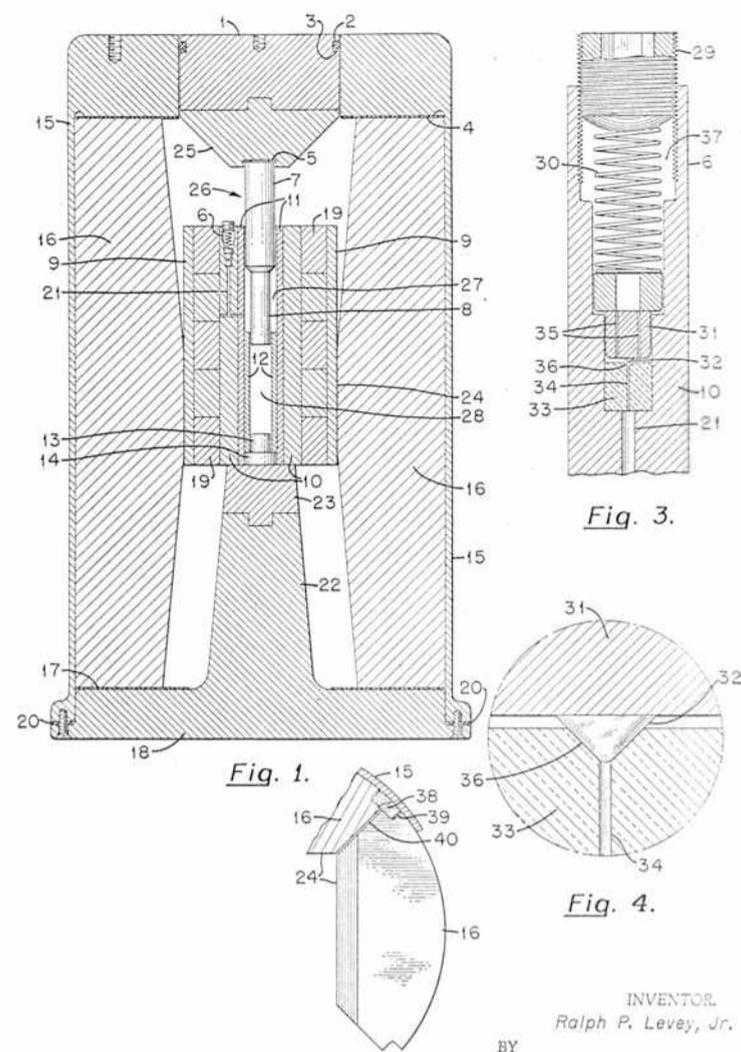
'Suzette' Lynne Bryan

Here is the 10-week old daughter of Mr. and Mrs. John R. Bryan, 112 Prairie Lane, Oak Ridge. The father is in the Production Inspection Department. She is little 'Suzette' Lynne Bryan, and was born at the Oak Ridge Hospital, February 9. Her weight when the picture was made was 11 pounds, five ounces, and she was 23 inches tall.

Pathologists reveal that plants suffer often from human diseases. This is news? Haven't they ever heard of itching palms?

## MAINTENANCE

Electrical 'lows that O. C. Collins and T. E. Rogers vacationed recently by staying around home and doing a little fishing . . . D. E. Lane recently took his



A SCHEMATIC DRAWING OF the "Ultra-High Pressure Device," designed by Chemical Engineering Development's Ralph Levey is shown. The figures shown in the drawing identify the parts by actual name and metal. Figure one is the overall view of a cross-section of the device. Levey was recently awarded his eighth dollar patent award for this development.

## On Patents . . .

Continued from Page 1  
 that bear his name, regardless of what he did with the rights to them, the greater is his standing in the technological community. Issued patents are tangible evidence of his worth as an inventor, and they are perfectly salable in his quest for a job wherever he goes."

grandchildren to Gatlinburg for a vacation of fun and relaxation . . . Al L. Sawyer took off to Gatlinburg to camp for a big vacation . . . big rains, big bears, and big sunburns . . . C. C. Crisp is vacationing out Montana way and fishing for the big trout in the Madison, Big Hole, Rube, and Beaver Head Rivers . . . also in the Yellowstone Park.

Sympathy is extended to M. Whited and family in the recent death of his brother-in-law.

W. H. Pool reports a fine vacation recently spent at the Terrace View resort on Watts Bar Lake. His son liked it so much, that he is staying there to work for the summer . . . W. F. Smith vacationed at home and took care of the little woman who is recovering from a stay in the hospital . . . H. V. Craft vacationed on Norris Lake looking for the big 'uns.

E. E. Cook just stayed around home and went fishing . . . E. C. Gross also spent his vacation fishing and boating on Norris Lake . . . C. R. Eastland is vacationing in the ole hometown and expecting his son in for a visit. . . J. F. Johnson and family will be vacationing for three relaxing weeks with Florida as one source of enjoyment.

Hurry back.

## SNAKES ALIVE!

Conservationists warn against the killing of harmless snakes. Not only do the non-poisonous snakes rid the fields of harmful mice, etc., they take the food away from their venomous cousins. Many species of harmless snakes also are the rattler and copperhead's natural enemy.

## Ralph Levey Patent

Continued from Page 1  
 extensive movement of the plunger which would otherwise crumble under the tremendous forces involved.

No other pressure intensifier is known to exist whereby true isotatic pressure in the 1,000,000 pounds-per-square-inch range may be obtained. Levey's invention is capable of producing a further benefit. For example, in pressing a UO<sub>2</sub> fuel element pellet, it is expected that there would be considerable shrinkage from the original relatively loose powder pack to the compressed product. Levey's intensifier by its unique combination can maintain very high pressure in spite of decreasing volume due to shrinkage.

## Levey Is Tulane Grad

A native of New Orleans, Levey holds a degree in chemical engineering from Tulane University. He is married to the former Joanne Stern, also of New Orleans. They live with their children at 354 East Drive, Oak Ridge.

The customary \$1 accompanied the letter award, addressed to Levey from C. E. Larson, Union Carbide Nuclear Company vice president. In part, the letter stated: "The company appreciates your creative contribution as well as your assistance during the preparation of the patent application."

In addition to his many interests, Levey is currently managing the Eagles, one of Y-12's teams in the Carbide Slow Pitch League.

