

RESOLUTIONS FOR 1950

1- SHOVEL SNOW

~~2- CLEAN BASEMENT~~

3- CARRY OUT ASHES

~~4- HANG UP CLOTHES~~

5- REMEMBER ANNIVERSARY

~~6- DON'T LOSE TEMPER~~

7- FEED CAT EVERY DAY

~~8- QUIT SMOKING~~

9- HELP WIFE WITH DISHES

10- DON'T ROB PIGGY BANK



The Largest Soybean Miller in the Country Use Dustubes



Someone once said: "All our economic ills will be solved if we just plant enough soy beans". And the many uses to which soy beans are put make this statement more true every day. At the Soya Products Div. of The Glidden Co., Chicago — the largest soybean processing plant in the country — four AWECO Dustube collectors are installed.

Three of the collectors are ventilating soybean flour milling operations. The new No. 4-115 KD Continuous Automatic Duster was recently installed in their bean processing building. This collector ventilates all of the dust-carrying operations in the sifting, cleaning, cracking, tempering and flaking of soybeans. Sifting and cleaning are the principal dust creating operations. This is primarily a nuisance dust, but

the material collected will normally be used as stock feed.

Glidden — a big name in paint, varnish, lead, chemicals and foods (Dunkin's margarine, etc.) — is the only plant in the country manufacturing Alpha protein. This material is used as a past- filler. Glidden also produces soybean flour, meal, lecithin (used in paint, cosmetics, and chocolate coatings), etc.

The dust collectors help make our lives easier for soybean meal, flour, oil or by-products is used in many of our everyday necessities. For instance, the margarine you spread on your soybean flour bread, the chocolate coating on the candy bar, the cosmetics your wife uses, the paint on your house, and many more probably were produced by Dustube-ventilated processes.

3 Little Words

I bragged; I put on a show; I sounded off
And I got caught — red faced!
It was apparently a simple question!
I was sure I knew the answer; but
I wish I had been wise enough to say:
"I don't know."

I insisted; I quoted statistics;
I made an ass of myself. Jeopardily;
And had the facts thrown in my face;
We parled on very cold terms.
I wish I had been smart enough to say:
"I was wrong."

It is now clear that I was being selfish,
And maybe a little rude besides;
There was an unnecessary sting in my words.

But it would have been all right even so;
If I had been kind enough to say,
"I am sorry."

My good friend — my wife — my son
— my daughter —

Might have been less hurt, less lonesome;

It might have been a brighter, better day;

It might have been a great deal different.

If I had only remembered to say,
"I love you."

Thurman E. Rice, M. E.

It Cost \$50,000 But it Makes YOUR Job Easier And Our Equipment Better

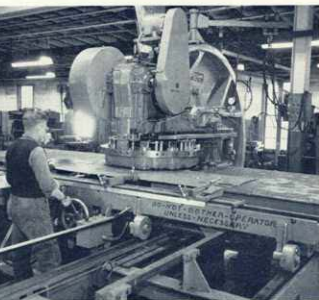
This is the new Wiedemann press that makes our jobs easier. It also puts the Company in a position to handle a greater volume of business, adding to the security of our jobs. The press permits us to build a piece of equipment in less time, thereby enabling us to offer our customers earlier delivery dates.

This machine greatly minimizes the amount of layout required. Thus making our equipment less costly to fabricate. Because of this, our prices can be more competitive with other builders of similar equipment. Early delivery and price are often the deciding factors in the placing of an order for AWECO equipment.

The Wiedemann press has a capacity of 80 tons. Therefore, a 2 1/2" dia. hole can be punched in a 1/2" plate, or a 3" dia. hole in a 3/4" plate or a 6 1/2" hole in a 1/4" or thinner plate.

The new press has a turret with 32 different punching stations of various diameters and different shapes. This turret is electrically rotated, bringing into position any desired station. Cecil Rhee, the operator, first places a sheet on the table of the machine, and clamps it securely. He next reads from a prepared chart the progressive operations required to punch all holes, cutouts, and center punch marks. One stationary ruler enables the operator to locate, by turning a hand wheel, any cross position; another ruler, any in and out position in a similar way. As each position is found, the press is engaged by stepping on a foot pedal.

The equipment, with the tooling, cost \$50,000. Another example of what it costs to equip our manufacturing plant.





Robert T. Pring

Technical Director Dust Control Div.



J. Robert Bunch

New Salesman



ROBERT T. PRING was appointed Technical Director of the Dust and Fume Control Division, effective January 1.

