



# The ATOMIZER



VOLUME III

PORTSMOUTH AREA AEC PROJECT

MAY 20, 1955

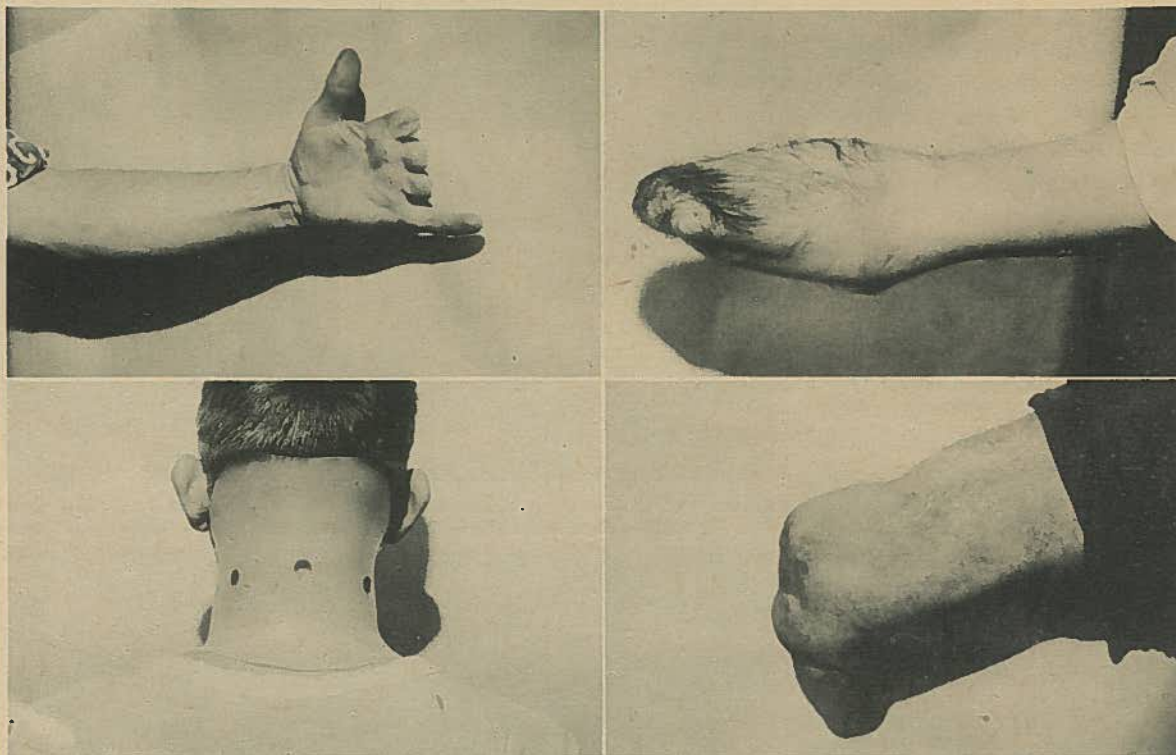
NUMBER 10

## Nuclear Soil Probe Evidence Of Peace Time Use Of Atoms

While the rest of the world is racing in an attempt to compile vast storage piles of nuclear bombs for defense purposes scientists have come up with a device that clearly illustrates a practical and safe use of radioisotopes. The practical use of such a device was demonstrated here on one of AEC's largest atomic centers.

Paul F. Carlton, scientist and engineer with the Corps of Engineers in Cincinnati, recently visited the local plant to make tests on soil to determine its density and moisture content. The interesting part of his visit was that it was not necessary to bring a normally required elaborate laboratory to make his computations. Instead, he was accompanied by one person, Harold Brown, and they arrived in a small station wagon which carried all their needed equipment. The equipment was a "nuclear soil meter" which utilizes the radioactivity of radium and cobalt to give specific density and moisture measurements by computing the average number of rays emitted which are reflected by the soil.

