

American PARADE

PUBLISHED FOR AND BY EMPLOYEES OF AMERICAN FOUNDRY EQUIPMENT CO., MISHAWAKA, IN

Ladies and Gentlemen – The Winners!

SIXTEEN suggestion winners emerged victorious from the Suggestion Contest race which closed July 31. Marvalynn Powell was the winner, closely followed by a tie between James K. Davidson and William Shultz. On this and the following page are pictured the winning field with a brief summary of the accepted suggestions.

FIRST PRIZE

Marvalynn Powell

TIED FOR SECOND PRIZE

William Shultz

James K. Davidson

MARVALYNN POWELL

Use 27 x 36" Wheelabrator Tumbblast standard pinion shaft on both rubber belt and standard machines.

Give proper clearance on gear case cover by using shorter drive shaft and drive key way on drive end.

Eliminating flanges on mill motor and reducer rail, for 27 x 36" Wheelabrator Tumbblast V-belt drive.

JAMES K. DAVIDSON

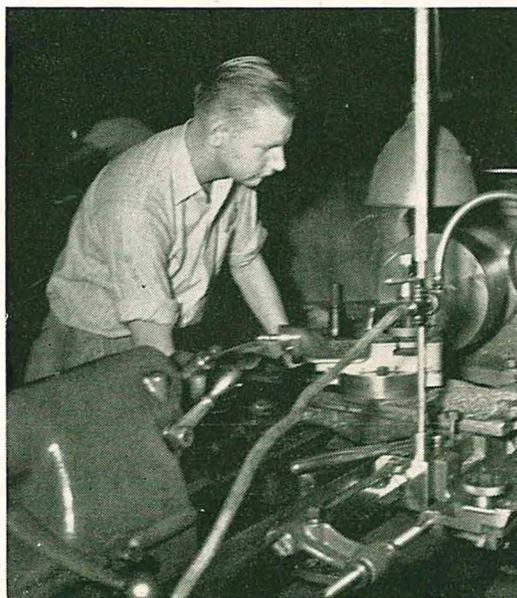
Include current prints of the various standard items regularly used in Engineering Standards Books.

Change outlet vent box on elevator of 20 x 27" Wheelabrator rather than an abrasive trap.

WILLIAM SHULTZ

Weld end pins on front closing plate after machining rather than before machining.

Mount guard on chain drive of impeller grinder.

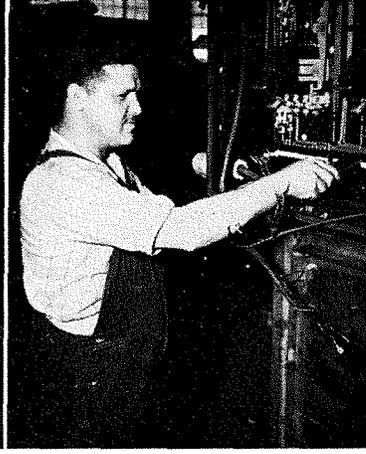


HONORABLE MENTION ★ SUGGESTION CONTEST WINNERS



PAUL MUMBY

Use sliding bar for front closing plate on the 48 x 48" and 48 x 72" Wheelabrator Tumblast.



A. ODLE

Tap brackets supporting the mill drive gear housing for 48 x 72" Wheelabrator Tumblast for 3/8" bolt.



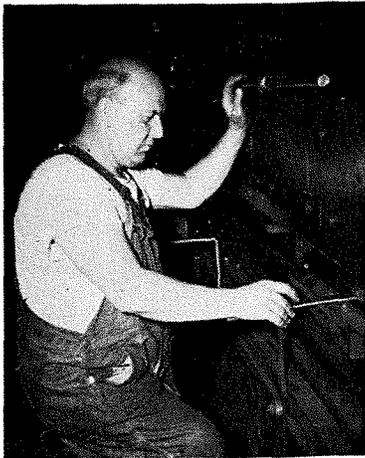
L. SHIDAKER

Change to opposite corners the welded-in bolts in hand hole doors of top back sheet on 48 x 48" Wheelabrator Tumblast.



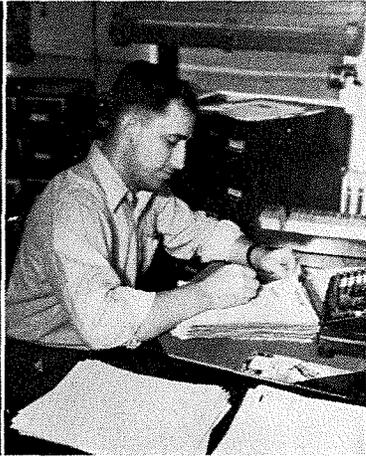
CLYDE L. BURRIS

Use a template with pegs for guides to roll flange sheets for fan casings.



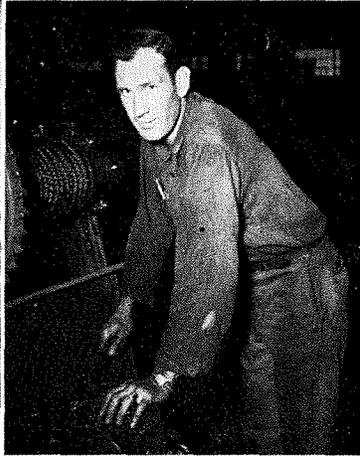
J. E. MINNES

Replace weld at two corners of screen frame for drawer type hopper with 90° bends in the 3/16 x 1 1/4".



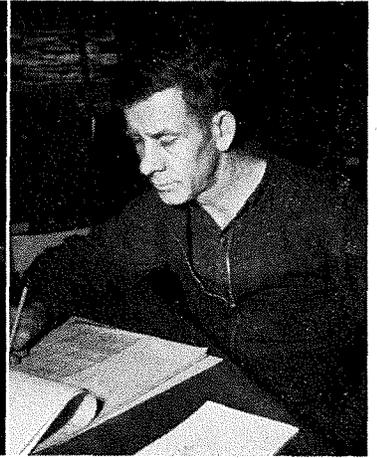
EARL WINSLOW

Give stockroom a complete card file of every part and its location that appears in next year's inventory.



JOHN VAN BELLEGHAM

All bushings be pressed into sheave and wheels in the machine shop before being put into stock.



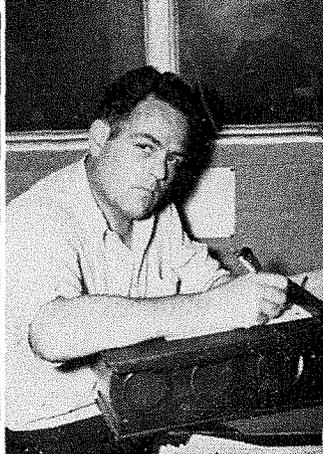
GEORGE SIMMONS

Forms to be filled out in the steel shop and sent to stock room when parts are completed on shop order.



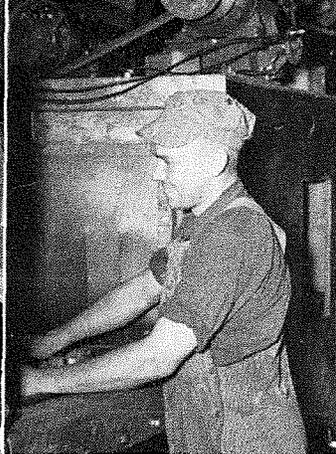
RICHARD KLINE

Use square head bolts rather than countersinking holes on baffle plate and screen of 20 x 27" and 27 x 36" Wheelabrator Tumblast.