After obtaining a Bachelor of Science degree in Chemical Engineering from Tufts College in 1933, Mr. Pring completed graduate work in industrial hygiene at the Harvard School of Public Health in 1935. Following two years as an engineer with the Employers Group, Boston, he entered the employ of the Utah Copper Co. in 1936 as Industrial Hygienist.

In 1940 he became Chief Chemist of Utah Copper, but continued to serve in a consulting capacity on all matters relating to industrial hygiene. When Utah Copper became a division of Kennecott Copper Corp., Mr. Pring remained with the Company and became Director of the Industrial Hygiene Department of Kennecott Copper in 1947. He resigned this latter position in order to assume his new duties with AWECO.

While with Kennecott Copper, Mr. Pring served as a consultant to other companies and lectured on industrial hygiene at the University of Utah Medical School.

He has published a number of articles dealing with his work, and these include: "Dust Control in Large-Scale Ore Concentrating Operations", *ATIME* Technical Publication No. 1235, 1948, and "Design of Exhaust Ventilation for Solid Materials Handling — Fundamental Considerations", *Industrial and Engineering Chemistry*, November 1949.

Mr. and Mrs. Pring are looking for a home for themselves and their three children — a girl 7 and two boys, one 4 years, the other 16 months old.

They are finding the Indiana landscape with its trees a welcome change from the Utah desert to which they have been accustomed. In the summer

they hope to play golf on one of the nearby courses.

An unusual sidelight — Kennecott Copper Co. does not employ women, therefore this will be the first time in 11 years that Mr. Pring has worked with women in his office!

Mr. Pring is a member of the American Public Health Association, the American Chemical Society, the American Industrial Hygiene Association, and is also serving on two committees of the American Standards Assn. dealing with exhaust ventilation and industrial hygiene.

American Parade

Published for Employees of
American Wheelabrator and Equipment Corp.
Mishawaka, Indiana

Vol. 9, No. 1 Jan.-Feb., 1950

MARJORIE E. FRAZEE
Editor

On the Cover

We turn over a new leaf and make resolutions — all for the New Year — and then we try to keep the resolutions.

ERNEST WALGAMUTH — a steel assembler on the second shift for the past seven years — shows how it works. The resolutions are made (obviously with help) and kept also obviously with help.

J. ROBERT BUNCH was appointed to the sales staff, effective November 15, to assist J. D. Alexander in the Cleveland area.

Bob is another of the salesmen added to our staff in order that the sales territories can be more adequately covered, thus more business will be forthcoming.

This latest salesman is well known to those in the Mishawaka plant for he worked in the factory from 1936 to 1945, mostly in the machine shop. For the past 4 years he has been a member of the service staff supervising the erection and servicing of AWECO equipment in the Cleveland area. Now well he has performed his duties is indicated by the following letter received from George Dublin, Plant Manager of Keystone Brass Works, Erie, Pa.

"We would like to again commend very highly the service which your Mr. Bunch has given us. We are very happy to say that the American Wheelabrator not only makes a very good product, but has the product serviced by men of very high caliber such as your Mr. Bunch."

Bob always took an active part in Union and employee affairs. During the war, when AWECO was awarded the Army-Navy "E", Bob accepted the pins on behalf of all employees. He helped organize and actively served the Credit Union.

Indiana University and Stetson University, Deland, Florida, combined to give him his formal education.

Mr. and Mrs. Bunch have two red-haired children, Diane age 11 and Tommy age 7, and one wire fox terrier. He's a member of the Kiwanis Club, active on the Boy's and Girls Committees, a director of the Girl Scout Council, and sings in the Congregational Church choir.

Off the Editor's Cuff

Effective January 1, 1950, a 50% increase in payroll deductions for Social Security was noted by all AWECO employees. The rate of contribution for both employer and employee is now 11½%. The deduction is made from the first \$3,000 paid in the calendar year.

The new 14½% rate will be in force during 1950 and 1951, and on January 1, 1952, the rate will go up to 2%.

And speaking of deductions if your dependents have increased or decreased in the past year, remember this will change the withholding tax on your income. Stop in the Personnel Department and fill out a new Form W-4, if your dependents have changed.

Crushed walnut shells are used in a No. 1A Wheelabrator Multi-Table at Buick Motor Div., Flint, Michigan to deburr aluminum parts for the Buick Dynaflo drive. Depending upon the size of the pieces, from 420 to 840 parts are Wheelabrated hourly.