At the present time there are only six of the meters in existence and these were originally developed jointly by the CAA and Cornell University in 1951. In 1953 the Corps took over the project. The meter has now passed its fifth year of experimental testing and is expected to be manufactured commercially in the near future. In the past it has been used to determine the composition of fills on airfields, dams, and highways. Such uses and results have convinced the developers that it is sound and completely accurate. Its manufacture will have tremendous effect upon builders of roads, airfields, dams, buildings, and levies, as it will give accurate determinations in a minimum amount of time and cost. The device consists of a probe one inch in diameter, which is inserted into the ground, thru a stainless steel shaft, and enough wire for a desired depth, an apparatus to detect and convert radioactive emissions to numerical values, and a portable generator (if there is not electricity available). At the tip of the probe is a radium cap and a geiger counter at the other end with a lead shield separating them. In testing for soil density the probe is specifically supplied with radium or Cobalt 60. In testing for moisture it utilizes Radium D Beryllium. When the probe is lowered the geiger tube relays to the surface the rays bouncing back from the soil. Depths at which the probes are usually used vary from three



## "THERE ARE NO SPARE PARTS FOR THE HUMAN MACHINE" PICTURES ILLUSTRATE FACT SAFETY IS 24 HOUR JOB

You undoubtedly have heard that SAFETY is a 24 HOUR JOB. In this issue the carefree person, who practices safety somewhat reluctantly, is offered convincing proof that unless safety is made an around the clock job that he might soon look like any one or all of the pictures above.

**BE SAFE AT WORK:** Unsafe practices at work might make your hand or neck look like those shown in the pictures above. Why wear a hard hat? Why wear a plastic brace for the rest of your life? Sure, the sign said to be careful of your fingers and be sure to put the safety guard on the machine . . . but why do it? All it will cost me is just THREE FINGERS!!! I can learn to eat with my right hand!!! Such gruesome thoughts would never have to enter the mind of the employee who works each minute of every hour with a hulluva lot of respect for this thing called safety. Work safely, for the finger or neck you save could be your own.

**BE SAFE WHEN YOU PLAY:** After the work day is over and you have payed due respect to your own interests and others by observing all the rules of good safety practices, do not forget that accidents are present everywhere you go. Like the old song "Everywhere You Go Sunshine Follows You", so the lurking figure of old man accident is always by your side. An "unloaded" shotgun, and boom—no arm!!! A misplaced cast into a stream, a hook embedded in an eye—no sight!!! Basking in the sun for that beautiful tan, just a minute too long—to the hospital with severe burns!!!

**BE SAFE WHEN YOU ARE AT HOME AND ON THE ROAD:** Three year old Susie doesn't know how to light your Zippo. Why keep it in your pocket or place it out of reach? But somehow she learns to spin the wheel, the fire scares her, she drops it onto a pile of newspapers in the kitchen. FIRE DESTROYS HOME, THREE PERISH, is the headline in the next newspaper. Driving to the grocery is a chore, and to save a little time you decided to cut across town through the rail-yards. Sure, you see the train coming, but you have plenty of time to get out of the way. Your trouser leg catches on a spike and your foot lies across the rail. You are caught!!! A wooden leg, a fair trade for a few minutes saved in getting to the grocery. At least when you walk to the store the next time, you won't go on two legs. Here it is more than five hours since you left a dangerous job, where you observed all the rules of safety without accident, and sure enough, you let up for a moment and the rest of your life will be spent in a wheelchair.

**YES, SAFETY IS TRULY A 24 HOUR JOB . . . THE EVIDENCE PRESENTED SUBSTANTIATES IT. THE PICTURES ARE OF MEN HERE ON THE JOB WHO UNFORTUNATELY KNOW THAT NOW. THE NEXT EDITION OF THE ATOMIZER WILL PRESENT THESE MEN AND TELL THE REAL STORY OF HOW THEIR ACCIDENTS HAPPENED AND HOW THEY COULD HAVE HAD THEIR BODIES INTACT TODAY.**

## Employee Dance Set For May 21 At Chillicothe Elks Club

Recreation Division officials have announced a dance for all project employees and their dependents to be held in Chillicothe at the Elks Hall on May 21 from 9:00 P. M. to 1:00 A. M.

Music will be provided by the always-popular Lou Martin and his orchestra. As is the usual practice, admission will be by presentation of identification badge only.

feet to a known maximum of several hundred feet. The probe is lowered at one foot stages and counts are made over two-minute intervals. Of the total countless millions of electrons which are sent out into the soil, approximately one-tenth of one

(Continued on page 4)



The practical application of radioactive substances is being demonstrated in the above photograph of representatives of the Corps of Engineers in Cincinnati. Harold Brown, left, and engineer-scientist Paul Carlton recently visited the plant site to determine the density and moisture content of the soil at various locations on the job.

### MEET THE MANAGEMENT:

## John Baskett Is PKS Director Of Swingshift Activities On Job Site

The activities of all personnel working on the swingshift at the local project are under the direction of Shift Superintendent John Baskett. Working out of the PKS Operations Unit, he exercises general supervision over all swingshift activities.