E. M. YOUNG

Eliminating cementing holes in rubber belting.



LEWIS CARSWELL

Eliminate angles inside walls of Cabinets.



L. NEDDEAU

Curtains for the welders in north end of the steel shop be made to telescope and fold back out of the way when not in use.



HERMAN FRIES

Tag in every bin in stock room.

You Asked For It— Here It Is

To raise funds for our Servicemen's Gift Fund the Union is sponsoring and underwriting a dance August 28 in the Rose Ballroom. Stan Johns ten piece orchestra will play and plans call for a gala affair.

The Committee is headed by Daniel Miller and aided by Otto Morgan, Ernest Young and John Van Belleghem.

The proceeds from this dance will go into the fund used to send gifts to our men in the armed forces. This being a worthy cause, we are sure all AFECO employees will be there tripping the light fantastic on Saturday night.

★ ★ ★ ★

A Dime Well Spent

The Welfare Association goes quietly on its way extending the helping hand to its members when they are away from work hurt or ill. Your 10c a week comes back to you like bread on the water and at the time most needed—if you haven't joined, better do so now.

FINANCIAL REPORT

Balance on hand, July 1, 1943 . . .	\$ 526.79
Deposited July 16, 1943	621.30
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Total Assets	\$1,148.09
Amount of Benefits	\$379.30
Administration	2.38
Floral Fund	10.00
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Total Disbursements	391.68
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Balance on hand, August 1, 1943	\$ 756.41

To The Ladies



Attractive, thick-lashed, brown eyed Gail Carnefix, layout woman in the machine shop, disproves a couple of the old theories about artists not being practical, and that women, not being adept at mechanical work, have no place in a machine shop

Gail is an artist by profession. She studied at the Chicago Art Institute (her painting, "White Lilies", was hung in the Hoosier Salon) and received her Bachelor of Arts degree from Ball State College at Muncie, Indiana. While in College she also studied mechanical drawing.

Last winter, while teaching art to the students of Washington High School, South Bend, she took two ESMWT courses in engineering at Notre Dame University. When school was out this Spring, she obtained a job in Sam Hearrell's department and is doing an excellent job. If this isn't enough—Gail can also operate a lathe, drill press and the key seater—these she learned to operate after starting to work at AFECO.

This winter she plans to enroll at Temple University, Philadelphia, and work for her Master's degree

Strike - Spare Frames - Handicap

Do you want to bowl? Fun and exercise—even the government encourages it. Just tell Claude Riddle, Mary Brioli, William Snyder, Gene Dickerson, George Dubois or Richard Moore and they'll put your name on the dotted line.

Last year the Athletic Association sponsored a ten pin league at the Rose Alleys and also a mixed duck pin league at Hills Recreation. Again this year the Association will sponsor bowling leagues. Claude Riddle, president of the Association, is very anxious to get an early start on this season's bowling. Come on and see if you can't head the league.



Margie Frisz, left and Marjorie Frazee, right check plans for the recently organized Julianna Club. This club, composed of girls of the office and engineering departments was organized to hold social meetings and help the girls to know each other better.

Anna Marie Frisoni is president, Mary Ann Goheen is social secretary and Dorothy Jane Wiley, "Pat" Greene and Ann Sawyer comprise the board of directors.

P. S. We hope the above picture clears up the confusion between the two girls of such similar names.

The Products You Make . . . and

IT HAS occurred to the editors that an article explaining AFECO equipment and its uses would be appreciated by employees—especially the newer employees who may not be fully acquainted with the machines they are building. For that reason we have written a brief story, as follows, outlining as much information as we felt would be of value to you.

Metal Cleaning Equipment

We build airless blast cleaning equipment (the Wheelabrator); air blast equipment (or sand blast equipment as it is sometimes called); and metal washing equipment.

This is what we call our "bread and butter" line, because it is the field in which we are most active and from which we derive our greatest amount of business. The AFECO line of metal cleaning equipment is the most complete in the industry. No other single manufacturer can supply the wide range of equipment that we do. This gives us an important advantage in selling because it enables us to offer a customer *complete* service with one responsibility.

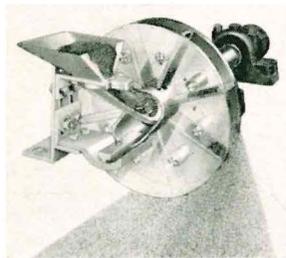


Fig. 1—Phantom view of Wheelabrator.

With the introduction of the Wheelabrator (an AFECO invention) we became the leading factor in the metal cleaning industry. The growth of the company during the past 10 years has been tremendous, as any old-timer can tell you. And there is every indication that the progress of the Company will continue unabated for many years to come.

A comprehensive engineering research program has been underway for many years to develop new products, and new applications for old ones. The results of this research have been very fruitful.

A number of new developments in the blast cleaning field, such as the "peening" of metal parts to reduce fatigue and improve their service life, have already given evidence of great promise. The market for peening equipment has almost endless possibilities and we are very enthusiastic about its potentialities in the post-war period.

Blast Cleaning Equipment

You may ask, "why does metal have to be cleaned?" Briefly, the reason is that surface impurities, such as heat-treat scale or molding sand have to be removed before the metal can be processed effectively.

Let us take a typical product such as a casting produced in a foundry. The mold is made from a pattern which is an exact duplicate of the article to be produced. Into this mold molten metal is poured, filling the cavities in

the mold. The metal is so hot that it usually fuses part of the molding sand to the surface of the metal.

Naturally, an article in this condition would be difficult to paint, enamel and plate. Aside from the difficulty of applying these finishes, it would be next to impossible to get them to adhere.

In addition to preparing the surface of the casting for a protective finish, adhering sand makes machining very difficult and wears out cutting tools rapidly. The same is true of heat-treat scale.

Some metals require heat treatment in order to bring them up to various specifications. In the heat treating process, oxides are formed which deposit themselves upon the surface of the product. This is true of such articles as forgings, springs, valves, bearings, etc. Heat-treat scale is usually very tough and greatly impedes machining. Scale is also formed in the rolling of steel into wire, sheet, plate, etc.

While there are other applications that involve blast cleaning to remove impurities, the foregoing are probably the most common.

The most commonly used types of equipment for removing sand and heat-treat scale from metal products are Tumbling Barrels (where products are tumbled in a special barrel employing steel "stars" to assist in knocking off the impurities); Pickling Tanks (where acids are employed for loosening impurities); Air Blast equipment (in which sand is forced by compressed air through a hose and nozzle upon the work); and Airless Blast equipment (our own Wheelabrator, in which abrasive is hurled upon the work by means of a rapidly rotating bladed wheel.)

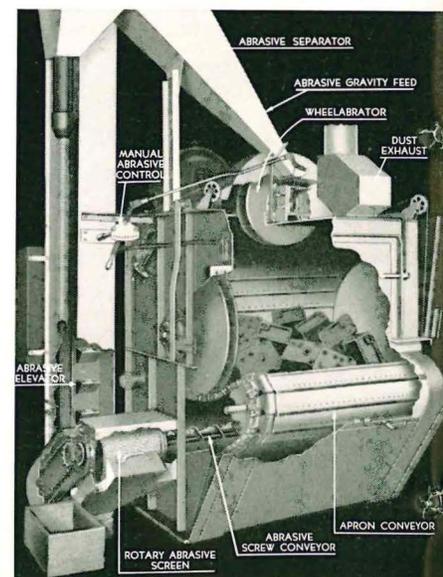


Fig. 2—Phantom view of Wheelabrator Tumbleblast.