Caterpillar equipment, built-to-take-it on the toughest assignments, incorporates scores of Wheelabrated castings and forgings such as manifolds, engine heads, gears, brackets, housings, etc. A total of seven Wheelabrators are used in their Peoria plant for diverse and difficult applications.

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"All I know is that it was wonderful" says an AWECO worker who calculated insurance benefits following an operation. "When the insurance plan was first offered, I didn't take advantage of it, but decided later to participate. Of course I didn't realize it would amount to so much for it paid about half my doctor and hospital bills. Without the insurance benefits I don't know what I would have done — I would never get out of debt!"

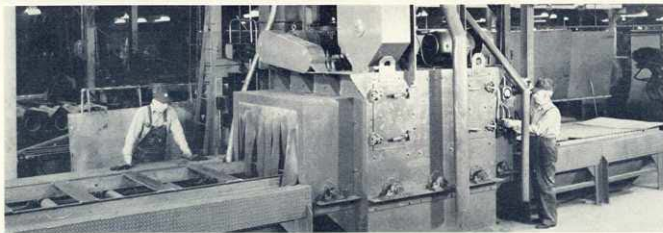
"It only costs me 40¢ a week — and the Company pays an equal amount for me."



Keep away from the would-be surgeon. See the nurse, without any urging.

NATIONAL SAFETY COUNCIL

For AWECO salesmen, all roads will lead to Mishawaka for the week of February 20. The sales school will be held then. This meeting — which is an annual event — will feature round-table discussions and talks by members of the production, advertising, engineering and sales departments. The entire meeting is designed to discuss and present new ways and means of obtaining a greater volume of business in 1950.



Welding Spatter

Weaver Mfg. Co., Springfield, Ill. manufacture a complete line of automotive service equipment. Their line includes the Weaver Twin Post Lift, wheel alignment and balancing machines, brake testers, hydraulic jacks and related garage equipment as well as safety inspection devices.

Practically every welded assembly fabricated in the

Removed by Wheelabrating at Weaver Mfg. Co.

Weaver plant is put through their Special Wheelabrator Cabinet pictured above. This process removes all welding spatter and flux — at a 35% saving over the former method — and provides a uniform matte surface for painting. Weaver installed the Special Wheelabrator to speed up cleaning and found an added dividend in the matte finish.

And the Goblins Will

Entertainment and amusement in prowling through an old grave yard? Lena Turner says it's there and she looks for it. Lena began her cemetery searching when she visited St. Johns Cemetery in Richmond, Virginia, about 10 years ago. There she found a wealth of old, interesting, and amusing epitaphs. She wrote them down. Thereafter, every time Lena passed an old grave yard she wanted to stop and explore the tomb stones for new epitaphs to add to the collection. Now she has at least a hundred choice memorial inscriptions from old tombs and monuments.

Here are a few of her favorites with the original spelling, capitalizations, etc.:

This one from St. Johns Cemetery

This tablet is dedicated to mark the site, where lies the mortal remains of
George Wythe
Born 1726 — Died 1806
Jurist and Statesman
Teacher of Randolph
Jefferson and Marshall
First Professor of law in the
United States
First Virginia signer of the
Declaration of Independence

In Henry County, Illinois, is an inscription, written by a bored wife for her husband's monument:

There ever bring thee back —
therefore I weep

Get You



In a Kentucky Cemetery

W. B. Whitaker
Died Dec. 16, 1892
Married by his wife
June 1812

This inscription is on the elevated grave in St. John's Cemetery:

Here lies the Body of Robert Rose Rector of Albemarle Parish
His extraordinary Genius and Capacity in all the polite and useful Arts of life the equal of by a law were yet exceeded by the great Goodness of his Heart — Humanity, Benevolence and Charity ran through the whole course of his life and were united with uncommon penetration and judgment upon their proper objects without noise or ostentation. In his friendship he was warm and steady, in his Manners gentle and easy, in his conversation entertaining and instructive. With the most tender piety he discharged all the domestic duties of Husband, Father, Son and Brother. In short he was a friend to the whole human Race and upon that principle a strenuous Asserter and Defender of Liberty.
He died the 20th day of June 1751 in the 47th year of his age.



And this one from Plymouth, Mass.:
To the memory of amiable Mrs. Jane Doggett consort of Mr. Seth Doggett who died May 31, 1794 in the 26th year of her age. Also an infant daughter by her side.
Come view this scene 'till you with
surprise
Behold the liveliest form in nature dies and
As soon she flew inebd blossoming falls and
guy
At evening an extended corpse she lay.