John has been employed by the Peter Kiewit Sons' Co. since 1952, following his graduation from college. He was first assigned to the Sheridan, Wyoming, District and while there worked on jobs in Idaho, Montana, and Wyoming. The Western projects consisted of two highway jobs and office engineering work in a strip coal mine. On January 13, 1953, he was transferred to the Portsmouth Area and began work as a civil engineer.



JOHN BASKETT

John actually started his construction experience in 1942 when he was engaged in work on an army base as a carpenter. While a student in college he worked as a carpenter foreman for a construction company out of Great Falls, Montana.

Shortly after World War II began, he joined the armed forces and served as a sergeant in the Combat Engineers with the U. S. Third Army in Europe. Following this military hitch, John then returned to school at Montana State College and received his B. S. Degree in Civil Engineering in 1952.

John and wife, Shirley, are currently residing at the Plateau Trailer Court in Picketon. His favorite hobby is the fascinating art of woodworking. He is an active member of the American Society of Civil Engineers.

# 48

— DAYS SINCE LAST  
LOST TIME ACCIDENT



MEMORIAL DAY — 1955

This day is set aside each year for us to commemorate the sacrifices of those who have fallen in the defense of our Country, and for us to rededicate ourselves to our Country's continued growth.

THE ATOMIZER logo with text: Published fortnightly by Peter Kiewit Sons' Co., its subcontractors and affiliated companies for all employees and their dependents on the Portsmouth Area U. S. Atomic Energy Commission project.

Your part in building this Project is a significant contribution to our Country's strategy of developing our resources for a more abundant peace, while building our industrial might against the possibilities of war.

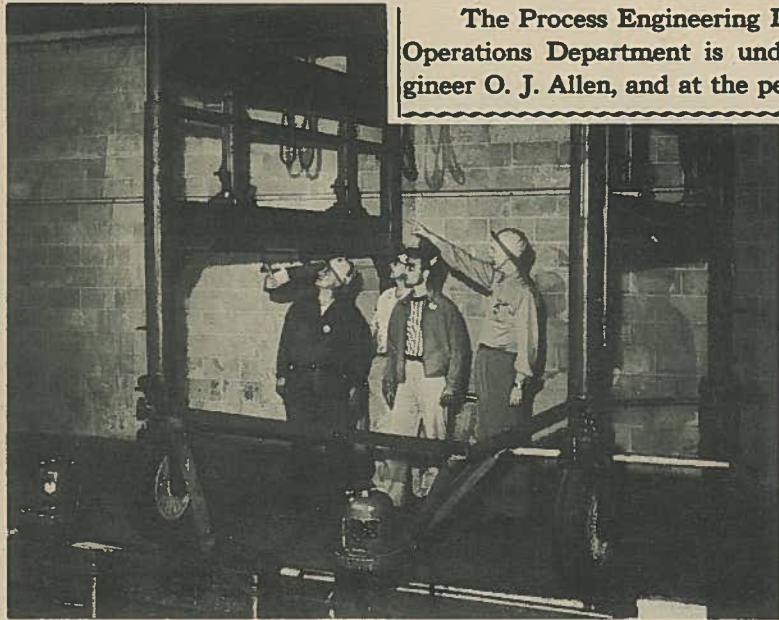
Let each now therefore resolve to advance the progress of this construction, so this industrial plant can take its place with others, producing for the welfare of all.

We hope that when your assignment here is completed, you will leave with the inner satisfaction of knowing that you have done your best in Building this part of a Better America.

The editorial above was submitted by G. Ashburn Koch, Resident Manager for George Koch Sons, Inc. Future editorials will be prepared by various management personnel of all contractors.

Process Engineering Is Final Check On R-N Work Throughout Project; Forces Headed By O. J. Allen

The Process Engineering Division of the Reynolds-Newbery Operations Department is under the direction of Division Engineer O. J. Allen, and at the peak of construction activities more than 150 electrical engineers and Clerks were employed.



Shown with a device for setting switchgear are, left to right: P. C. Gist, Gen'l For.; D. L. Frederick, Engr.; J. H. Monler, Engr.; and E. M. Addist, Ass't Supt.

These men coordinated activities with more than two thousand electricians, foremen and superintendents working in warehousing, fabrication and erection.