Their Use

Each of these equipments is employed today for cleaning metals, but since the advent of the Wheelabrator the other three types of equipment are being rapidly displaced except in special cases where the Wheelabrator, through some special condition, cannot be used.

The airless Wheelabrator has revolutionized the blast cleaning field for various reasons:

First in importance is the fact that the Wheelabrator is much faster in production than other types of cleaning equipment and also because it reduces cleaning costs tremendously; (2) it eliminates the need for compressed air—a very important factor, because compressed air is costly to generate—the Wheelabrator for example, saves as much as 80 % in electric power requirements; (3) it saves expensive floor space; (4) it improves machinability; (5) it increases tool life; and it aids inspection.

Air Blast or Sand Blast equipment is also made by AFECO, principally because it enables us to satisfy certain customers whose production requirements are not sufficient to justify the purchase of Wheelabrator equipment. In a few limited cases Sand Blast equipment is more adaptable than the Wheelabrator, especially where very deep and confined cavities cannot be reached by the blast from a Wheelabrator wheel. On the whole, however, Wheelabrator equipment will do whatever Sand Blast equipment will do and it will do it much faster, cheaper and better.

★ *Airless* ★ **Wheelabrator Equipment**

The Wheelabrator Tumbblast

The cleaning chamber of the Tumbblast is formed by an endless apron conveyor which constantly cascades the parts to be cleaned so that all exposed surfaces are thoroughly presented to the abrasive blast from the Wheelabrator wheel. By reversing the direction of the conveyor, the parts are caused to be spilled from the cleaning chamber into suitable receptacles or conveyors which carry them to the next production operation.

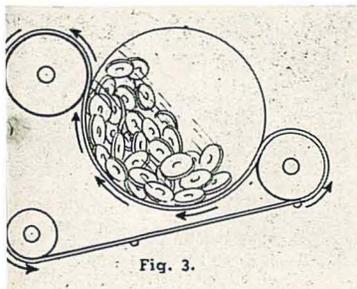


Fig. 3—Diagram of Tumbblast tumbling action.

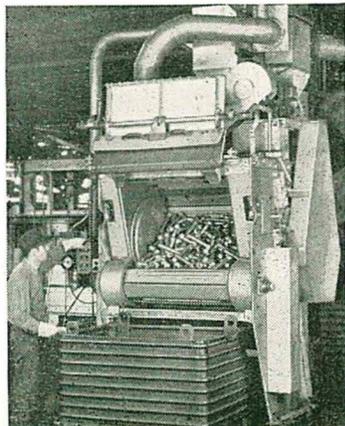


Fig. 4—Typical Wheelabrator Tumbblast installation.

Tumbblasts are what we term "batch-type mills". They are usually recommended for cleaning a wide variety of compact pieces that are sufficiently rugged to stand a gentle tumbling action.

Tumbblasts are made in eight sizes, ranging from one cu. ft. capacity up to and including 53 cu. ft. capacity.

To name only a few of the hundreds upon hundreds of products that are cleaned in Tumbblasts, here are a few: Valves, bearings, machine gun clips, tools, connecting rods, gun parts, piston pins, springs, hardware, pipe fittings, etc.

Wheelabrator Tablasts

Are designed for cleaning flat or fragile work that is not adapted to tumbling, such as stove ware, gears, etc. In the Tumbblast machine, work is placed either on a single rotating table, or on a series of tables which carry the work into the cleaning chamber and beneath the blast stream of the Wheelabrator. After the work has been cleaned on one side, it is usually turned over and passed through the machine again for cleaning on the under side.

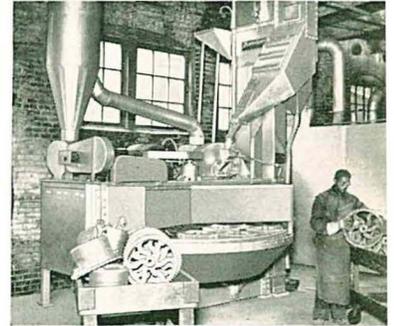


Fig. 5—Typical Wheelabrator Tablast installation.

Wheelabrator Special Cabinets

In some cases work is of such size, shape or weight that it cannot be adapted to a standard machine, such as the Tumbblast or Tablast. In this event, a special machine has to be designed and engineered. Usually this is true of applications where there is a large production of one or a number of items that can be adapted to a single machine, such as steel sheet, tubes, bars, rods, pipe, cylinder blocks, brake drums, axle shafts, bathtubs, armor plate, shells, bombs, etc.

In cleaning work of a special nature, tests are conducted in the Experimental Department to determine the method of conveying the work through the machine and the proper positioning of the Wheelabrator blast units in order to reach all exposed surfaces of the product.

An indication of the importance and popularity of Wheelabrator equipment can be found by glancing at the list of "repeat" users. For example: General Motors uses 141 machines; Ford Motor Co.—93; Curtiss-Wright Corp.—84; Chrysler Corp.—52; International Harvester Co.—46; General Electric Co.—42; Timken Co.—30; Firestone Tire and Rubber Co.—29. In fact more than 275 other plants have from two to ten machines each.

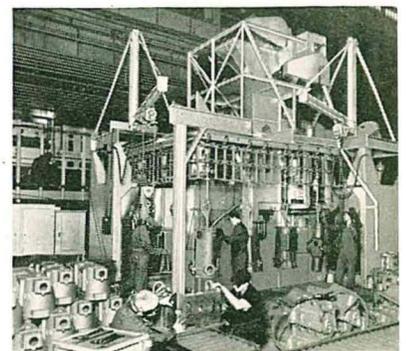


Fig. 6—A Wheelabrator Special Cabinet.

Sandblast Equipment

The Sand Blast Equipment line is composed of Rooms such as those illustrated, wherein the work is introduced to the cleaning chamber either on a car or on a rotating table. The operator usually works inside the cleaning chamber and sprays the work with a blast hose in much the same manner as you would use a garden hose. Small cabinets are also available, in which the operator works outside with his arms projecting through port holes to the interior.

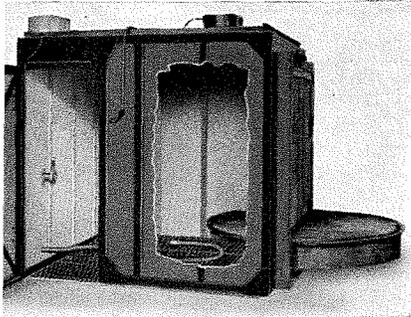


Fig. 7—'Humane' Sand Blast Room.

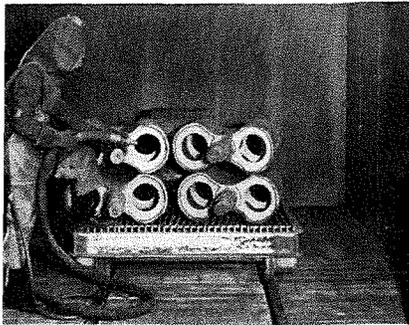


Fig. 8—Interior of a 'Humane' Sand Blast Room showing operator at work.

Also included in the Sand Blast line is a newly developed ceramic sand

cabinet, in which the operator works outside with his arms projecting through port holes to the interior.