Others who know of Lena's hobby send her the unique epitaphs they come across in their travels, and she exchanges with other collectors.

Lena, known as "Miss Turner" to those in the machine shop, where she presides over the production office, has another outside interest. She acts in original humorous skits that are given before organizations and broadcast over various radio stations.



AWECO Exhibited at the 22d Exposition of Chemical Industries, held November 28 to December 2 in Grand Central Palace, New York City. Here is a view of our booth with Frank Federly, Charles Ludwig, and Bill Blank ready to talk with some of the 50,000 people who attended the show. Other AWECO people at the show included: R. E. Schallert, F. E. Uhl, R. J. Fitzgerald, L. B. Nelson, J. K. Davidson, W. S. Schaefer, L. L. Andrus, W. W. Criswell, David Logan, K. E. Blessing, and C. L. Gerhart.



The AWECO Assn. Board of Directors for 1960: Standing in the usual order—Luther Camp (steel shop), Rex Reihl (steel shop), Earl Winalow (office), Ted Cupp (steel shop), Ward Correll (engineering), Vice President Melvin Hostetter (demonstration), Sealed; Clifford Newland (shipping), Edward Nelson (maintenance), Anna Marie Biesbroeck (office), and President Kenny Sill (machine shop). Marie Menzie has replaced Anna Marie. She was elected Secretary. The permanent Treasurer is Glarold Whitmer.

Bits About Us



CIGAR PASSER-OUTER REASON

Edward Ernst
steel shop

Virgil Fojan
research

A. D. Sfilimour
salesman

Don Karnes
machine shop

J. R. Pedrally
service engineer

Give Dickerson
stockroom

A. Nicolini
demonstration

John Salsusky
foundry

Phil Carlson
advertising

Albert Vandenberg
cost accounting

Elmer Welke
billing

Louis Marie Baker
stock

Charles Anthony
born Dec. 12

Norman Francis
born Dec. 8

Wern Sept. 11

Ken Eugene
born Nov. 4

James Riehard Jr.
born Oct. 31

Gary Paul
born Nov. 29

wedding
November 21 to

Hilda Wordinger

wedding
December 30 to

Blanche Rittel

diamond ring from
Don Marsh

Joseph Anthony
January 12



You probably have seen and talked with **WALTER JASIEWICZ** of the industrial engineering department. But do you know these things about him? Well:

1. Elected teacher on a Mishawaka High School team.
2. Studied chemical engineering in Aberdeen, S. D. on a football scholarship.
3. Was a Captain in the Army Engineers during World War II, and saw service in the European Theatre.
4. Previous to coming to AWECO 2 years ago, was employed as a control chemist at Bell Bond.
5. Is married and has two children.
6. Spends his spare time remodeling his home on Laurel St. in Milwaukee.
7. Belongs to 9 or 10 organizations.

MACHINE SHOP NEWS

Reported by Lena Turner.

Walter Healy has joined the ranks of those owning farms. Walt's farm is on Edison road, close to the airport. He has chickens and fruit. The rider made from the apples on his trees was a good one. He is considering purchasing a new cider press.

Another chicken farmer is **Herbman Mitchell**. He sold a number of them to his fellow-employees around the holidays.

Mrs. Joe Acsal took a couple of days off during the holidays to make Kefee — a rich Hungarian treat. She says it takes two days to make them. **Lena Turner** and **Marjorie Frazee** were the lucky people who received samples of Mrs. Acsal's baking.

SHIPPING NEWS

Reported by Margaret Daugherty

Harry Holness was recently elected treasurer of the local chapter of the Knightstown Children's Home Alumni Assn. He is also treasurer of the national association.

Irving Fries has been ill since Thanksgiving, and **George Graham** is recovering from an operation. Our best wishes to them.

George Tharp's son **Richard** is majoring in Criminology at San Jose State College. Wonder if that stems from the time George spent at Washington State Prison? George installed a White-Walnut Special Cabinet and Dubble Dust Collector in April of 1948. The machine is used to blast the aluminum auto license plates used by that state.

ENGINEERING NEWS

Reported by Paul Johnson and Lucille Burkhardt

Dick Mochlenberg's son received a train for Christmas, making him the 1,089,003rd child to get a train for his father to play with.