The construction engineers are responsible to construction superintendents to insure that proper quantities of materials are secured from warehousing as it may be required by construction progress. They check and interpret drawings and specifications, and make sketches of special conditions where required. Where large quantities of construction material and work are required, such as process power, auxiliary, valves and instrumentation, lighting and communications, the electrical engineer follows the specific construction feature to completion and is fully responsible to insure expedient installation.

As different installations are completed the test scheduling engineers prepare information sheets showing test requirements and, along with feature engineers, schedule the tests to be made. The appropriate test forms are completed by the test engineers and turned over to the feature men who join with test crews to perform the required tests. The actual tests are made by electricians and their foremen. Completed results on test forms are returned to the test scheduling engineers who make final review of the results to insure 100% accuracy. Complete records are maintained on all tests. All test forms are duplicated by the test typing pool and distributed and filed as required. Presently more than 2,000 test record forms have been completed and it is estimated that more than 1/2 million will have been made before the job is completed.

The Electrical Acceptance Test Administrative Section is under the direction of E. M. White, W. R. Finney is responsible for all reproduction and distribution of test records. F. K. Grunbach heads the electrical engineers in X-330, J. G. Phillips is in charge in 326, A. J. Radinski in 333 and J. Carter heads activity in X-530.

The tremendous responsibility of the construction and test electrical engineers can readily be seen when it is realized that they are responsible for checking all electrical erection for conformance with A-E specifications and then final testing prior to the release of the equipment to the operating contractor. The process engineering group is the final of those covered in the R-N Operations Department under the direction of "Bert" Radford. The next issue of THE ATOMIZER will feature all supervisory personnel of the Operations set-up.



R-N Engineers & Clerks in X-330 Building are shown above. Front row: J. V. Beatty, F. D. Keeling, R. R. Perry, W. D. Wylie, and D. M. Holland. Back row: J. S. Barclay, A. E. Hill, H. VanBurgel, and F. K. Gruenbach.



R-N Engineering & Clerks in X-326 Building are shown above. Front row: J. G. Phillips, R. Bradshaw, J. E. McCaslin, W. G. Andrew, C. J. Scott, and F. R. Zemke. Middle row: E. M. Miodonski, C. L. Keeman, F. R. Smith, J. Bonner, W. W. Cook, and B. E. Johnson. Back row: O. E. Dusenbery, J. Hisle, Jr., T. M. King, C. B. Blas, G. O. Smith, and V. W. Lockhart.



R-N Engineers & Clerks in X-333 Building are shown above. Front row: A. J. Radinski, J. A. Maltby, L. L. Scates, D. L. Frederick, G. E. Kelley, R. L. Lewis, O. G. Sowards, V. R. Jarrell, O. G. Conloy, and R. O. Diggs. Back row: G. Steeler, C. R. Pease, Jim Monler, E. F. Pierce, H. Barker, C. L. Rawson, J. J. Kemp, D. J. Fitzpatrick, C. H. Sealwater, and R. C. Small.

G. ASHBURN KOCH COMMENTS ON KOCH FIRM'S AWARD OF MERIT

"The award itself is only a framed piece of paper, now hanging in our office, as the true reward for your safe performance is found in your home and in your pocketbook. If you had performed your 2,010,533 manhours of work with only average caution, 24 of you would have been injured (according to the average for Ohio Sheetmetal Industry). As it was, only two were injured in more than two million manhours. Consequently, 22 of you received \$41,100 that you would have lost if it had not been for your interest in working safely. Nineteen-fifty-five can save you even more money and much grief—let us resolve that the next lost time accident will not be yours."

EMPLOYEES URGED TO WATCH BULLETINS ON ROAD REPAIRS

All employees are urged to observe notices on bulletin boards concerning the closing and opening of project roads. Due to the paving now being done it will be necessary to re-route traffic all summer long. All persons are asked to stay off roads being graded and paved. Your cooperation is appreciated.



R-N Test Acceptance Administration Section in the Adm. Bldg. are shown above. Front row: H. E. Underwood, R. R. Pitre, P. M. Long, V. H. Burnett, and E. M. White. Back row: R. D. Franklin, J. D. Shelton, T. S. Walls, W. R. Roop, H. C. Davis, and J. N. Plymale.



Engineers in X-530 Switchyard: J. B. Carter, M. L. Tyndally, D. G. Bain and Communications men, R. W. Klehn, C. C. Faust, J. E. Gilmore, and E. R. Kovacs.



Test Record Duplication Group in the Adm. Bldg. are shown above. Seated: Dorothy Palmer, Patricia Smith, Doris Shuler, and Lois Alley. Back row: W. R. Finney, Carolyn Patton, Lorraine Wayne, and Fred Neville.