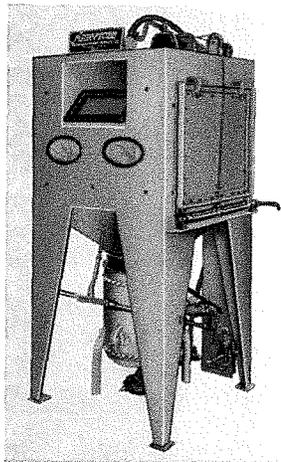


Fig. 9—Type 'K' Pressure Blast Cabinet.

blast nozzle to eliminate the need of expensive alloy steels. The ceramic core is of almost diamond hardness and resists wear to such a degree that the life of the nozzle is extended hundreds of hours.

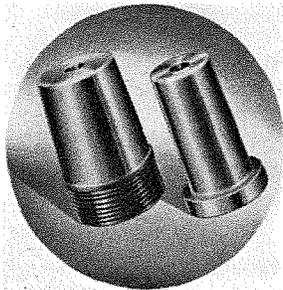


Fig. 10—American Heanium Long Lyfe Blast Nozzles.

Metal Washing Equipment

In other industrial processes, metal products have to be cleaned by washing. An application in this field would be the removal of cutting oil, slushing oil, and drawing compound. While water and steam are used for some washing applications, it is usually necessary to use special solvents.

AFECO entered the metal washing field in the Fall of 1942. Since then our effort has been extended to the design of a number of improved machines, several of which employ operating features and principles developed by AFECO for its blast cleaning line. Among these are the Tumbi-Spray and Tabi-Spray machines illus-

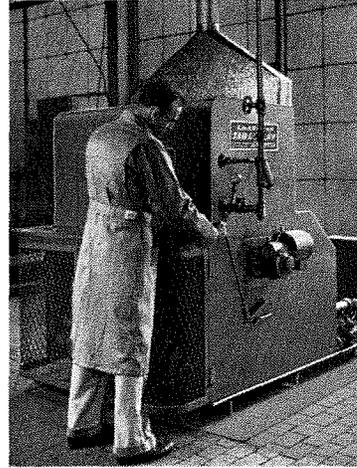


Fig. 11—Tumbi-Spray Metal Washing Machine.

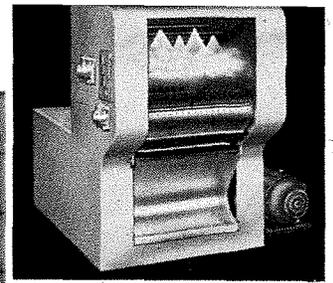


Fig. 12—Tabi-Spray Metal Washing Machine.

trated. A continuous spray machine has also been developed for washing, rinsing and drying miscellaneous work in one continuous operation.

In spite of the short time we have been in this business, a number of orders have already been received and a nice volume of business is being developed. A group of six machines was recently sold to Dodge-Chicago Div. of Chrysler Motor Corp., the largest aircraft factory in the world.

Dust Collecting Equipment

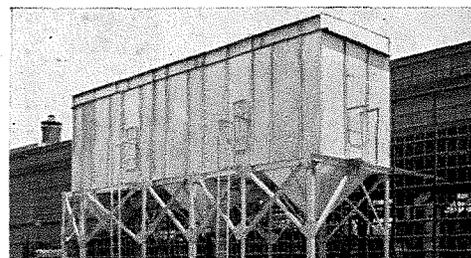
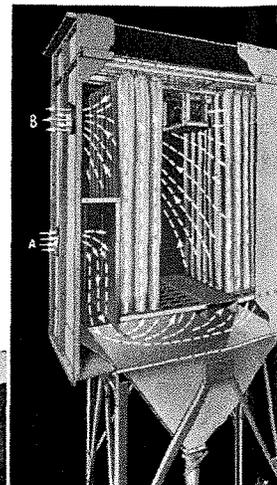
In the processing of many industrial and commercial products, dust is created. In some cases, dust is so valuable that it must be salvaged, in other cases the health of workers is endangered; sometimes dusts are explosive or fire hazards, such as in the collection of grain dust; in other cases dust is detrimental to bearings and the moving parts of machinery.

The dust collecting equipment made by AFECO is highly efficient in operation. It consists of two types: One is a cloth bag type and the other is a cyclone type.

The cloth bag type collector is known as the Dustube. It is pictured in Figures 13 and 14. By referring to the diagram (Fig. 13) you will notice that dirty air passes through the inlet at "A". Here an expansion of air occurs and the air velocity is reduced, causing the heavier particles to immediately drop into the hopper below. The finer particles rise upward into the cloth bags where they are trapped in the fabric, the clean air passing through the fabric into the exhaust pipe at "B".

Fig. 13—Cross-section of Dustube Dust Collector.

Fig. 14—Knocked-down Dustube dust collector installation.



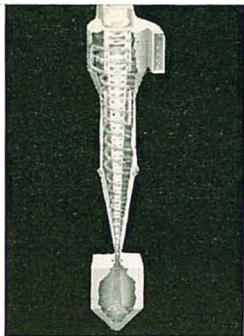
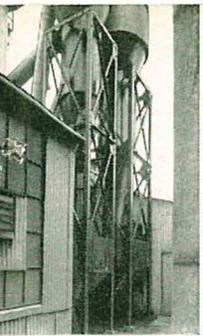


Fig. 15—Typical Cyclone dust collector installation.

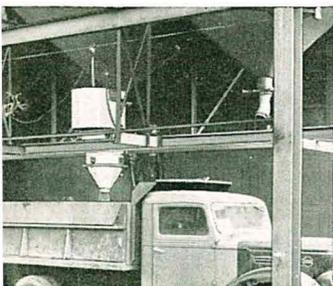
Fig. 16—Cross-section of High Efficiency Cyclone Dust Collector.

The Cyclone Collector, pictured in Fig. 16 derives its collecting efficiency from the fact that the whirling air stream reverses itself at the point of discharge, causing dust particles to drop out.

Usually dust collectors are installed outside and when the hoppers are emptied there is a good possibility that the dust may be dispersed into the atmosphere.

To prevent this we can supply a Wet Disposal Unit which is designed for wetting the dust in such a way that it will be released in the form of a sludge. See Fig. 17.

Fig. 17—Wet Disposal Unit in operation.



Sandcutters

Sandcutters are used for "tempering" molding sand in foundries. To clarify this: After a casting is poured on the floor

of a foundry it is allowed to congeal or solidify until such time as the molding sand (forming the pattern or mold) can be broken away and reused. When this happens the sand is left on the floor in a hot, steamy, dried out condition. Before it can be used again it must be mixed with water and other ingredients to make it suitable to reuse.

The sandcutter accomplishes the mixing, blending and cooling function.

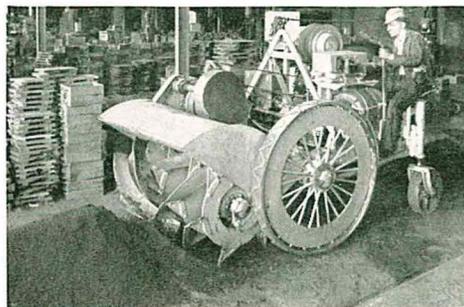


Fig. 18—A Sandcutter in operation.