Have you seen Paul Johnson's "hot rood" tie? Which reminds me, did you know that all the AWECO members sport gold colored ties with our trademark "The Moulder" hand pointed on them? **Bob Orih** arranged to have them made. The men wear them at trade shows to distinguish themselves from the customers.

Kenny Rohleder is making himself a "HO Gauge Layout". In case you don't follow model railroading that's one of the two popular sizes of model railroads.

Dottie Whitmer cooked her first turkey for Christmas. Having heard that it took 6 hours to prepare, she got up at 4:00 AM and put it on the stove. When she awoke at 8:30 AM the turkey was ready to serve. Dottie managed to keep it moist and warm until dinner time at noon. She collected compliments on it even from her 91-year-old grandmother.

Because **Lloyd Walls** always calls everyone a "rat" **Agnes Grifi** gave him a mouse trap for Christmas. Lloyd wouldn't open the package in the engineering department, but took it home.

In case **Kenny Rohleder** still doesn't know who gave him the dis-ting doll for Christmas, we'll tell it was **Dottie Whitmer**.



When **IAT PENLAND** came to AWECO in 1942 it was to work in assembly. However, since 1946 he has presided over the template room.

Away from the plant IAT uses his time to keep up his garden and home in Clatsop. "The garden" says IAT "is but a small one, about 25' x 75'." But he must be a particularly good gardener for out of seven rows at strawberries his wife canned 100 quarts of fruit.

That may sound like a lot, but the Penlands have 12 living children, and in addition, care for a 3-year-old grandson and a 6-month-old granddaughter; that makes a lot of food.

At the Stag Party held by the Athletic Association December 2, approximately 70 men were present. The party was held in the Kiwanis Club. Entertainment consisted of films on fishing and a Kuchre Tournament. Puchre prizes were awarded to: Bert Biggs, Sam Bushnell, Don Lee, Ed Nelson, Ray Murphy and Bernard Eliasberg.

The refreshments were taken care of by Rev. H. H. Ted Gopp, Luther Camp, Ernie Hearrell, and Clifford Newland.

STEEL SHOP NEWS

Reported by Frank Miles, Paul Kiss, and Louis Casswell

Elmer Byrd went hunting. He came home with 4 rabbits. Three of which he shot, the fourth he killed by hitting it with the gun barrel.

Lynn Bowers had to go home recently. His wife took the oil heating stove apart when it wouldn't work, then had to get help to put it back together again.

Bill Snyder and Ray Good went deer hunting on the Upper Peninsula of Michigan. Bill shot the first day, Ray got his second. Both deer were 8-point bucks. Ray says he kept the steaks for himself and gave the rest of the meat away.

Jay Ivesland's 100-year-old-uncle was on the "This is Your Life" program recently. He is a Civil War vet.

The lunch time topic of conversation is now "Television." Those who have had those who have not a set do an equal amount of talking. Jim Powell, Chuck Kwany, Sam Hearrell, Ernie Hearrell, and Louis Matchett, own sets. The consensus is that the best program on television is still the wrestling matches. This, even though, these same people don't go to wrestling matches at any time.

Eddie and Harlan Byrd have purchased a 93 acre farm north of Syracuse. They now have chickens, a cow, tractor and pigs on the farm.



NATIONAL SAFETY COUNCIL

George Scott, Jr. received an electric train for Christmas. His parents (George Scott, Sr., steel shop) gave it to him. George gets it almost to himself, since he doesn't have a child to play with it.

Alden Lenhard's wife thought he should have a toy for Christmas, so she gave him a toy train.

The beautiful poinsettias that decorated the lobby this year, were awarded to: Bob Berk, Lillian Zimmerman, and June Kounitz.



In his younger days RALPH AUSTIN worked as a rodeo cowboy. He was really proficient as shown off from the roping team to the Spanish Caballero. Now he doesn't dance because of a foot injury sustained when he fell off the roof of a house he was repairing.

Ralph likes to sing and ever since he found out that he could sing better he has been a member of church choirs, glee clubs and similar organizations.

He came here nearly six years ago to work in the shipping department. About a year ago he was transferred in the maintenance group. Ralph says Florida, where he has been working in the U. S. mail service, was just too hot for a native Hoosier.

STOCK ROOM NEWS

Reported by Blanche Ne

Bill Hama has been elected vice president of the South Bend Kennel Club.

Delbert "Pop" Dyer is back working with us after a nine-month furlough.

We were deeply sorry to learn of the death of Herman Fries. He passed away January 11 in Healthwin Hospital.