TEAMSTER WRITES SAFETY POEM

"I never had an accident," I told my little wife. "I never had an accident in all my whole darn life. Me be careful? Why, honey, gee, Nothing ever happens to me." I kissed her and the kids and off I went. Ha! As if I could have an accident. The traffic was heavy and I was late, And for that darn slow fool I couldn't wait.

I pushed down on the pedal, "faster, faster." A semi-loaded with steel—head on—disaster. And from that mangled, smouldering heap A voice cut through like a knife, "Honey, I never had an accident in my whole darn life." Now this fellow, who was no fool, Was a typical American with a car as a tool. He forgot one thing while having fun. With accidents, friend, it just takes one.



**BOWLING LEAGUES**

WAVERLY WOMEN'S LEAGUE Final Standings			
TEAM	WON	LOST	PTS.
Pleasant Acres	56½	30½	77½
Little Beaver	51½	35½	71½
Wakefield	50	37	65
Flannery's Grocery	45	42	62
Ranchers	44½	42½	61½
Piketon Park	45	42	60
Stewburners	42	45	59
Hunters	43½	43½	54½
N & M	38½	48½	49
Beril's	36	51	46
Atomic Store	36	51	45½
Way's Foods	33½	53½	44½

CIMOTA WOMEN'S LEAGUE Final Standings			
TEAM	WON	LOST	PTS.
Sleeper Weepers	44½	36½	61½
Gutter Queens	45½	35½	61½
L. O. L.	39½	41½	52½
Alley Cats	32½	48½	40½

WAVERLY MEN'S LEAGUE			
TEAM	WON	LOST	PTS.
Cooper's Store	61	23	83
Reynolds-Newbery	54½	29½	76
Dodgers	55	29	73½
Sheet Metal	40	44	56
Schmidts	37	47	49
Strike Outs	36	45	46
Giants	34	50	44
Moore's	15½	65½	16½

ATOMIC MIXED LEAGUE			
TEAM	WON	LOST	PTS.
Thomas-Hornberg	4	2	5
Senti-Roda	3	3	5
Zint-Hagan	3	3	4
Poling-Sollott	3	3	4
Hutchings-Barber	3	3	4
Carlson-Sturdevant	2	4	2

WAVERLY MIXED LEAGUE			
TEAM	WON	LOST	PTS.
Weiss-Frey	17	7	22
Rutherford-Rutherford	14	10	20
Briscoe-Sparks	14	10	19
Brown-Boshers	14	10	19
Albert-Shoemaker	13	11	17
Pyles-Shrader	10	14	14
Overman-Overman	6	18	7

**FIRST OF 5 WEEKEND GOLF TOURNEYS TO BEGIN SATURDAY, MAY 21**

**Calloway System To Be Used In Inaugural Event; All Employees Eligible; Must Turn In Score Cards**

All employees who are currently touring the golf links of their choice throughout the Atomic Area are invited to participate in a series of weekend golf tourneys being sponsored by the Recreation Division. Recreation Chief, L. F. Poling, this week announced that beginning the weekend of May 21 and ending May 30, the first of five special tourneys will begin.

Due to the scattering of many employees throughout the area it has been necessary to utilize the Calloway Handicap system. The system is fully explained in the chart below, Special cash and merchandise prizes will be awarded to the winners.

As tourney play progresses other types of competitive play will be introduced but the first to be used will pit each golfer against par on the course of his choice. Complete rules are printed below.

**PROJECT GOLF TOURNEY NUMBER 1**  
May 21, 22, 28, 29, and 30  
1. Play 18 holes on any course and submit attested score cards to the

- recreation office.
  - 2. Cards will be honored for dates May 21, 22, 28, 29, and 30 only.
  - 3. All cards must be submitted no later than 12 noon, Wednesday, June 1, 1955.
  - 4. The Calloway Handicap system will be used in computing each player's net score.
  - 5. Golfers must submit all cards for each 18 holes played. The most favorable card, using the handicap, will be used in determining low net.
  - 6. Prizes will be awarded for 1st, 2nd, and 3rd place in the low net. One prize will be awarded for the golfer shooting low gross or without handicap. A player may win only one prize.
- Similar tourneys will be conducted on the two weekends falling on June 4-12, June 18-26, July 2-10, and July 16-24. A grand prize will be awarded to the golfer who plays in all five tourneys with the lowest net score. In order to compete for the grand prize a player must play in all five events.