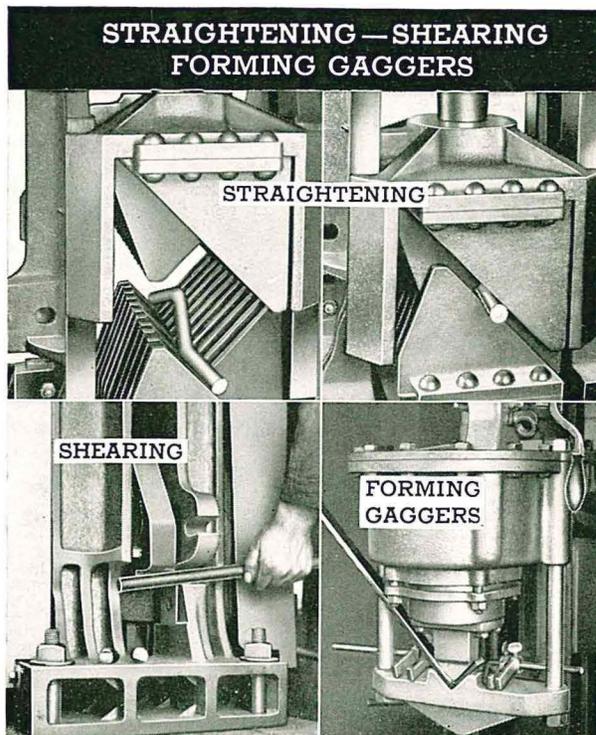
It has a rotating, bladed cylinder that works much like a lawnmower except that it rotates in the opposite direction. The action of the cutting cylinder through the sand tosses it into the air, releasing gases, steam, etc. The action also blends the sand into the consistency desired and leaves the sand in perfect condition. Another function of the Sandcutter is to pile the sand near the molding benches, if this is desired. To do this the Sandcutter is run through the heap, picking up and carrying the sand forward to the desired location.

Core Rod Straightener and Shear

In making molds, molders sometimes use metal supporting fixtures known as core rods and gagers. In many cases these items are twisted and bent to give proper support to the interior structure of the mold. Later, after the mold is broken up, they must be straightened before they can be reused. The Core Rod Straightener accomplishes this by hammering the rod between jaws, as indicated in the illustration. An attachment permits the making of gagers on this machine.



Fig. 19—American scrap saving Rod Straightener.





MACHINE SHOP

Kenny Long

"Ol Bing Crosby" (Sidney Brugh) finally did it after being the father of one, two, three boys; he at long last has a girl. Katherine Mary was born July 16 weighing 6 lbs. and 15 ounces. Both mother, father and baby are doing fine.

* * *

Imagine George Fairchild trying to convince Sam Hearrell that the reason he was a half day late Monday was he had to go take his blood test. Could be, if second childhood counts.

★

HEATER

Virginia Ernst

Ivan Nelson, just back from his vacation, tries to tell us that the fish was so large he broke his brand new rod trying to bring it in. Of course he claims he took a picture, but then the picture could be fixed up to fit the story. Sounds just like a fisherman.

* * *

We're sure Lowell Mast will inform you on how to carry the outboard motor, fish, and other paraphernalia, fall through the pier and not break a leg while making a dash to get in out of the rain. That is probably called "fisherman's luck".

* * *

Mary Chamberlain came back from her vacation in Cleveland with her hair in an upsweep. We wonder what Cleveland has that we haven't?

* * *

June Harrington spent a day at Michigan City and came in on Monday morning with a beautiful sunburn. Ivan Nelson took pity on her and furnished a bottle of soothing ointment, namely vinegar.

* * *

Russell Hutchins came in to the shop one morning happy as a lark. A little later in the morning we learned that he had decided to follow the example set by Bob, one of his best pals. Just before Russ heeded the call of Uncle Sam, he gave Mary Ellen Miller a diamond, so before long we will probably be giving our best wishes to another happy couple.

★

PLANT GUARDS

At the time of this writing one certain guard is spending some time gathering night crawlers. Signs point to the fact he is due for a vacation. Good luck, Lem!

* * *

Indications are that John Foster should have another week of vacation. Something is on his mind, either he didn't get to do what he wanted to do or he did not get done all his wife wanted him to do.

* * *

The guards on the 11-7 shift wish to notify the employees of this Company that acting as body guards is a little out of their line, but are willing to cooperate with those wishing protection. For a small part of their weekly wage we will see them safely to a bus or their car.

EXPERIMENTAL

Paul Bessmer

Did you know that the Experimental Department has a Superman? He can cross a stream with, or without benefit of a bridge, while steering a motorcycle with one hand, and leaning over to bite off young trees with his bare teeth. Name's Virgil Pope.

★

OFFICE

Marjorie Frazee

Jake Schmidt "was in pastel pink silk jersey with white accessories" when he served as best man for his brother-in-law Al VanDenAvyle at Al's marriage to Miss Helen M. Richardson, said the Society editor.

* * *

Harold Brooks is filling a scrap book of clippings received from former employees, Mr. Minich, salesmen, et al on his famous son Charles.

Charles became famous when his picture and story appeared in the South Bend Tribune and was copied by others of the Associated Press, radio stations and commentators. The story concerned Wade Parks' dog "Golden Boy", returned by the Army war dogs "because he was too friendly and it could not be trained out of him". "Golden boy", when uncrated, dashed through the Parks' home on a quick inspection tour, then across the Street to see Chucky, his former inseparable companion.

* * *

Out of the 62 girls in the office and engineering departments—17 girl's names begin with M and 10 with A. Mary with 7 owners and Betty with 6 lead the list of names. There are 5 Margarets, 4 Anns, and 3 girls each sport the names of Dorothy, Jean and Virginia. Only 24 girls have names unduplicated—sometimes it is quite confusing.

* * *

For a very interesting conversation, corner Mary Golba and have her read your palm. She gives you a good story—then deflates you by saying, "I think that's what it means".

* * *

The receptionist chair will be henceforth occupied by Mildred Fore (wife of Bill Fore)—Milly of the charming manner and lovely voice replaces the equally delightful "Pat" Glass who decided to leave us.

MILDRED FORE



STEEL SHOP

Denver Johnson • Bill Simms

After weeks of getting ready for a vacation, Walter Nelson finally slipped up on so many items he will find it hard to live them down.

Walt was in such a hurry last week to tease the little fish that when he arrived at the lake and checked up on equipment and counted the kids, here is what he had left at home:

1. His two-gallon jug of worms.
2. His very much prized spot light.
3. His oldest daughter Joyce.

* * *

Mr. and Mrs. Tom Fisher are the proud parents of Donald Lee, born July 16.

* * *

Mr. and Mrs. Harold Crafton have another bundle from heaven. 8¼ lb. Clark Reed, born July 29. Congratulations to both sets of proud parents.

★

TUMBLAST ASSEMBLY *Ray Hutchins*

Jesse West, diminutive steward is anxious to swap off two of his "big boys" for smaller ones, or what have you?

* * *

Mystery still surrounds the activities of Bill Snyder and Joe Turnock. During the mushroom season they claim to have gathered over 500 mushrooms in one day using a species of animal called a mushroom hound. This dethrones George Dubois, last year's champion, who has reported that his animal of similar type was stolen last winter. The recent purchase of lake property along with unusual activities around the Turnock acreage has aroused great curiosity. What is it this time—a fish hound?

* * *

Everyone is anxious to know the effects of Dan Niller's sudden interest in spiritualism. Perhaps he is searching for the proper line-up for his soft ball team to prevent them from losing any more ball games.

★

VOICE OF ENGINEERING

Alice Chamberlain

Who was more embarrassed, gatemen Ward and Whitmer, or yours truly? When arriving late one morning, the former asked me who I was, asked to see my badge, and wondered who I worked for and if I had had my picture taken yet. These men! They don't seem to recognize a girl when she changes her hair-do.

* * *

Nominated for the most generous grin: C. B. Barnard.

* * *

Our prayers and best wishes go with Ward Correll, who left August 20 for the armed service.