40 hours a week DON ERNST operates a shop, but the rest of the time he engages in other activities. During the summer he farms; that gets him out-of-doors and close to nature. He has a small workshop in his home at 1616 and Wain Street, Mishawaka. In this shop Don makes power lawn mowers, which he sells under the name "Whirlwind". Most of the lawn mowers are equipped with gasoline engines, but he is making one with an electric motor.

In addition, Don also sells Kristy household cleaners. Naturally Spring and Fall are the most active times for such sales.

FOUNDRY NEWS

Reported by Fred Bishop

A number of displaced people are back in the Foundry again.

Kenny Malin is back as a furnace helper. Wilbur Kinney is back as a utility roofer and still spends his nights hunting coons. George Eckman is back as the Wheelabrator operator.

A newcomer to the foundry is Norris Huff, now an inspector. He formerly worked in the stock room. He has an eagle eye so makes a good inspector.

We lost Curly Humand to the stock room. That guy was always good for at least one belly laugh a day.

Walter Strawick, that golfer from the foundry, did all right for himself at the Foundrymen's picnic. He finished with second low score in the golf match. The prize was an all-leather golf bag. Then he copped the dove prize, a leather bill fold containing a "river".

Wall also entered the casting contest, but his performance wasn't so winning. He wound up and tried to throw the casting plug a mile and a half. He finished up with a "bird's nest" that took him the rest of the afternoon to untangle.

Armando Nieldall took three weeks off for his honeymoon. They drove through Texas, into Mexico, stopped at New Orleans, then back home. The new Mrs. Nieldall was introduced to Nick's friends at a reception held December 10.

The Story of a New Product

How AWECO Developed

Copper Shot

AWECO research engineers have developed a true copper shot abrasive and to have selling it through our regular sales staff. This is another "hit" for us. It means another product added to our line, added income for us, and increased prestige for the Company.

But what's behind all this? Why was this new product developed? Who really did the work? And who buys the product? We'll answer our own questions, one at a time.

Why Was It Developed?

Producers of non-ferrous parts (copper, bronze, brass, and aluminum) have long demanded a special abrasive for their needs. Regular iron abrasive either (1) deposited iron dust on the surface which later rusted, (2) imbedded itself in the soft metal causing subsequent tool breakage, or (3) failed to leave a natural luster and color on non-ferrous parts. Non-ferrous metal shops tried a number of ways to solve their problem, but always met with only limited success.

Why Did AWECO Interest Itself?

About three years ago, at a sales meeting held in Mishawaka the point about non-ferrous metal plants needing a special abrasive was discussed. Our salesmen—who are in the field and know our customers' needs—knew that non-ferrous plants needed a special abrasive to use in their Wheelabrators. Why didn't AWECO do something about it?

Who Did the Work?

Following that meeting C. R. Cline began to investigate the subject of non-ferrous abrasive. Because copper seemed to offer the best solution he tried to locate a source of copper shot. No satisfactory source was found. So, he asked our metallurgist, Tom Hutchinson if he could devise a method of making copper abrasive. (Tom is now with Steel Shot Producers, Inc., manufacturers of the steel shot developed in our laboratory and marketed by us.)

With the help of Virgil Pope, Tom went to work and a practical copper shot was the result. Further testing was carried on by Tom Greene under the supervision of George Menzies and John Strub, of the research department.

Until the middle of January, 1950, all of the copper shot marketed was produced in our laboratory by Virgil Pope and Tom Greene, assisted by Joe Wiesek, Sr. At that time production of copper shot was transferred to the regular factory manufacturing personnel and supervision.

Who Sells It?

The copper shot is sold by our sales and service engineers. The work in the Mishawaka office is handled under the direction of Ann Sawyer, who has charge of the sale of all abrasive marketed by AWECO.

Another Use for Copper Shot?

Copper shot may have another use. R. has been offered to the chemical process industries for use either as a catalyst or to be used in the formation of filter beds.

Every Job is Important at AWECO

THIS JOB combined with YOUR JOB
Produces Quality AWECO Products



Crane Operator

Ray Lytle operates the low crane. He's a man that can pick up a sheet of steel and set it down on a layout table. The crane performs the work easier and relieves men of a back-breaking, accident-prone task.

But it requires a skilled hand on the controls of a crane; to pick up a load and set it down in the precise place. It's an important job, too, for just one bit of carelessness could result in a painful injury to a fellow employee, and damaged material—both of which are needless waste and expense.