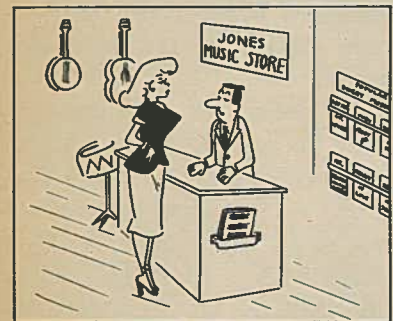


**CHAMPIONS OF WAVERLY MENS LEAGUE**

The respective averages of the men in the pictures above, left to right, back row first, are 177-177-178-165-169. A scratch total of 866 is what the opponents of Cooper's Store saw in 84 bowling matches, during the regular season just completed by the Waverly Men's League. Pictured in the order of their averages are Spangler, Clark, Ritchie, Cowie, and Neubauer. W. D. Clark rolled the high single game for the season with a 258 and his team won the high three game series with a total of 2,796 pins. Cooper's won the league title with a total of 83 points and the Dodgers and R-N were behind with 73½ and 73 points.

**Swimming Classes To Be Offered By Project Recreation Department**

Plans are now underway for the organization of the Recreation Division's Second Annual Learn-to-Swim Program. Last summer more than 500 youngsters and adults were taught to swim in the classes conducted at Lake White. A competent instructor has been obtained and a beginning date will be announced in the next edition of the paper. Watch for the entry blank as they will be needed to enroll.



**"YES, WE DO HAVE ACCORDIANS, MISS GREEN, - BUT - ARE YOU SURE?"**

**Gutter Queens Capture Cimota Bowling Crown**

Another project bowling league has finished in hotly contested fashion as the Gutter Queens and Sleeper Weepers of the Chillicothe Cimota Women's League ended regular season play all tied up for the number one spot. In order to determine the recipients of the league championship trophies the gals had a roll-off.

The Gutter Queens emerged victorious by smashing the "Weeping Weepers" 1369 to 1274. Nine Ackley led the winners with a 512-174 and Isabelle Hilliard poster 435-168 for the losers.

**Two "BIG ONES" Reported In Area Fishing Contest**

Competition in the Fishing Contest is picking up as during the last two weeks certified catches have included a 34 inch muskie and a 16 inch bass.

Area fishermen are reminded that the contest will end on June 8 and that cash awards are available for the winners.



Employees in Chillicothe who have aspirations of becoming another "Ben" or "Sam" are shown above during one of the Monday night golf schools sponsored by the Recreation Division. Jack Feck, Assistant Chief, has been instructor for the program which has included top professional instructional films.

**New Cinerama Showing In Cincinnati On June 23**

The Management of "This Is Cinerama", currently showing in Cincinnati at the Capitol Theatre announced that this all time record breaking attraction will complete its engagement on June 21 to make way for the opening of the second Cinerama production "Cinerama Holiday" on Thursday, June 23.

To those not familiar with Cinerama operation, there are only fourteen theatres in the United States which are equipped to show the wonderous attraction on the largest screens in the world. These theatres are three hundred or more miles apart. The closest one in this area is the Capitol in Cincinnati. Those wishing to see it can arrange for tickets for "This Is Cinerama" at the Recreation Division, Extension 3442.

WHEN TED WILLIAMS got in the Boston batting order in May of 1954, he was "hampered" by a metal pin inserted in his broken shoulder. In a double header in Detroit he went to bat nine times and cracked two home runs out of eight hits—"It hurts like hell," said Ted. Wise-cracking Casey Stengel remarked after reading about the feat. "When they take that pin out, I want it. I wanta stick it in a couple of my guys."

**THE CALLOWAY HANDICAP CHART**

If Gross Score Is	Net Score Is That After Subtracting:
72 or under	scratch score
73-75	— ½ worst hole
76-80	— worst hole
81-85	— worst hole plus ½ next worst hole
86-90	— 2 worst holes
91-95	— 2 worst holes plus ½ next worst hole
96-100	— 3 worst holes
101-105	— 3 worst holes plus ½ next worst hole
106-110	— 4 worst holes
111-115	— 4 worst holes plus ½ next worst hole
116-120	— 5 worst holes
121-125	— 5 worst holes plus ½ next worst hole
126-130	— 6 worst holes (LIMIT)

Note: The worst hole shall be the player's highest score regardless of par for hole. One half strokes shall count as whole strokes.