* * *

When Frank Pedrotty returned for a visit recently, he was welcomed heartily by old and new workers alike. Quote he: "After they got rid of a handsome guy like me, they brought in all the pretty girls to brighten up this place!"

Continued on page 14

The Chemistry of a Victory Bond

Prepared for the Treasury Department by

HOWARD A. MARPLE

Monsanto Chemical Company

St. Louis, Missouri

The chemist picked up the crisp new United States War Savings Bond he had so recently purchased. This added another to the ever accumulating number which he, like millions of other citizen-soldiers, was purchasing each pay day.

It was a sturdy bit of bank-note paper measuring no greater than eight by nine inches. Black, red and pale greenish-blue ink imprinted both sides of it. His speculative analytical eye estimated the weight of cellulose in the paper, and the ingredients of the dyes in the inks. All must be of the best, for its maturity date was ten years from the month and year of its purchase.

For the moment his thoughts wandered and he saw the trees of America from which most of its paper was made. He saw the coal, the oil, the iron and all the native elemental mineral deposits of America from which the inks were compounded. This was truly a chemical composite of American raw materials, united by the ingenuity and know-how of Americans.

Yet—and his thoughts returned to the sample in his hand—if he carefully ignited this paper in a weighted crucible, the ash would weigh less than one gram—less than one-thirtieth of an ounce. He thought, "Many of these fundamental, elemental things that are a part of America *can* be destroyed—can be burned to unrecoverable ashes."

The United States of America can be destroyed unless more of these are preserved, are respected as deeds of ownership, purchased and carefully hoarded until that day when America is again safe.

Then the chemist's eyes focused on some small letters and the words slowly became intelligible. "The United States of America For Value Received Promises to Pay . . ." He had that day purchased of *himself* a bit of the elements that make up his country, and then had promised to pay *himself* again. He was a stockholder of his own country. The value to be received was the preservation of freedom to pursue scientific research in a land he loved.

The chemist cheerfully returned to his work of evolving the essentials of war. He had analyzed a Victory Bond and found it chemically pure.

We're Pretty Proud of Ourselves

The Bond quota set for AFECO employees each month is \$19,800 (maturity value) and during July we purchased \$25,656.25—which is \$5,856.25 more in bonds than the quota.

In Memoriam

★ ★ ★ ★



NICHOLAS K. BEYERS

Nicholas K. Beyers, aged 57, for many years shop superintendent of AFECO, passed away on August 2, 1943, after a lingering illness of 9 months.

"Nick" was born in Holland and came to America when he was about two years old. He worked for the Company when it was located in Chicago and moved to Mishawaka with it in 1916.

He was a veteran of World War No. 1, and also a member of Columbian Lodge No. 819, F. & A. M., Chicago, Scottish Rite 32d degree Mason, Valley of South Bend; and the Orak Shrine, Hammond, Indiana.

He is survived by his wife and several brothers and sisters. Funeral services were held August 5 at the Cermak Funeral Home in Chicago. Approximately 28 people from the shop and office attended.

★ ★ ★ ★

HARRY R. BEHNKE

Harry R. Behnke, Asst. Chief Engineer at AFECO since July 1934 passed away on June 29, 1943 after several months' illness.

He was born in Chicago, July 21, 1887, and received his degree in Mechanical Engineering at the Amour Technical Institute, Chicago.

His engineering experience included association with Sherwood Mfg. Co., and Standard Automatic Signal Co., both in Chicago, and he was at one time sanitary engineer for DuPage County, Illinois.

Two of his sons, Roy and Donald, are employed in our experimental department.

He was a member of Trinity Baptist Church, Chicago, and Progressive Lodge No. 954 F. & A. M., Chicago.

Preliminary funeral services were held in the First Methodist Church, Mishawaka, and burial was in Glen Oaks Cemetery, LaGrange, Illinois. Pallbearers at Mishawaka were: James Evans, Roy Guite, Alden Lenhard, Frank Rendal, Clyde Snyder and Chester Unger, all AFECO employees. At LaGrange the pallbearers were: K. H. Barnes, C. B. Barnard, I. G. Case, S. A. Hearrell, H. A. Whitmer and O. E. Zahn, also all AFECO employees.

★ ★ ★ ★



**Alva Firestone
Killed in Action**

For his gallant deeds we pay tribute to one of our boys—Alva Firestone—who made the supreme sacrifice for his country June 22, fighting in North Africa. Alva was a well liked steel shop employee. He was born in Kendallville, Indiana, November 30, 1910.

So It Couldn't Be Done?

Now somebody said that it couldn't be done,
But we, with a chuckle replied,
'That's what you think,' then we put on our slacks
And we buckled right down and we tried.

We've tilled the fields in the summer heat
From dawn till the setting sun;
We've sown the seed, and reaped the grain
And we've made the airplanes run.

We've welded the plates that built the ships
From Oregon to Maine;
We've riveted millions of rivets in,
And we've switched the loaded train.

We've joined the WAVE's, the WAC's and the
SPAR'S

To replace the men for the ranks;
We've learned to use the hammer and saw
And assemble jeeps and tanks.

No, it couldn't be done by a woman, they said
But we've shown them one and all;
We've all pitched right in with a way and a will
And heeded our nation's call.

This grand old place called America
Must forever be free and clean
And we women have just as much at stake
As the soldiers, sailors, or marines.

Yes, it couldn't be done, the cynics said,
We could never stand the gaff,
But we'll just see when this war is done
Who has the last, long laugh.

'Cause we'll still be in there pitching
When the winning whistles blow
And we'll do our share, and a little more
To lick Hitler and Tojo!

Nita Hanna

**Sophie Burkhart
and Clara Hintz**

Sophie Burkhart and Clara Hintz,
We're proud of their selection;
The work may be rough, but they know
their stuff
When it comes to the job of inspection.



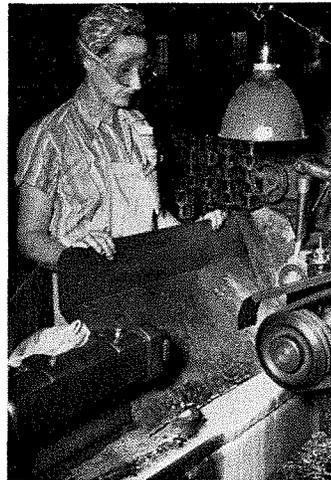
Hazel Pace

In the Steel Shop we find Hazel
Pace,
A determined look upon her
face;
Assembling deflectors is her
"bit"
And she's doing a real swell
job of it.



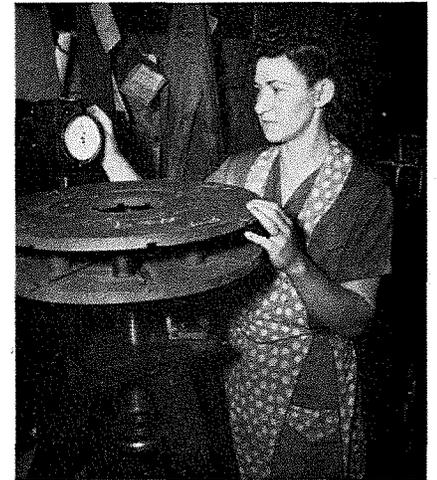
Alice Foley

I've seen lots of guys on the
grinding job,
a lot of different "fellers"
But Alice Foley tops them all
In the grinding of impellers.



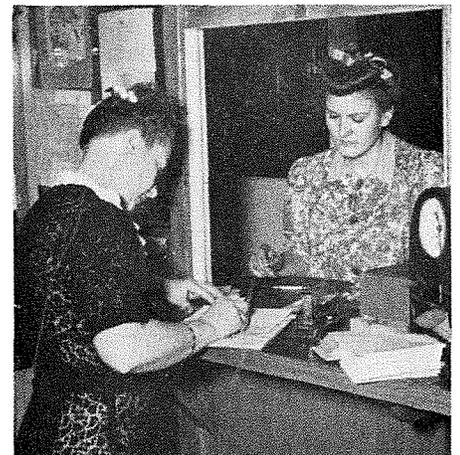
Gladys Warren

Gladys Warren checks a wheel,
To determine the hardness of the steel,
She checks wheels and blades from
morn 'till night;
You can bet your life she does it right.



Gail Carnefix and Irene Grams

Gail Carnefix and Irene Grams,
Their jobs they never shirk;
You know Irene is Production Office
"Queen"
While Gail does the lay-out work.



Onida Weinkauf

Assembling nozzles—one by one,
A lot of work and not much fun.
But she knows what her work is for;
She wants to help us win this war.



Kathryn Hartman

Kathryn Hartman of the drill press line,
She turns out work that is really fine;
She does her bit for Uncle Sam
So the Japs will take "It on the lam!"



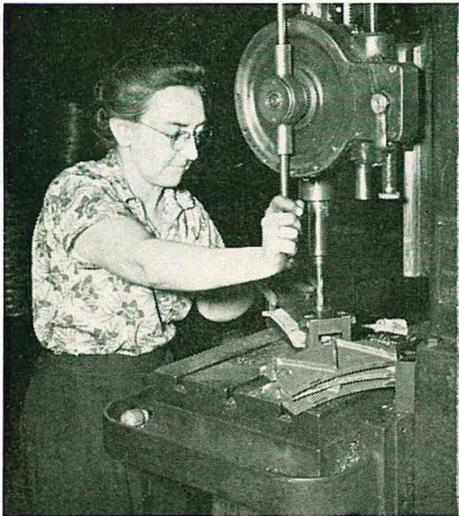
Mary Biesbrauck

Mary Biesbrauck checks stockroom stock,
And checks it good and true;
Mary "checks" O. K. by me,
As I know she will with you.



Adelaide Ritter

Adelaide Ritter drills all day
So those Nazi birds don't come our way;
It's the women like Adelaide
That will make old Hitler "hunt the shade!"



Cora Bolden

At Production Office—Second Trick
It's a pleasure worth your while.
There, Clara Bolden you will meet,
And you'll get Service with a smile.



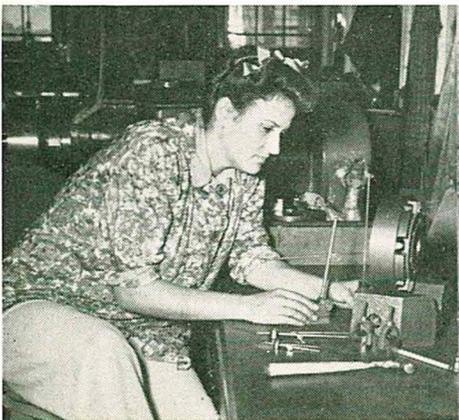
Hattie Young

Hattie is another of the stockroom Crew
That we'd like to introduce to you;
She checks the stock and orders more
She'll take "Ernie's" job when he's at war.



Gail Carnefix

Layout work—as a general rule
Is not the same as teaching school.
But which ever Gail chooses to do
I'll bet she could teach us a thing or two.



Eloise Hutchinson

It takes lots of experimental work
For the war; to help to win it
This picture shows that Eloise
Has her heart right in it.



Evelyn Cole

At her desk and hard at work,
We find the Steel Shop Office Clerk;
There's many tasks for her each day
But Evelyn Cole comes through O. K.



★ American Men in Uniform ★



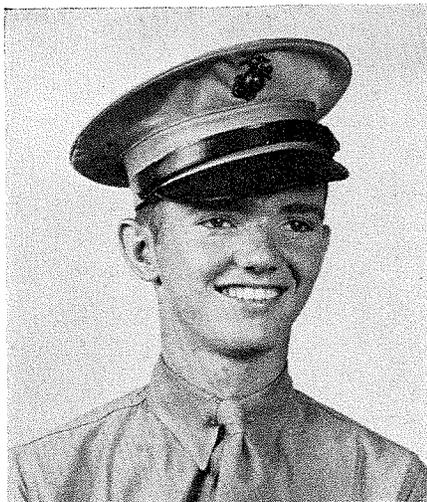
Official U. S. Navy Photograph

CHARLES COLE, JR., F 1/c

Charles Cole, Jr., F 1/C, got all prettied up when he found out that the photographer at the Naval Construction Training Center, near Williamsburg, Va., was going to take a picture of him for the AMERICAN PARADE. But as A SEABEE in training Chuck doesn't get many chances to don his blues. He is one of the "Can Do" boys now and they spend most of their time in work clothes learning to build a Bridge to Victory on Islands "X" all over the world.

Chuck is the first AFECO employee to enter the Fighting Builders. He formerly worked in steel assembly—and now his wife Evelyn works in the steel shop office.

Official U. S. Navy Photograph



★ ★ ★ PVT. ROBERT LEE SPEAR, JR.

Pvt. Bob Spear took his "boot" training at the Marine Base, San Diego, Calif. He won a sharp shooting medal for his ability on the rifle range and also has a medal for being an expert with the bayonet. From "boot" camp he was sent to Camp Kearney Mesa where he took his test for the Air Corps.

From here he was sent to the Naval Air Technical Training Center, Norman, Oklahoma, where he has been attending the Metalsmith School. Bob is keeping his fingers crossed until he finds out whether or not he has qualified for Flight Training.

About Servicemen's Addresses

LAST December we sent with each Parade an up-to-date list of names and addresses of all former AFECO employees now in the armed services. Since addresses change so rapidly many requests have been made for another revised address list.

Unfortunately the War Dept. has requested that this information not be carried in employee publications. However, this office has a complete file of the addresses of all AFECO men in service and we will be glad to furnish these addresses to their friends on request.

If you have lost track of the moves of one of your friends in Service, just write his name on a postcard to the Editor, American Parade, and we will see that you get his most recent address.

What to Write to Servicemen

THE Office of War Information offers these pointers for homefolks writing to soldiers, sailors, and marines—based on suggestions gathered in a survey among servicemen at home and overseas, in cooperation with the Special Service Division of the Army Service Forces:

TELL HIM

1. How the family is doing everything possible to help win the war.
2. How anxious the family is for the boy's return.
3. How well and busy the family is. Give details.
4. How the family is getting along financially.
5. What's doing in the community: news about girls (single) he knows, doings of friends, who's marrying whom, exploits of the home team and other sports events, social doings, effects of the war on the home town. Reminisce a little about past events and places the boy used to visit. Enclose clippings from the home-town paper.

DON'T TELL HIM

1. Your troubles. He has troubles of his own.
2. Your complaints. He can't do anything about them.
3. About things you are deprived of. He can't supply them.
4. Doleful predictions about the future. He's fighting for that future—now.
5. Unnecessary details about financial troubles. If there are things he should know about family finances, and he is in a position to do something about the situation, tell him. But don't string it out.

Additions to the HONOR ROLL

Robert James Brock

Mack H. Carden ★

Curtis Eugene Clemens

Jack W. Ewbank

Otto Schmidt

Russell Hutchins

★ James Feller

Wilbur W. Borden

"I've always been wanting to write you, but have been putting it off and saying I'll write next week. The weeks have gone into months, so I thought I'd better get busy.