An unusual way to honor bowling champions was conceived at Waverly recently when more than 40 members of the league gathered at the Sugar & Spice Restaurant for a noon day luncheon which was broadcast by WPKO in Waverly. Each team captain was given the opportunity to say a few words and MC Robert Courdray kept the questions popping to, of all things, keep the women talking. Luther Poling, Chief of the Recreation Division, presented trophies and cash prizes to the winning teams. He is shown above, on the air, presenting a trophy to Mary Zint of the Pleasant Acres team which copped both the season league title and the sweepstakes tourney.





The Operating Engineers employed by George Koch Sons, Inc., shown above have compiled a remarkable safety record during their more than two years on the project. Constant observance of good safety rules has brought about splendid work performance without one lost time accident. Pictured, left to right, are: John O'Curran, Bernard Betz, D. Taylor, C. Bloomfield, H. I. Brown, Wm. Cool, W. Knittel, Joe Harr, K. McCoy, D. Sydenstricker, G. F. Dickens, E. A. Ginery, R. Lambert, and L. H. Anderson, Head Master Mechanic.

## Koch Crew Of Operating Engineers Compile Outstanding Safety Record

During the erection of facilities for this Gaseous Diffusion Plant for the Atomic Energy Commission at Portsmouth, Ohio, the Operating Engineers employed by George Koch Sons, Inc. have operated machinery to speed the receipt, temporary storage and placement of large duct, panels and fans. Movements were made involving over 100,000,000 pounds.

This work was performed by 23 craftsmen under the direct supervision of L. H. Anderson, Master Mechanic. "Andy's" 30 years of experience has enabled him to plan this job for efficiency.

The men used cranes and Hysters in unloading and moving the duct and insulated panels. A novel development was made for positioning duct for erection. The duct was pre-assembled in long sections, hoisted by a Hyster, and supported during final installation by "duct stands." After raising the duct an average of 15 feet into position, the Hyster placed the duct on the stands and was able to leave to obtain more duct to install. Full utilization of equipment was obtained in this way.

The Operating Engineers serviced about 1,000 sheet metal journeymen and in good labor harmony. Together, they made a record of efficient and safe installation of bulky components of a complicated ventilating system involving minimum clearances from pipe and equipment.

Through good job planning on the part of craft supervision and careful attention to safe working practices, the workmen had two periods of over one million man-hours of work without a lost time accident. The use of

machines for hoisting and moving material helped to keep this a safe job.

## EMPLOYEES SET NEW MARK WITH 237 PINTS OF BLOOD DONATIONS

On April 19 and 20, 265 project employees smashed all existing previous records for the donation of blood by giving a total of 237 pints to the Huntington Regional Blood Mobile Unit. Dr. Benjamin H. Adams, Director for the Region, praised the conscientious efforts of all employees and extended the appreciation of the unit for the splendid cooperation received during the two-day visit at the local plant hospital.

In 1953, project employees gave a total of 225 pints; in 1954, 209; and with the new record of 237 pints the three year total rises to 671 pints or the equivalent of 2½ barrels of the life saving fluid.

Mr. F. S. Coyne, Director of the Employee Relations Department, served as coordinator for the two-day visit at the project. He was capably assisted by Ed Colbert.

Of the 237 persons who gave blood, 53 of the 114 on the first day were first-time donors, and 76 of the 123 on the second day were first-time donors.

**DIGGING WELLS** is about the only business where you don't have to begin at the bottom.

## CLASSIFIEDS

The following classified ads are free to any Portsmouth Area project employee but must be confined to items pertaining to transportation and lost and found articles. Phone 3442 or 2887

**WANTED**—Riders from Iron-ton to Pipe Fab Shop on 8:00 to 4:30 shift. Contact James C. Ferguson, Ext. 3176 or Iron-ton 4609.

**WANTED** — Rider from New Boston and area through Eden Park and Rubyville to X-333 Building. Call Paul Mosley, 852-L, New Boston.

**WANTED** — Riders from Mount Joy area via Route 348 through Lucasville to Adm. Bldg. or X-326 Building. Contact R. G. Vogel, Ext. 3746.

**WANTED**—Riders from Jackson to jobsite on 8:00 to 4:30 shift. Contact J. T. Reynolds, Ext. 3842 or Jackson 2046M.

**WANTED**—Riders from Portsmouth to Adm. or Personnel Bldg. on 8:00 to 4:30 shift. Call Don Burke, Ext. 3391.

**WANTED**—Riders or to join car pool from Portsmouth on 8:00 to 4:30 shift. Contact J. B. Hess, Ext. 3206.

**LOST**—Eye glasses, bi-focals, in brown case in X-705 area. Finder please leave message at Ext. 3601 for Allen Wheatley.