"I suppose by now you know that I'm in North Africa—just where, I can't tell. Censors would cut it out anyway.

"Here in the land of Arabs, dust, ants and all the things that go with Africa; it's not so bad. It's a lot more modern than one would think. The French and Spanish are swell to us. We can't understand their lingo and they can't understand ours. That's why we get along so well.

"The weather is swell—all the sunshine you want. Dust too. I've been getting a lot of both; getting to look just like the Arabs.

"I really enjoy the *American Parade*. Feels good to pick it up and see what's going on back at the plant. Also who else has joined the Honor Roll. Quite a few by now, I guess.

"Out here the food is a hell of a lot better than when we first got here. Lost about 15 lbs., but hope to get it back soon.

"Have lots of beer and wine here; but you got to be a native to drink it. Drives you nuts if you drink too much. Nothing like a good cold bottle of Kamm's Light. Would appreciate it if you would send a case or carload hidden in a 48 x 72" Tummyblaster.

"Haven't met anyone from the factory, but I hear there's some around here. Sure hope I run into some of them. Will write again later."

Corp. Casimir Truckowski

* * *

"I hope that I can make you understand the appreciation and gratitude that I have to the Union and the AFECO for so generously remembering me and the other AFECO men now in the armed services. It is such remembrances from our former comrades and employers that gives to us in the service the ole' morale and fighting spirit so necessary for victory.

"Congratulations on your winning the Army-Navy 'E'. You on the home front are doing a superb job. We of the Air Forces will do our damndest to equal that effort on the battlefield when the time comes."

*A/S Eugene L. Hartman, U. S. Army
Air Corps, Fort Hays Kansas
State College, Hays, Kansas*

★ *Excerpts* ★

From Their Letters

"I'm sure I can never express enough thanks or gratitude for the things you have done for me and the help you have given me. You'll never know how happy I am when I receive a package, or mail of any kind from the AFECO, not so much for the contents of the mail (that vacation check really came in handy though) but just to know that you people back home at work think of us fellows in the service. The feeling that runs over me when I receive your gifts and letter is far greater than the gift itself.

"We have a swell place up here (U. S. Naval Aircraft Delivery Unit, Port Columbus, Ohio), nice clean, new barracks, swell officers and excellent liberty. I'm working at Curtiss-Wright plant, inspecting, checking over and working on the planes they are building—the 'Hell-diver' and the 'Seagull'—I'm working the night shift again, but not making quite the same money.

Bill Minnes, AMM 3/C

* * *

Pfc. Delbert Dare is at Seymour Johnson Field, North Carolina, studying to be an aerial-mechanic. His training will last for four months at which time he will be sent to some specialists school or else to some factory school.

* * *

Pfc. Robbin Wall, Air Corps Technical School, Gulfport, Mississippi, received his vacation check just before Army pay day "when it came in handiest". He doesn't know whether it was planned or not, but it did come in at just the right time.

"I would like to say any news I hear from the American Foundry Equipment Co. is always most welcome. You see I am in an outfit composed of mostly Southern boys. There are two other fellows though from Indiana, one from Peru and one from Indianapolis, but nobody from back home, so news from home is rare.

"So you see why I'm always so eager to hear a little news from back home. Especially the fellows I went to school with.

"Well, I'm here in North Africa, have been here for some time, it seems like ages now. We work every day, most Sundays, at least a half day, more often all day. Well it isn't much I've said, but at least you'll know I remember you, and all the rest of my friends back there."

*Pfc. Fred Hawkins—Somewhere
in North Africa*

* * *

"I received your very welcome package last evening. Than you very kindly. The duffle bag was keen and all the boys in the barracks, including myself enjoyed the cookies and candy. We have been having pretty heavy training this week and will be the rest of the month.

*Pvt. Rock McManus,
Camp Bowie, Brownwood, Texas*

* * *

"I received the vacation check today and was certainly surprised upon opening the letter. I should like very much to be back working at AFECO but I believe I am needed more here in the Army right now. I have just graduated from Aircraft Armament school—so my work in the air force will be with machine guns and cannons."

*Pfc. Frank Mobacsek, Timker
Field, Oklahoma City, Oklahoma*

CORP. ROBERT REIHL



Pfc. CLYDE PATTON

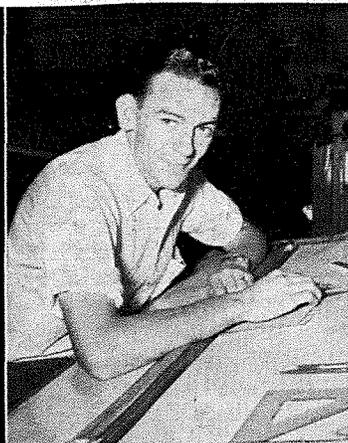


Pvt. ROBERT BARKDULL

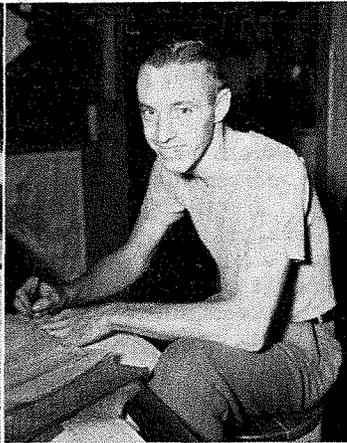




GEORGE THARP
to punch assembly
pers.



KENNETH ROHLEDER
Use stud bolt threaded
on both ends and screwed
into tapped hole in 48"
x 72" tie member frame.



RAY LEUTHOLD
Index on cover of Return
Report Booklets.



HAROLD OUSTERHOUT
Barrel truck



ROBERT SCHALL
Design label for
Almen "A" str
boxes



HOW TO *Clear Up* THOSE PESKY BILLS

When you need a loan come to the AFECO Credit Union for it. You will be treated with the utmost courtesy and your loan will be kept in the strictest confidence. Operated by and for the employees of the American Foundry Equipment Co. you will find that it is the simplest and least expensive method of obtaining money. 1% per month on the unpaid balance is all you pay on your loan. Payments are arranged to suit your convenience.

The following are only a few of the many reasons why you may wish to apply for a loan from the AFECO Credit Union.

Tools

Taxes

Travel

Funerals

Insurance

Education

Legal Bills

Real Estate

Doctor Bills

Dental Bills

Hospital Bills

House Painting

Coal Purchases

Farm Implements

Moving Expenses

Home Furnishings

Consolidating Loans

Home Improvements

★ BITS ABOUT US ★

Continued from Page 8

SHIPPING

Juanita Hanna

Anyone needing assistance with their make-up may call on Joe Velleman, shipping room. During noon hour the other day we found Joe on the loading dock going through the motions of applying rouge, then lipstick and powder. Really girls he has the technique—but we always thought men much better at rubbing cosmetics off.



STOCK ROOM

Robert Gibbens

Chancie Proudfoot would like to find a cowboy to ride the range around his Osceola ranch. His steers just won't behave.



As time draws near for us to part
A little message from our heart,
With lump in throat and tear-dimmed eyes,
We find it hard to say good-bye.

In our crude way we're trying to say
The "gang" all thinks you're swell.
We hope "Lady Luck" don't pass the buck
And the future treats you well.

Friendships like ours should never end,
And when you're thinking of the past
In each of us you have a friend
As long as life shall last.

The above poem was written by the "Bard of the Stockroom" for Agnes Hogoboom and signed by all the workers in the stockroom when she left Friday, August 8.