**WANTED**—Riders from Portsmouth to Adm. Bldg. on 8:00 to 4:30 shift. Contact Ed Truglio, Ext. 3215.

### FOR WHOM THE BELL TOLLS

On the bell tower of the church of Small town is a sign which reads: "We call your attention to the fact that the works of our tower clock are in perfect condition but that the clock shows the wrong time and has struck incorrectly since 1953. But you can easily figure out the right time, for at midnight, the hands of the clock point to 16 minutes past eleven and the bell strikes 5 times."

I passed the church at 8:49 by my watch. What time did the clock show and when would the bell next strike and what hour? Answer—next edition.



A switch is pulled—photograph of a photographer!!! Don Landstrom is shown above during his visit at the Oak Ridge Institute.

## Local Photographic Chief Takes Part In History Making Event At Oak Ridge

Don Landstrom, Chief of the PKS Photographic Section, recently took part in a highly significant and history-making event at the Oak Ridge National Laboratories in Oak Ridge, Tennessee.

As a part of the President's "Atoms for Peace" program, Oak Ridge Institute of Nuclear Studies is presently conducting a training school for 32 scientists and technicians from 21 different foreign nations. The training school will provide the students with technical information concerning the latest use of radioisotopes. Because the students were required to be in many different locations on a difficult time schedule, it was necessary for Landstrom to assist in the photography which will be used for release through the U. S. Information Agency in a variety of overseas publications.

A highlight of the day long tour which covered many different informational items, was the observance of a nuclear reactor which was immersed in 20 feet of water in a so-called "swimming pool." The reactor is a prototype of the one to be constructed at the Laboratory and disassembled and sent to Geneva as the U. S. contribution to the "Atoms for Peace" program. Don took several photographs of the students visiting the pool, and in addition he also made several documentary photographs of facilities at the Lab.

The photographer has been at the local plant since May 1, 1953. He and his wife, Virginia, and boys, Karl 17, Grant 9, and Cody 3, reside in Western Hills Apartments in Chillicothe. Prior to coming here Don worked with a commercial photographer in Tacoma, Washington. He is originally from Lebanon, Oregon.

## NUCLEAR SOIL PROBE

(Continued from page 1)

per cent actually come back to be picked up by the counter. From the variances in this amount the machine permits calculation of needed information. In testing for density the radium emits gamma rays. The percentage of these rays coming back to the geiger counter are relayed to the scaling unit which counts those received in a two-minute period. This count received is then compared to a standard which gives the relative density of the soil being tested.

In testing for moisture content, the probe contains Radium, D Beryllium which emits neutrons. As the geiger counter will not record neutrons the probe is lined with a silver foil. When the neutrons hit the silver they are converted to beta rays which register on the geiger counter and then are posted on the scaling machine. The relative count compared to an established standard indicates the per cent of moisture in the soil. Present plans are being formed to build a machine which will eliminate the use of a geiger counter and will compute all the needed information within a matter of minutes. The cost of the machine will be roughly from \$750 to \$1,000.

Carlton stated builders would be able to save more than two-thirds of the cost usually spent on a construction project for soil testing, besides getting the information faster. To scientists and engineers the meter is a research instrument which will enable them to make experiments in design improvements they've never been able to make before. In a matter of minutes a builder will know the strength of soil, how much it will hold up, how big the foundations must be or how strong, and how expensive the project will be.



The 3,000th person to complete the project's supervisory training program was W. A. Pettay, foreman for the Grinnell Corporation. On hand Thursday, May 12, to present Pettay with his supervisory training card were Bill Shellada, left, Pettay, Bill Kistler, GC's Gen'l Supt., and Al Hull.



Constantly trying to find ways by which our safety record can be improved, Operations Manager R. L. Senior has come up with an idea, when combined with the thoughts of others, has proven to be a highly entertaining routine for employees coming on and off the jobsite. Shown above is a tape recorder being started by Guard Orville Crabtree which will send musical compositions all over the area surrounding the main entrance gate. Guard Jim Allen is shown checking the badge of employees coming to work. Last week end employees left the job on Friday to the tune of "Sentimental Journey" and a voice citing that it was payday and that the day had been completed without an accident. Appropriate tunes and safety slogans are being combined and tape recorded for future use. Employees with suggestions may contact the Safety Department.